

Assessment Report
October 1996- October 1997
for
Diamond Drilling, Trenching, Geochemistry and Geophysics
on the

RECEIVED
DEC 17 1997
Gold Commissioner's Office
VANCOUVER, B.C.

HEARNE HILL PROPERTY

OMINECA MINING DIVISION
BABINE LAKE AREA, B.C.

NTS 93-M-1W

Latitude 55°11'N

Longitude 126°16'W

VOLUME 2 (OF 5)
Trench Logs and Bedrock Geology Data

Claims Involved

Hearne 1, Hearne 3, Hearne 4, Hearne 8, Hearne 9, BB 1 (Group HH 1)
Hearne 1, Hearne 5, BB 2, BB 3, BB 4, Hearne 10, Hearne 11 (Group HH 2)
Hearne 1, Hearne 5, Hearne 7, Cub 200, Cub 300, Hearne 12, Hearne 13 (Group HH 3)
Hearne 1, Hearne 2, Hearne 6, Cub 100 (Group HH 4)
Hearne 2, Hearne 7, Cub 200, Copper 100, Copper 200 (Group HH 4)
Hearne 2, Hearne 7, Cub 200, Copper 100, Copper 200 (Group HH 5)

Owner - Operator

BOOKER GOLD EXPLORATIONS LIMITED
10th Floor - 609 West Hastings St.
Vancouver, B.C. V6B 4W4

by

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Geologist

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Project Geologist

January 03, 1998

25,287

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
	196959	ANDESITIC HORNFELS/RHYODA.	1.5 -2.0m section of light grey, very fine grained and siliceous andesitic hornfels/rhyodacite. The contact is fairly sharp and marked by a change in rock resistance. It breaks in blocky, irregular chunks, heavily FeOx stained. Contact trends to NE.	Cp > py in a dense network of fine stockworks. Less malachite on fractured surfaces and cp occurs as irregular blebs.				718	18	0.4	54
	196960	ALTERED BFP	Same as at 196958. Greater number of c.g. plag. laths.	Propylitic. Plag - epid and calcite. Groundmass shows presence of Chl. Cp > py in dense network of fine stockworks. malachite abundant with cp on FeOx stained fractured surfaces.				2359	60	0.9	47
	196961	ALTERED BFP	Same as above.	Same as above.				1301	26	0.5	30
	196962	ALTERED BFP	Same as above.	Same as above.				3471	257	1.4	34
			=10m downtrench from 196962 is another resistant and hard ridge of andesitic hornfels/Rhyodacite (unsampled). It is the same as in 196959 but with greater amounts of su's.	Su's; py> cp in fine stockworks with large masses of cp found on lightly FeOx stained fractures. Malachite is minor.							

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	S R
	196963	BFP with JARRO/ LIMONITE	Jarrosite-Limonite alteration zone in BFP. 1.5m wide zone where BFP is strongly altered to yellow jarrosite and with 20-40cm wide envelopes of orangey brown limonite. Groundmass and phenocrysts have been strongly altered leaving the rock with no strength. Plag shows characteristic f.g. to m.g. lath shapes but these disintegrate when touched. M.g. black biotite books are only mineral unaltered. This zone produces a deep hollow in the trench as the hoe had no problem digging. Zones approximate	Jarrosite/Limonite/Clay. Plag is white to dull yellow and altered to clay. Groundmass is strongly yellow and rusted and altered to clay. No apparent su's or malachite or azurite.	
			strike/dip is 170°/70° (using right hand rule). The adjacent Andesitic hornfels ridge (uptrench) is untouched by this alteration.		
	196964	ALTERED BFP	Same f.g. to m.g. BFP as previous with groundmass light grey and siliceous on fresh surfaces. At 196967 and 196968, the amount of stockworking has decreased slightly and many are rusted out.	Argillic. Abundant su's, py > cp in dense network of fine stockworks. Cp +/- malachite as blebs and large masses on oxidized fractured surfaces. Plag altered to sericite. Black m.g., biotite is unaltered. Groundmass biotite altered to dull earthy brown	
	196965	ALTERED BFP	Same as above	Same as above	
	196966	ALTERED BFP	Same as above	Same as above	
	196967	ALTERED BFP	Same as above	Same as above	
	196968	ALTERED BFP	Same as above	Same as above	
	196969	ANDESITIC HORNFELS	Light grey, very f.g./aphanitic, hard and siliceous. 0.5 - 1.0m exposed section. Contact is not apparent.	Minor stockworks with py > cp. Fractures show minor coatings of cp +/- malachite	
	196970	ALTERED BFP	Medium grey, f.g. to m.g., inequigranular groundmass supported BFP. White f.g. to m.g., semi-crowded, sub-euhedral altered plag laths(40-50%). Abundant m.g., black biotite books (2-3%). Groundmass is medium grey, very f.g. to aphanitic and mildly siliceous	Argillic. Plag - sericite +/- epid. Groundmass biotite altered to dull earthy brown with some areas richer in chl. Py > cp in stockworks and fine disseminations. Cp +/- py in places. Malachite staining rare on fractured surfaces. Cp as small blebs	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
				on fractured surfaces.							
	196971	ALTERED BFP	Same as above	Same as above				1703	69	0.5	8
	196972	ALTERED BFP	Same as above	Same as above				1548	59	0.7	23
	196973	ALTERED BFP	Same BFP as above but with minor stockworking and less su's. Su mineralization appears to be tailing off.	Argillic. Py > cp in few stockworks, many rusted out. Minor disseminated cp. Fractured surfaces contain very minor fine blebs of cp with no malachite present.				1719	68	0.6	6
	196974	ALTERED BFP	Same as above	Same as above				1260	46	0.6	20
	196975	ALTERED BFP	Same as above	Same as above				797	31	1.5	19
	196976	ALTERED BFP	Same as above	Same as above				736	31	0.5	13
	196977	ALTERED BFP	Darker grey and more siliceous with only occasional fine veinlets rich in grey silica (quartz). Rock still has blocky, irregular fractures and intensely FeOx stained.	Argillic/ Phyllic. Plag - sericite +/- epid. Py >> cp in few veinlets. Minor fine disseminated py in areas between fspars grains. Fractures barren of su's and malachite.				1205	118	0.8	10
	196978	ALTERED BFP	Same as above	Same as above				2150	129	1.4	18
	196979	ALTERED BFP	Same as above	Same as above				1367	42	0.3	10
	196980	ALTERED BFP	Same as above	Same as above				1272	22	0.7	20
	196981	ALTERED BFP	Same as above	Same as above				1114	71	0.3	16

TRENCH:	97-09 (AC # 97-1344)	PROPERTY:	Hearne Hill
LOCATION:	10087W; 9963S	CLAIM # :	Hearne 1
TRENCH:	97-09 (AC # 97-1344)	PROPERTY:	Hearne Hill
LOCATION:	10087 W;9963 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & B.G.
DIRECTION:	180° (N-S)	DATE STARTED:	March 16, 1997
PURPOSE:		DATE COMPLETED:	March 16, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
196955	BFP BRECCIA		Most of the outcrop is masked by heavy FeOx staining and FeOx stained clay rich mud. cm to 0.5m very angular clasts of greyish brown, f.g. to m.g., groundmass supported BFP, clast supported. 40-50% greenish-white f.g. to m.g., sub-hedral altered laths.	BFP clasts are prophyllitic to argillic altered with plag altered to chlorite, calcite and sericite. rock shows large masses of malachite and azurite with cp on fractured surfaces. Cp > py as stockworks and cp on fractured surfaces as blebs and masses.				693	23	0.4	23
			The rock has an irregular, blocky fracture. 1% f.g. black biotite books dispersed throughout. Clasts cemented by carbonate.	Hematite modules and veinlets occur in more competent less brecciated areas. At 196952 there is a 1.5m long exposed chalcocite lined fracture in BFP breccia with abundant malachite and azurite staining on either side. The chalcocite occurs as a f.g. dull black, curvilinear fracture fill ~0.5cm wide. Strikes 74° - 84° and dips 86° to vertical.							
196952	BFP BRECCIA		See above	See above				37149	1030	21.4	49
196953	BFP BRECCIA		Mild grey, mildly bleached f.g. to m.g. groundmass supported altered BFP. Rock has a blocky irregular fracture with fractured surfaces heavily FeOx stained. Plag is white f.g. to m.g. sub to eu-hedral altered plag laths. Biotite is m.g., black books unaltered. Groundmass is a light brownish grey and aphanitic - soft.	Phyllic. Plag altered to sericite. Groundmass biotite ? altered to dull earthy brown. Cp occurs on fractured surfaces with malachite +/- azurite. Py > cp in dense stockworked veinlets. Py rich veinlets oxidized to hematite in many places.				724	31	0.5	6

TRENCH:	97-10 (AC # 97-1494)	PROPERTY:	Hearne Hill
LOCATION:	10225 W; 10000 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & B.G.
DIRECTION:	280° to 300	DATE STARTED:	March 20 1997
PURPOSE:		DATE COMPLETED:	March 22, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Si Ts
	196901	BFP PORPHYRY	BFP/Porphyry. Strongly oxidized (hem./lim.) rusty reddish brown. Fractures into blocky angular sheets typical of granitic rock. Fresh BFP occurs as a medium grey, crowded groundmass supported BFP, plag occurs as white m.g., zoned and	Argillic. Plag - sericite. Biotic unattended. Su's occur as thin blebs and masses on oxidized fractures and as fine py - cp stockworks. In oxidized areas veinlets rich in py are rusted out while cp is lightly tarnished but relatively unchanched.	
			unzoned laths (40-50%). Biotic as f.g. black books, unaltered groundmass is dark grey/black and aphanitic (1-2%). Groundmass shows minor oxidation while plag appears intensely rusted and soft.	Minor malachite occurs with cp on oxidized fractures and occasionally small masses of azurite.	
	196902	BFP PORPHYRY	Same as above	Same as above	
	196903	BFP PORPHYRY	Same as above	Same as above	
	196904	BFP PORPHYRY	Same as above	Same as above	
	196905	BFP PORPHYRY	Same as above	Same as above	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
	196906	ALTERED BFP / AND. HORNF. (RHYO)	Contact. BFP is as described above Andesitic Hornfels (Rhyodacite). Occupies a less resistant portion of trench for 2.0-2.5m. Appears as medium grey, very f.g. to aphanitic, siliceous and hard on fresh surfaces. Oxidized surfaces rusty orange/red/brown	Propylitic? Su's occur as blebs, fine disseminations and masses with abundant cp and malachite occurring on oxidized fractures in hornfels. Cp ≥ malachite with minor py. In BFP, the su's occur as fine stockworks with py > cp and on oxidized				1499	47	0.4	4
			Rocky, has an irregular blocky fracture. Contact dips steeply 80° - 90° and trends roughly NE. BFP can be seen forcing its way into the hornfels (rhyodacite) and stopping cm size xenos into it.	fractures with cp >> py and with malachite.							
	196907	ALTERED BFP	BFP is less crowded and contains white f.g. to c.g., sub - euhedral plag laths (40-50%). Biotic as f.g. to m.g., black books (1-2%). Supported in grey, aphanitic, mildly siliceous aphanitic groundmass.	Propylitic. Su's in fine stockworks with py ≥ cp in small masses and blebs occasionally with azurite. Plag - chl. and sericite. Biotic unaltered.				1691	65	0.5	14
	196908	ALTERED BFP	Same as above	Same as above				1798	75	<0.3	3
	196909	ALTERED BFP	Same as above	Same as above				1216	63	<0.3	8
	196910	ALTERED BFP	Same as above	Same as above				733	24	<0.3	2
			Chalcocite zone. Located approximately half way between sample locations 196910 and 196911. Chalcocite appears as a dull black f.g. mass filling a FeOx fracture 5-8cm wide in propylitic altered BFP.								
	196911	BFP	Dark grey, f.g. to c.g., inequigranular, groundmass supported BFP. Plag as white, f.g. to c.g. subhedral to euhedral laths (30-40%). Biotic as f.g. to m.g. black books (1-2%). Groundmass is a dark grey/black aphanitic and mildly siliceous.	Weak propylitic. Plag is hard with little alteration but with some grains altered to calcite on rims. Some oxidized areas contain axicular boxworks = 1mm in length, and very thin that may represent hornblends that weathered out. Malachite and cp				936	39	0.3	4
				occur on oxidized fractured surfaces as irregular blebs and masses occasionally with azurite. Py and cp occur in fine stockworks and minor disseminations.							
	196912	BFP	Same as above	Same as above				997	45	<0.3	18
	196913	BFP	Same as above	Same as above				1199	113	<0.3	12

TRENCH: 97-11 (AC # 97-1494)
 LOCATION: 9900S; 10250W
 ELEVATION:
 DIRECTION: Strikes NW-SE
 PURPOSE: Trench to existing roads to the northeast

PROPERTY: Hearne Hill
 CLAIM # : Hearne 1
 SAMPLED BY: A.S. & D.M.
 DATE STARTED: March 23 1997
 DATE COMPLETED: March 24 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures Type	Cu Au Ag Mo					
						Az	DIP	ppm	ppb	ppm	ppm
	196916	BFP (Q)	Propylitic alteration	f.g. disseminated Cp & Py in veinlets				1464	64	0.3	14
	196917	BFP (Q)	Same as 196916. Major cleavages	Less Cp in rock, less altered. Quartz veinlets	frac	45	85	189	4	<0.3	16
	196918	BFP	Very dark, propylitic	Cp approximately 0.4%, f.g. diss.	frac	338	88	739	29	0.3	80
	196919	BFP	Quartz augen, mafic composition, typically unaltered		cleav	270	85	282	2	<0.3	40
	196920	BFP	FeOx on outside of all samples. M.g., andesite found in some sections of the trench.	Cp <0.5% in blebs and also f.g. Area is surrounded by frac chalcocitesecondary enriched fractures.	frac	340	85	845	19	0.3	24
	196921	BFP	FeOx on outside of all samples. M.g., andesite found in some sections of the trench	Cp <0.5% in blebs and also f.g. Area is surrounded by frac chalcocitesecondary enriched fractures.	frac	340	85	1250	28	0.05	26
	196922	BFP	With quartz areas and small sections of andesitic hornfels.	Cp in veinlets as stringers, chalcocite present in upper layer b.r. fractures.	cleav	250	65	2392	65	1	113
	196923	BFP	m.g. to c.g. with quartz augens	Malachite (green) on rock surface. Cp f.g. diss. Chalcocite secondary enrichment.				2635	100	0.5	112
	196924	BFP	Little mineralization. Very hard. Strale on outcrop 135° SE. Dark abundant f.g. biotic. Epid in fspars. Intensely fractured	Little Cp				431	8	<0.3	13
	196925	BFP		Older FeOx staining. Malachite and Cp visible	frac	235	80	1870	96	0.5	52
					frac	294	82				
					frac	242	50				
					frac	25	60				
	196926	BFP	In faulted and fractured BFP. C.g., abundant quartz. Fault x-cuts road for 8m. 2-3m NW of #196926, younger, more competent BFP x-cuts older rock	Little mineralization. Cp < 0.5%	cleav	290	75	446	26	<0.3	12
	196927	BFP	f.g. dark, very hard, massive, younger than surrounding rock. Unaltered, fresh propylitic.		cleav	190	89	1093	27	<0.3	11
	196928	BFP	Abundant biotic. f.g. dark, magnetic veinlets. Fresh biotic					393	16	<0.3	16
	196929	BFP	Fractured intensely over 2m section vertical cleavages. Body of younger, more consolidated rock to NW. Between 929 and 930, andesitic hornfels, f.g. siliceous. No good cleavages	FeOx on samples. Chalcocite near top 2m of b.r.				1302	31	0.4	50

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures		
					Type	Az	DIF
	196930	BFP	Strong epid. C.g. large fspar euhedral xtals. Biotic < 10%. 3m down trench from 930 towards 931. 0.5m wide zone of blotchy sheatlike fractured,	Fspars 60-70%. Diss py abundant. Chalcocite in fractures. Propylitic - intermediate argillic; abundant hematite and f.g. dull black; chalcocite as 3-5mm veins occupying fractures. Chalcocite also occurs as f.g., massive dull block coatings lining fractures creating a block-like checkerboard pattern. In a small 10 by 20cm section adjacent to above checkerboard structure, malachite occurs as small 1-2mm blebs with chalcocite. Minor veinlets with py oxidized and cp absent.			
	196931	BFP (ALTERED)	Hematite/Limonite stained (gossanous). Fresh surface are grayish-brown, f.g. to m.g.; inequigranular; groundmass supported and semi-crowded. Plag. as white to light green, f.g. to m.g., anhedral angular shards and subrounded squares to laths (45-60%). Biotic phenos absent. Groundmass is brownish-gray, aphanitic, siliceous and hard. Same as above.	Propylitic - intermediate argillic plag. Calcite/dolomite +/- epid. Groundmass biotic altered to light brown mineral. Groundmass contains several areas containing aphanitic masses of lead-gray to black mineral possibly moly? with no real pattern of mineralization except late stage additions. Py in very fine discontinuous stringers +/- cp. Cp as occasional, very fine disseminations commonly with gray-black mineral. Same as above.			
	196932	BFP (ALTERED)	Same as #196931	Same as # 196931.			
	196933	BFP (ALTERED)	Same as #196931	Same as # 196931.			
	196934	BFP (ALTERED)	Same as #196931	Same as # 196931.			
	196935	BFP (ALTERED)	Same as #196931	Same as # 196931.			
			Sample site #196935 (EOT) 10300W; 9850S. Trench terminates in cobbly colluvium/alluvium adjacent to creek. Cobbles are well-rounded with sand silt and gravel filling				

TRENCH:	97-12 (AC # 97-1494/97-1678)	PROPERTY:	Hearne Hill
LOCATION:	Old pad for DDH96-74 to NW-N along old road	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & K.S.
DIRECTION:	300 NW; 0N	DATE STARTED:	March 24, 1997
PURPOSE:	Expand on zone/find 3rd breccia zone.	DATE COMPLETED:	April 1, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm	
					Type	Az	DIP					
196936	BFP Altered		Trench is gossanous, yellow to reddish brown with a blocky, irregular fracture. Fresh surfaces are light greenish grey, semi-crowded & groundmass supported. 40-50% white, f.g. to m.g. sub-euhedral altered plag. laths.	Propylitic/weak argillic. Plag. sericite (cores) and calcite (rims). Some spar vitaceous with crude albite twinning on a few grains. S.u's occur as fine specks in groundmass and in abundant ≤ 1 mm fine stockworks and discontinuous stringers. No malachite							4	
			<1% block, f.g. subhedral biotite books. Groundmass is light grey-brown aphanitic and siliceous.	or azurite. Py \geq cp \approx 2-3% total sulfides. Approximately 0.4-0.6% cu.				539	8	<0.3		6
196937	BFP Altered		Same as above.	Chalcocite enrichment; dull black, massive plane filling a 5-10cm wide fracture/joint in intensely FeOx stained BFP.				706	20	<0.3		7
196938	BFP Altered		Light-brown limonite oxidized with hacky to planar fracture. Fresh surface is dark-grey, semi-crowded, groundmass supported. 20-30% altered plag.; milky white, f.g. - m.g. anhedral to subhedral, subrounded grains. Few plag. laths showing some zoning with manau vitreous and hard on rims. Some laths appear kinked. 1-2% m/g, black biotite books peppered throughout. Groundmass is dark-grey, aphanitic and siliceous.	Propylitic/weak argillic. Plag. - sericite (cores) and calcite (rims). A few plag grains show crude albite, twin striations on edges. Cp > py in fine stockworks, stringers and fine (<1mm) disseminated strands. Minor malachite on oxidized fractured surfaces. Small 1-3mm wide converging chalcocite line fractures. Chalcocite is a dull black mass lining the fractures and occurs in strongly FeOx stained BFP.				1283	24	0.4		16
196939	BFP		Increase in alteration; plag completely altered to sericite and \approx 1% of plag grains are c.g. (0.5-0.8cm) subhedral laths.	Advanced argillic. Plag - sericite. S.u's as described above but with an increase in malachite as irregular 0.5-1.5cm irregular masses on hem. stained fractures.				676	30	<0.3		8
			Jarosite/FeOx alteration zone. Halfway between 196939 and 196940 (not sampled), 1m wide	Chalcocite enrichment. Chalcocite occurs as dull-black, 0.5-2.5cm irregular planes running along the edges of the alteration zone.				215	86			
								215	90			

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
196940	BFP		As described in 196938 but with less sulphide rich stockwork. 1.5m downtrench towards 196941 is a 2.5m zone with abundant, large 40-80cm angular andesitic hornfels/rhyodacite xenoliths. Xenos are light grey, very f.g. to aphanitic, very hard and siliceous. BFP as finger-like intrusions separating xenos.	Exposed fractures show abundant malachite.				742	11	0.3	16
196941	BFP		Dark grey, semi-crowded. Groundmass supported BFP as described in 196938.	Propylitic. Plag - calcite and chl/epid. Abundant stockwork with cp > py. Strong malachite staining with large azurite masses and disseminated blebs of cp on FeOx stained fractures.				2201	81	0.6	14
196942	BFP		As described in 196938. Very hard and siliceous.	More abundant fine disseminated cp +/- py. Many fractures stained with abundant malachite and 0.5-1.5cm patches of malachite.				1373	68	<0.3	3
196943	BFP		As described in 196938. Rock is very hard and juts out into the trench. Occasional 5-10cm areas containing c.g. (0.8-1.0cm) plag phenos. Many, many plag laths show alteration to a bright pastel green. 1-2% f.g. - m.g., black, biotic books	Advanced argillic. C.g. plag - sericite. M.g. plag - sericite and epidole (pastel green).				1025	80	<0.3	3

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			1.5m downtrench from 196943 towards 196944, 1m wide jarositic alteration zone with chalcocite lining fractures at left and right margins of zone. Zone is recessive with strike/dip: 075/90°	Chalcocite enrichment zone. Chalcocite occurs as dull, black planar masses (1-8mm wide) and stockworks filling fractures. The rock has breccia texture of angular BFP and very f.g. altered andesitic hornfels/rhyodocite. No visible su's, malachite or azurite within the zone. Much of surrounding BFP is bleached and very friable, crumbling with the slightest pressure.							
	196944	BFP	As described in 196938. The BFP is very hard and siliceous, jutting out into the trench. 1-2% biotic - f.g. block books with few grains larger than 1mm.	Propylitic. Plag - calcite and epid. Less stockwork and less visible su's. Abundant malachite staining on FeOx fractures.				1904	93	<0.3	15
	196945	BFP	As described above. Dark-grey, semi-crowded, groundmass supported. Slight increase in plag (40%), f.g.-m.g., sub-hedral laths. 1% biotic, mostly f.g. block books resistant to weathering. Occasional 5-10cm angular andesitic hornfels/rhyodac. xenoliths.	Abundant stockwork veinleys carrying good cp and minor py. Abundant malachite staining to FeOx fractures.				1582	69	<0.3	6
	196946	BFP Altered	Gossanous, irregular fractures. Fractured surfaces have wavy texture with gently undulating leaf-like ridges. Fresh surfaces are greenish grey, inequigranular, f.g. - m.g., groundmass supported. 30-40% semi-crowded, white f.g.-m.g.; subhedral- euhedral altered plag laths and ssquares. 1% f.g. block biotic books. Groundmass is dark-grey, aphanitic and mildly siliceous.	Propylitic. Plag lightly altered to epid +/- calc. Cp = py as fine disseminated blebs in groundmass. Cp, malachite +/- aurite on FeOx fractures. Cp as blebs and blebby masses (2-5mm), white malachite, as 1-2mm specks covering much of fractured surface Minor stockwork with py > cp (some rusty)				183	42	<0.3	<1
	196851	CHALCO-CITE	High grade sample. Chalcocite enrichment. 1m downtrench from 196946 and 196947. Beautifully exposed banded chalcocite plane filling fractures in FeOx stained BFP.	Chalcocite is dull black and massive filling 10-15cm wide curvilinear fracture that pinches and swells.			240	80			
							240	90			

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Str Type
	196947	BFP Altered	Light greenish-grey altered BFP as described in 196946 but with a greater abundance (1-2%) of c.g., subhedral, plag laths and subrounded grains. 35-45% plag, white/light green, f.g. - c.g., dominantly m.g. 1-2% f.g. block biotic books.	Propylitic as 196946. Abundant hem/quartz stockwork with minor su's. No su's or malachite on exposed fractures.	zon
<p>Jarosite alteration zone (not sampled). 2.5m downtrench from 196947 towards 196948. Yellowish-orange to reddish brown sheared looking jarosite.hematite alteration/fracture zone. Zone is 0.5m wide with chalcocite lining small crosscutting fractures and irregular planes mixed with FeOx.</p>					
	196948	BFP Altered	Light-grey, semi-crowded, mostly m/g, inequigranular and groundmass-supported. 40% white plag, f.g. - c.g., anhedral to euhedral laths; most grains milky white, vitreous with crude albite twinning. 1% m.g. block biotic.	Propylitic. plag - calcite. Biotic unaltered. Su's occur as very fine (<1mm) disseminated specks with cp > py. 0.5-1% total sulphides. Minor hematite rich stockwork with no visible sulphides.	zor
<p>Groundmass is light grey, aphanitic, hard and siliceous. The rock outcrops as a lightly oxidized hard mass jutting out into the outcrop for 5m and separating zones of chalcocite enrichment</p>					
	196852	CHALCO-CITE	Chalcocite enrichment. Continued from 196946. High grade sample. On the uptrench side of above BFP (just below the flag for 196947). Chalcocite occurs as a 1.0-12.0cm plane contouring the edge of the hard outcrop with a variable dip.	Chalcocite enrichment. Dull, black massive, 1-12cm wide plane which pinches and swells. There is only minor limonite staining and the plane can be traced continuously across the trench.	
	196949	JARRO-SITE	Jarosite alteration zone. Recessive 1m wide zone containing strong jarosite (yellow) and minor FeOx (reddish-brown) with irregular lenses of chalcocite. Strike/dip: 244°/80°-82°	Chalcocite enrichment. Dull black, massive lenses of chalcocite occurs more in FeOx stained areas and less in bright yellow jarosite rich areas.	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			Trench was terminated 1.5m down from 196949 in same BFP as 196948.	At this location was an exposed fracture showing large (5-10cm) blebby masses of cp +/- py covering 20% of the surface.			244	82			

TRENCH:	97-13 (AC # 97-2145)	PROPERTY:	Hearne Hill
LOCATION:	10150 W; 9950 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	G.W. & D.M.
DIRECTION:	NNW - SSE	DATE STARTED:	April 25, 1997
PURPOSE:	Uncover outcrop below small geochem anomaly	DATE COMPLETED:	April 25, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
	196451	BFP	Fractured m.g., propylitic alteration	Cp on fractures, weakly FeOx on fractures. Fresh biotic. Malachite staining on surface.	frac	100	90	2951	68	1	3
					frac	160	72				
	196452	BFP	5m north of 196451. Similar rock type as before. Few subvertical fractures	Cp on fractures, weakly FeOx on fractures. Fresh biotic. Malachite staining on surface.	frac	265	90	3645	330	1.2	18
					frac	245	80				
	196453	BFP	5m north of 196452. C.g. minor quartz, augens, fresh biotic books	More FeOx than previous material	frac	230	80	1899	67	0.5	24
					frac	112	68				

TRENCH:	97-14 (AC # 97-2145)	PROPERTY:	Hearne Hill
LOCATION:	10125 W; 9980 S	CLAIM # :	Hearne 1
ELEVATION:	1170 m	SAMPLED BY:	G.W. & D.M.
DIRECTION:	NW - SE (Strikes 320°)	DATE STARTED:	April 28, 1997
PURPOSE:	To trench under 0.6% Cu-tilt anomaly DATE COMPLETED: April 28, 1997		

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
196454	BFP		c.g. almost granitic cutting hornfelsed Hazelton volcanics. Within 5m of anomaly, 1.5m of FgMb with well rounded pebbles - transported.	Barren bedrock, heavily FeOx, Cu <<1%. Minor malachite staining along fractures	frac	238	85	1687	36	0.6	13
					frac	30	90				
196455	BFP		Same as 196454					3217	94	0.6	7

TRENCH:	97-15	PROPERTY:	Hearne Hill
LOCATION:	9950 S; 10250 W	CLAIM #:	Hearne 1
ELEVATION:	1080m	SAMPLED BY:	D.M. & K.S.
DIRECTION:	Road strikes 135°	DATE STARTED:	May 4, 1997
PURPOSE:	Sample bedrock below geochem anomaly	DATE COMPLETED:	May 8, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	S T
	196456	BFP	Dark, lots of malic material. M.g. taken from roadside 15m from intersection. Abundant biotic.	Propylitic alteration heavily FeOx on samples. Py f.g. and diss. No visible Cp.	fra fra
	196457	BFP (Q)	Abundant f.g. biotic stockwork	Sulphids Cp and Py f.g. diss.	fra fra
	196458	BFP	Intermediate Argillic	FeOx and malachite staining on surface. Altered numerous veinlets and fractures. Cp in irregular blebs in veinlets and fractures	fra
	196459	BFP	Sampled from 1.8m rock cut. Covered by 0.5m unconsolidated Cv/Mb. Sample taken from 5m east of Gord's sample #QG-1.	Propylitic. Cp in small blebs throughout up to 1cm in diamete. Also some f.g. diss. Cp and Py. Strong FeOx on fractures.	fra
	196460	BFP	Similar to 196459	Malachite staining on surface. FeOx thick accumulation with Mn in dark charcoal black dendritic networks	
	196461	BFP	Siliceous, hard. Fragmental, very angular. Sample taken from rubbly area along a fault. Fractures > 10m wide section.	Cp as blebs along fractures	fra fra

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu	Au	Ag	Mo
					Type	Az	DIP	ppm	ppb	ppm	ppm
	196462	BFP	Massive. Few fractures	Propylitic alteration. Few f.g. diss su's only with malachite staining. FeOx not as strong as other sample points.	frac	200	55	3197	138	0.8	9
					frac	160	70				
	196463	ANDESITIC BFP sampled, hornfels siliceous. HORNFEL Competent not rubbly at surface. S BFP		Propylitic. F.g. dlss. , cp on fracture	frac	80	56	663	16	<0.3	17
					frac	0	70				

TRENCH:	97-16 (AC #97-2418)	PROPERTY:	Hearne Hill
LOCATION:	9850 S;10350 W	CLAIM # :	Hearne 1
ELEVATION:	1080m	SAMPLED BY:	G.W. & K.S.
DIRECTION:	NNW - SSE	DATE STARTED:	May 10, 1997
PURPOSE:	Sample bedrock beneath Cu-till geochem anomaly	DATE COMPLETED:	May 10, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
	196464	DIORITE	c.g. felsic. Fspars 0.2 - 2cm diameter. Plug light grey-green. 70 % fspars < 20% Amphiboles	Intense orange oxidation. Occasional Py & Cp along fractures. Minor diss. Cp up to 0.1 %	frac	30	70	1142	29	<0.3	16
					frac	130	90				
					frac	25	90				
	196465	Diorite	Similar to 196464. Plag. aquablue colour. Occasional samples with 10-20 %Chl.	Cp generally absent. Soft granular black mineral as a weathering product in oxidized samples	frac	120	90	1049	35	<0.3	19
					frac	180	90				
	196466	Diorite	10m from 196465. Intense veining. Biotic black ≤5%	Occasional blebs of Cp << 0.1 %. Charcoal granular black mineral (pyrolusite MnO ₂ - secondary ore of Mn: fernlike markings or dendrites along rock fissures. Cp along fractures with black Mn staining.				2065	58	0.4	32
	196467	BFP DIORITE	Same as 196466 with an increase in biotic (10m from 196466)	Surface rock oxidized. Cp along stringers <<0.1 %. Slightly more Cp, diss in 196468 <0.15 %.				413	7	<0.3	23
	196468	BFP	3m from 196467. Contact between 2 units indistinct. Fresh dark grey. Fspars 70°, 0.1 - 0.3cm diameter	Surface rock oxidized. Cp along stringers <0.1 %. Slightly more Cp, diss in 196468 <0.15 %.	frac	50	90	521	7	<0.3	15
					frac	110	90				
	196469	BFP	10m from and similar to 196468. Fspars slightly clay-seric alteration	Minor diss Cp <0.05 %. 25m from bod intersection. Late-stage dike barren of mineralization.	frac	180	90	1617	46	0.3	1

TRENCH:	97-17 (AC # 97-2418)	PROPERTY:	Hearne Hill
LOCATION:	10300 W; 9960 S	CLAIM #:	Hearne 1
ELEVATION:	1100 m	SAMPLED BY:	D.M.. & K.S.
DIRECTION:	NNW - SSE	DATE STARTED:	May 21, 1997
PURPOSE:	Sample bedrock responsible for geochem anomaly	DATE COMPLETED:	May 21, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
	196470	BFP BOULDER	soft, altered, high grade sample (from new road on switch-back)	Azurite, malachite, carb & Mo in vein 1cm thick. Mo irregular blebs <1cm diameter -calcite fibrous, interlocking laths along fracture. Mo .1-.2 %				7654	247	27.9	387
	196471	ANDESITIC HORNFELS	Light grey-green in colluviated till 0.5 cm thick	Few su's f.g., diss. Cp < 0.1 % Stockwork hornfelsing	frac	330	90	799	32	0.7	10
	196472	BFP	f.g. phenocrysts of secondary Kspar from potassic overprinting	Strong biotization. Little FeOx on surface. Cp visible on fracture surface 0.1 - .02 % Cu				2113	71	0.8	17
	196473	BFP	Same as 472. Strong fracturing of rock	Grade of Cu higher than 472. Manganese dendritic veining downward	frac	337	90	1473	108	< 0.3	6
	196474	QUARTZ DIORITE	C.g. visible quartz augens. Massive in appearance	Py & cp diss. Cu < 0.1 %. Pink hem staining. Biot strongly alt'd to ehl. Higillic alteration seric & epid				3168	139	< 0.3	9
	196475	QUARTZ DIORITE	Similar to 474. C.g. few x-cutting fractures and veinlets	Malachite green staining on surface. Advanced argillic alteration. Seric & epid	vein	45	70	2173	337	0.7	40
	196476	BFP	Barren poor outcrop. Covered by 1m of cv/Mb	Propylitic alteration, fresh. Fresh biotic. Minor fspar -seric				1069	127	0.5	6
	196477	BFP	m.g., crowded, only f.g. diss su's. 1m cover Mb/cv. Sample taken from road bed. Poor outcrop	Minor FeOx on fractures. Trace Cp				1950	61	0.9	14
	196478	ANDESITIC HORNFELS	Few outcrops in surrounding area. 0.5m Cv cover. Magnetic, stock appearance. Abundant veinlets. Below switchback no outcrop >1.5m unconsolidated material. Mb & Cu become thicker downhill & towards creek. No samples taken	Diss. Cp throughout. Potassic/Phyllic alteration. Cu 0.1 - 0.3 %				4663	268	0.7	10

TRENCH:	97-18 (AC #97-2994)	PROPERTY:	Hearne Hill
LOCATION:	185m from 10200 W; 10400 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S.
DIRECTION:		DATE STARTED:	June 17, 1997
PURPOSE:	To map newly exposed bedrock along road	DATE COMPLETED:	June 17, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Stru Type
0	AS-23	ALTERED ANDESITE	fine grained dark grey with finely disseminated py and occasional blebs in fractures	very strong FeOx staining, especially along fracture surfaces dark red opaque < 2mm hem stringers < 0.3% py	
6.5	AS-24	ALTERED ANDESITE	dark grey and fine grained with dark orange FeOx staining	intense FeOx alt'n, often alt'd to clay trace pyrite	frac
14.6	AS-25	BFP	very mushy and altered to clay at the surface approx 50% white to orange 2-4mm subhedral feldspar grains approx 5% hexagonal dark brown biotite crystals BFP outcrops at 12-15m	FeOx weathering small specks of cpy within unalt'd pale grey BFP approx .3-.5% py	frac
20.9	AS-26	ANDESITE	medium grey, medium grained mild veining, mainly hematite DDH-97-115 at 156.8m, begin to walk up hill	pyrite infilling < 1mm veinlets of metallic and dark red hem FeOx staining at surface locally weakly silicified	frac
258.4	AS-27	BFP	1-4mm white feldspar grains, subhedral to euhedral (approx 40-50%) 5% dark brown euhedral biotite grains matrix is mainly fine grained alt'd biotite and clay	feldspars are alt'd to clay locally sericitized trace py splashes of cpy within matrix < .2%	frac
0.8	AS-28	BFP	topoline reset at 5m north of DDH-97-114 BFP is the same as sample AS-27	strongly oxidized and alt'd to clay @ surface trace py	fra
6.5	AS-29	BFP	matrix is predominantly clay and altered feldspars no euhedral biotite crystals	bleached with clay alteration no visible sulfides FeOx weathering at surface and on fracture surfaces	fra

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
15.8	AS-30	DIORITE	medium grey with large quartz and feldspar xtals coarse grained and very hard	very strongly silicified with local FeOx alt'n < 1mm hematite stringers large blebs of cpy (1-2cm)	frac	260	84	1135	97	<0.3	15
21	AS-31	DIORITE	very siliceous with coarse grains hematite and translucent pink quartz stringers throughout occasional dark green chloritized andesite xenoliths	strongly silicified trace py, with rare splashes of cpy FeOx and clay alt'n at surface	frac	320	62	1669	77	<0.3	46
28.1	AS-32	ALTERED BFP	subhedral 1-4mm feldspar grains are alt'd to clay biotites are mainly tan brown and sericitized approx 2-3% dark brown euhedral biotite stop at 8m from sample 196479	weak phyllic alteration FeOx alt'n at surface and in fractures	frac	312	80	369	9	<0.3	8
					frac	18	90				

TRENCH:	97-19 (AC # 97-2994)	PROPERTY:	Hearne Hill
LOCATION:	10194 W; 10036 S (4m towards 035 from DDH-117)	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S.
DIRECTION:		DATE STARTED:	June 15, 1997
PURPOSE:	To log exposed bedrock on new road	DATE COMPLETED:	June 15, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0	AS-11	BFP	highly oxidized, weathered subhedral white feldspar grains approx 40% occasional (~2-3%) euhedral biotite grains groundmass consists of dark greenish grey to brown fg weathered material (alt'd biotite, sericite) contact w/ lg andesite @ 2.5 m	pyrite on fracture surfaces iron oxide alteration				2645	212	0.7	4
5	AS-12	ANDESITE	very soft, mushy, alt'd fg volcanic orange to brown with local purple and white weathering part of sample (1/3) taken from less alt'd andesite @ 2.5m bedrock exposed as alt'd andesite to 6.5m outcrop is not exposed until 15m	no mineralization intense clay & iron oxide alteration less altered material has abundant sulfides (<.5%) w/ malachite				2634	59	<0.3	39
15	AS-13	ALTERED BFP	subhedral 1-4mm feldspar grains 40-50% approx 3-5% hexagonal biotite books dark fg matrix	mild iron oxide staining malachite and < 0.2% py	frac	215	80	595	21	<0.3	5
20	AS-14	ALTERED BFP	similar to above without sulfides and malachite texture is very friable minor amounts of quartz, although grains are not distinct	FeOx alteration barren of sulfides	frac	294	50				
					frac	300	82	589	19	<0.3	5
					frac	60	90				

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm		
					Type	Az	DIP						
25	AS-15	ALTERED BFP	pale grey with orange FeOx weathering white subhedral 1-4mm feldspar grains (40-50%) biotite books make up about 5% of unit minor quartz stringers	occasional sulfides on fracture surfaces, accompanied by malachite FeOx weathering	frac	306	72	1166	22	<0.3	10		
30	AS-16	BFP	unit is less altered with approx 10% quartz texture is slightly more crowded slickensides plunge 30 on frac surface at 297/87	minor amounts of malachite on most fracture surfaces with trace pyrite	frac	25	90	60	70	1178	51	<0.3	5
35	AS-17	ALTERED BFP	dark grey with orangish brown weathering weakly friable with approx 3% dark brown biotite feldspar grains are 1-4mm, orange and soft	feldspar grains are weathered to clay trace pyrite FeOx staining is pervasive	frac	297	87	596	25	<0.3	10		

TRENCH:	97-20	PROPERTY:	Hearne Hill
LOCATION:	10070 W; 10400 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S.
DIRECTION:	Going N along road	DATE STARTED:	June 27, 1997
PURPOSE:	To map the roadside geology	DATE COMPLETED:	June 27, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	St Ty
5	AS-48	QUARTZ DIORITE	coarse grained with strong weathering 50-60% feldspar, 30% quartz and 10% mafics outcrop is exposed from 0 to 10m	Limonite and manganese staining along fracture surfaces approx 2% py	f f
20	AS-49	QUARTZ DIORITE	dark grey, coarse grained, fairly hard approx 30% quartz, 40-50% plag and < 10% mafics, mainly biotite outcrop from 18m to 29.6m	thin < 1mm veins of pyrite strong Fe Ox alt'n, especially along fractures weak clay alt'n at surface	f f
40	AS-50	QUARTZ DIORITE	dark grey, coarse grained with approx 30% quartz, 40% plag, mafics consist mainly of alt'd biotites 1-3mm translucent grey qtz veins	Fe Ox and Mn alt'n in fracture and at surface there is a decrease in the number of sulfides	f f
79	AS-51	ANDESITE	medium to dark greenish grey, aphanitic to fine grained, hornfelsed and very hard	strongly silicified with blebs and wisps of py in microveinlets (<1mm) Fe Ox staining	f
98.7	AS-52	ANDESITE	medium to dark greenish grey, locally brecciated and microfractured	Limonite staining at surface weak clay and hematite alt'n where bxd trace pyrite	f f
113	AS-53	ANDESITE	fine grained, dark grey, very hard, hornfelsed	weakly silicified with minor pyrite	f
131	AS-54	ANDESITE	fine grained, medium grey, strongly silicified with hematite filled fractures	hem & mag occur along fracture surfaces minor pyrite mineralization	f
141	AS-55	ANDESITE	dark grey, fine grained, strongly silicified and hornfelsed texture is fairly massive	Fe Ox alt'n at surface flecks and splashes of pyrite throughout	f

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
172	AS-56	ANDESITE	medium grey with a blueish tinge, fine grained and hornfelsed silicified and fairly massive	silicified with specks of finely disseminated pyrite pyrite is also concentrated along fractures Limonite and Manganese alteration	frac	188	90	57	3	<0.3	<1
182	AS-57	ANDESITE	fine grained, hornfelsed, same as above	pyrite occurs mainly along frac surfaces				109	5	<0.3	1
191	AS-47	ANDESITE	sample taken on previous day fine grained greenish grey					20	1	<0.3	<1
198	AS-58	ALTERED ANDESITE	pale to medium grey, fine grained locally altered to rhyodacite-like rock weak microfracturing	Iron oxide staining				50	2	<0.3	1
335	AS-59	ANDESITE	medium to dark grey, fine grained weathered at the surface, but very hard with approx 5% veining weakly microfractured	strongly silicified with tiny fleck of pyrite disseminated throughout				1130	31	<0.3	5
357	AS-60	BFP	medium grey with approx 60% < 3mm white to grey feldspar porphs, 20% quartz and 2-4% dark brown euhedral biotite grains the contact between the BFP and the Andesite is at 360m with a 30cm BFP dyke @ 363m	clay and sericite alt'n rare flecks of pyrite and trace chalcopyrite	frac	178	60	275	16	<0.3	2
366	AS-61	ANDESITE	medium grey, fine grained with a slightly mottled texture weakly magnetic we stopped at the stream at 383.0m	occasional tiny flecks of pyrite minor amounts of magnetite on fracture surfaces, often associated with the pyrite	frac	66	85	1258	89	0.3	3

TRENCH:	97-21	PROPERTY:	Hearne Hill
LOCATION:	10006 W; 10048 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S.
DIRECTION:	Going N along road	DATE STARTED:	June 29, 1997
PURPOSE:	To map the roadside geology	DATE COMPLETED:	June 29, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
100.5	AS-62	ANDESITE	fine grained, fairly massive and hornfelsed weakly magnetic	iron oxide alt'n at the surface veins consist of wisps of red opaque hematite and pyrite	frac	149	85	63	8	<0.3	1
127.6	AS-63	ANDESITE	fine grained to aphanitic, dark grey and fairly hornfelsed	silicified with trace pyrite				319	9	<0.3	5
141	AS-64	ANDESITE	medium grey, very fine grained, hornfelsed texture is locally weakly mottled, but generally massive	unit is silicified with very finely disseminated pyrite	frac	156	77	150	5	<0.3	2
163.6	AS-65	ANDESITE	very similar to last, but with slightly less pyrite mineralization outcrop is fairly continuous from 140.0 to 164.0m	silicified and hornfelsed	frac	256	84	150	5	<0.3	2
194	AS-66	ANDESITE	fine grained, and hornfelsed texture is fairly massive unit is slightly more mafic than the last sample	iron oxide alteration at the surface finely disseminated pyrite and magnetite	frac	60	70	206	5	<0.3	2
239.2	AS-67	ALTERED DIORITE (aka QBFP)	very coarse grained with subhedral grains approx 60% plag, 30% mafics and 10% quartz	very strong Fe ox weathering and weak Clay alteration pyrite occurs locally along fracture surfaces	frac	71	88	70	5	<0.3	1
					frac	181	78				

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			Gordon's trench TR-01 to TR-06 goes from 284.0 to 310.7m, described as light to med grey QBFP biotite alt'd brown (phyllic) not always present, sometimes black, pyrite is pervasive, no cpy fractures are at 040/30 cutting 070/90, and 085/80								
324	AS-68	ALTERED DIORITE	very coarse grained and strongly weathered approx 70% feldspar, 15% quartz and 15% mafics, mainly biotite in the form of subhedral hexagons	strongly weathered near surface with Ilmonite staining			24	4	<0.3	1	
460	AS-69	ANDESITE	aphanitic to fine grained, strongly hornfelsed approximately 7 m of outcrop exposed	silicified and hornfelsed	frac	50	90	123	4	<0.3	<1
			at 383.2 there is a 1m by 2m outcrop of fine-grained massive grey andesite, possibly a boulder therefore no sample taken Andesite subcrop occurs from 730 to 760m along road								
810.5	AS-70	ANDESITE	Steel grey with a blueish tinge, very fine grained and hornfelsed sample taken across road from DDH-104	strongly silicified			90	5	<0.3	1	
819	AS-71	ANDESITE	dark grey, aphanitic to fine grained, hornfelsed	iron oxide weathering occurs at the surface trace pyrite, no cpy	frac	280	72	153	2	<0.3	<1
			Stop at 819.3m, 10 m before the 9500W line cuts the road		frac	217	86				

TRENCH:	97-22 (AC # 97-3579)	PROPERTY:	Hearne Hill
LOCATION:	Starting at DH 94-07	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S.
DIRECTION:	Heading SE along road	DATE STARTED:	July 7, 1997
PURPOSE:	To map geology of old road	DATE COMPLETED:	July 7, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Si T
0	AS-89	ANDESITE	medium grey, fine grained and very hard weak microfracturing, minimal veining	pyrite mineralization along fracture surfaces Iron and manganese staining throughout locally silicified	fr
11.3	AS-78	ANDESITE	similar to last sample although slightly more silicified and coarser grained	very fine (<2mm) wisps of dark grey and opaque red hematite iron oxide staining along fracture surfaces	fr
83	AS-79	ANDESITE	same as last sample, contact with BFP at 83.4m	trace pyrite	
88	AS-80	BFP	medium grey, with pale orange to white subhedral feldspar crystals (approx 50%) 2-3% dark brown to black biotite (hexagonal books) the matrix consists mainly of very fine mafics with alt'd biotite and <5% quartz contact with andesite at 91.0m	some of the biotites are weakly sericitized and many of the feldspars are altered to clay iron oxide alt'n at surface tr py	
94	AS-81	ALTERED ANDESITE	fine grained to aphanitic, medium grey with a rhodacite blueish tinge strongly silicified and hornfelsed the stake for 9950W 10150s is at 104.2m	pyrite abundance has increased and occurs both along fracture surfaces and in veinlets (<4mm)	fr
130.8	AS-82	ALTERED ANDESITE	fine grained, pale grey with local clay alt'n rhodacite locally strongly microfractured with pyrite and carbonate veins (<3mm) sample taken right across from 9950W, 10175S	pyrite abundance has increased, mainly in veinlets strong oxide alteration (manganese, hematite, jarosite and limonite)	fr

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
149.2	AS-83	ALTERED ANDESITE	fine grained pale grey, fairly massive	weak clay alt'n	frac	180	60	175	9	<0.3	1
			rhyodacite minimal veining, occasional <1mm branching	trace pyrite, as very finely disseminated							
			hematite veinlets	flecks and concentrated along fracture surfaces							
					frac	252	80				
169.1	AS-84	ALTERED ANDESITE	fine grained, very white with local yellow jarrosite	very strong clay alteration with oxide	frac	192	82	23	6	<0.3	2
			rhyodacite and orange limonite staining	staining (iron and manganese)							
			veining consists of translucent grey quartz veinlets	pyrite occurs in veinlets (healed fractures)							
			and white carbonate stringers (<3mm)								
					frac	246	24				
182	AS-85	ANDESITE	dark grey weakly hornfelsed with much less clay	iron oxide alt'n at surface				38	5	<0.3	1
			alteration	silicified							
			fine grained and quite silicious	minimal pyrite mineralisation occurring on fracture surfaces along with Fe and Mn oxides							
196.6	AS-86	ANDESITE	very fine grained, greenish grey, hornfelsed,	silicified				19	1	<0.3	1
			silicified with a very massive texture	occasional blebs and flecks of pyrite							
				branching veinlets of metallic hematite							
223	AS-87	ANDESITE	same as last sample	same as above				19	1	<0.3	1
240	AS-88	ALTERED ANDESITE	fine grained, pale grey with local yellow jarrosite	very strong clay alteration with oxide				72	8	<0.3	1
			rhyodacite and orange limonite staining	staining (iron and manganese)							
			occasional white carbonate stringers	pyrite occurs in veinlets (healed fractures)							

TRENCH:	97-23 (AC # 97-5104)	PROPERTY:	Hearne Hill
LOCATION:	10300 W; 9950 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & G.W.
DIRECTION:	45° towards road	DATE STARTED:	August 30, 1997
PURPOSE:	To map the bedrock in the 1996 anomaly zone	DATE COMPLETED:	August 30, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0	AS-147	BFP	classic BFP with 30-40% euhedral plag xtals, 1-5mm, locally clay altered approx 5% 1-2mm black biotite hexagons contact with QBFP/QTZ DIORITE at 2.0m ls irregular and sharp	weakly silicified, with pervasive Fe ox staining trace pyrite				209	98	<0.3	1
4	AS-148	QUARTZ BFP QUARTZ DIORITE	pale grey with an orange hue approx 10-20% subhedral quartz xtals <4mm; 40% clay altered anhedral feldspar xtals (<3mm); 20-30% mafics highly fractured	pervasive iron oxide staining local chlorite alteration disseminated pyrite	frac	56	86	1178	82	0.4	9

END OF TRENCH at 5.0m

TRENCH:	97-24 (AC # 97-3967)	PROPERTY:	Hearne Hill
LOCATION:	9865 W; 9743 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S., E.O. & G.W.
DIRECTION:	South	DATE STARTED:	July 26, 1997
PURPOSE:	To map geology of new road	DATE COMPLETED:	July 26, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
1	EO-171	ALTERED ANDESITE	From 0 to 2 m: medium grain, light grey with dark grey alteration	Hematite alt'd in wisps, intense Fe oxide staining (jarrosite), py along fct surfaces	frac	20	40	31	6	<0.3	1
3	EO-170	ANDESITE	From 2 to 13 m: fine grain, medium to dark grey, relatively unaltered. Intermediate composition w/ plag crystals.	Locally intense Fe oxide alt'n, inc. jarrosite. Strongly magnetic w/ finely diss'd magnetite.	frac	70	35	138	9	<0.3	13
13	EO-172	ALTERED ANDESITE	From 13 to 35m: fine to medium grain, medium grey w/ local orange to yellow intensely alt'd zones. Pervasive fracturing. Rare plag crystals.	Plag crystals are locally altered to clay. Hematite and chlorite alt'n, as well as strong Fe Oxidation. Py finely disseminated, and generally increases to southwest.				125	8	<0.3	2
24	EO-173	ALTERED ANDESITE	at 13 m altered vein	Highly alt'd, strongly oxidized vein. Intense Fe oxid'n	vn	260	85	118	13	0.6	4
					frac	18	47				
35	EO-174	ALTERED ANDESITE	From 35 to 51m: Bleached andesite, light grey. Similar to other alt'd andesite	Strong Fe oxid'n, magnetite and py along fracture surfaces. Qtz/carbonate in vuggy veins.				218	81	1.5	9
51	AS-114	ALTERED ANDESITE	fine to medium grained, pale grey, with iron oxide alt'n rims at the surface.	strong clay alt'n (kaolinite). Hematite occurs as dark grey metallic specks py occurs in blebs and on fracture surfaces	frac	234	80	173	15	0.9	2
62	AS-113	ALTERED ANDESITE	same as last sample with slightly less clay alteration	same as above	frac	226	80	213	21	0.3	3
					frac	142	64				
73	AS-112	ALTERED ANDESITE	fine grained, white to pale grey very thin (<1mm) stringers of limonite occur throughout	intensely silicified with iron oxide alteration at surface (jarrosite, limonite, hematite)				74	11	0.4	1
83	AS-111	ANDESITE	medium greenish grey, fine grained to aphanitic	chloritized and silicified pyrite occurs in veinlets and on fracture surfaces strong Mn and Fe oxide alt'n at surface	frac	56	90	98	5	<0.3	3
99	AS-110	ANDESITE	pale grey, fine grained fairly strongly fractured	strongly silicified pyrite mineralization occurs in veinlets parallel to fracture orientations Mn ox and Fe ox alt'n at surface and along fracture surfaces	frac	56	90	397	23	0.5	1

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	S T
103	AS-109	ANDESITE	mustard yellow coloured grains are not distinguishable	Intense limonite and Jarrosite alteration unit becomes slightly more silicified from 103 to 109m, with an increase in the number of sulfides	fr
114.8	AS-108	ANDESITE	<i>very fine grained, greenish grey</i> relatively soft with chlorite alteration occasional plag xtal faces are visible (<2mm)	<i>weak iron oxide alt'n throughout</i> trace sulfides	
123.1	AS-107	ANDESITE	fine grained, medium grey, very hard silicified and hornfelsed	limonite staining along fracture surfaces pyrite occurs along fracture surfaces and in small veinlets (<2mm)	fr fr
132.6	AS-106	ANDESITE	fine grained, pale to medium grey	weakly oxidized very fine (<1mm) dark red hematite stringers trace pyrite	fr
139.5	AS-105	ANDESITE	brownish orange in colour and very strongly oxidized; rock is very incompetent	unit is very strongly oxidized with Jarrosite, and limonite staining 1-3mm veins of pyrite	fr fr
143.4	AS-104	BFP	unit is siliceous with remnant biotite crystal shapes, replaced by Fe ox approx 40-50% plagioclase feldspar and locally 1-2% dark brown biotite BFP unit outcrops from 141.0 to 143.9m	oxidized and silicified small specks of metallic hematite occasional flecks of pyrite	
144.5	AS-103	ANDESITE	aphanitic to fine grained, pale to med grey	strong Fe ox and clay alteration; locally very white and silicified pyrite occurs in veinlets and blebs	

TRENCH:	97-25 (AC # 97-4019)	PROPERTY:	Hearne Hill
LOCATION:	10247 W; 10340 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S., E.O. & D.K.
DIRECTION:	5m SE of DDH-122	DATE STARTED:	July 29, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	July 29, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
19	AS-126	BFP	relatively unaltered, with 60% subhedral plag xtals (<4mm), 3% dark brown to black hexagonal biotite xtals	weak sericite alt'n pyrite occurs along fractures				1117	41	<0.3	9
22.5	AS-127	BFP	same as above with slightly more biotite (approx 5%)	pyrite mineralization occurs along fractures and In discontinuous veinlets strong iron oxide				2488	103	0.3	18
23.5	AS-132	ANDESITE	on West side of trench from 23.5 to 26.0: coarse grained, dark grey silicified with 1-4mm calcite stringers throughout	Intensely silicified, with pyrite mineralization and finely disseminated throughout branching hematite stringers weakly magnetic, but no visible magnetite				629	22	<0.3	5
25.5	AS-133	ANDESITE	on West side of trench dark grey, medium grained, similar to above	same as above although a small splash of malachite occurs with pyrite				3248	148	0.8	21
26.5	AS-128	BFP	approximately 60% subhedral plag xtals 3% dark brown euhedral biotites	sericite and weak clay alteration trace pyrite	frac	184	80	269	11	<0.3	15
31	AS-129	BFP	medium grey, slightly altered	weak sericite alteration and slight bleaching no visible sulfides				104	8	<0.3	2
35.5	AS-130	BFP	medium grey, strongly oxidized plag xtals are locally altered to clay	strongly oxidized with specks of pyrite disseminated throughout				2432	736	0.4	19
39.5	AS-131	BFP	very strongly altered and mushy outcrop ends at 39.5m	strongly altered (iron and Manganese oxides) pyrite occurs on fracture surfaces				560	26	<0.3	4

TRENCH:	97-26 (AC # 97-4019/ 97-4086)	PROPERTY:	Hearne Hill
LOCATION:	10165 W; 10225 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S., E.O. & G.W.
DIRECTION:	South along road	DATE STARTED:	July 28, 1997
PURPOSE:	To map the bedrock exposed at depth	DATE COMPLETED:	July 31, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0 - 4	EO-175	ANDESITE	bleached, light to medium grey, locally dark grey, fine grained hornfelsed (very hard) highly magnetic	weathers to an intense orange at surface small hematite stringers locally disseminated magnetite locally chlorite altered finely disseminated pyrite				1263	57	0.4	91
4	EO-176	BFP	grades from andesite to BFP, but BFP occurs only at 4m medium grey with 30% plag, sub to euhedral grains and 1-2% small fresh black biotite crystals	hematite staining finely disseminated py and cpy occurring throughout, some pyrite stringers				2595	146	0.6	61
4	EO-177	ANDESITE	medium grained, medium to dark grey with abundant plag xtal faces (<1mm) hornfelsed (hard)	contains local malachite finely disseminated pyrite				813	41	0.3	32
7.5	EO-178	ANDESITE	medium grained, light to dark grey (locally) plag crystal faces are visible	magnetite and hematite give darker appearance 3-5% finely disseminated pyrite in stringers local malachite staining				2112	66	0.9	73
11	EO-179	ANDESITE	light to medium grey	locally siliceous with orange iron oxides 3-5% finely disseminated pyrite local malachite staining hematite, but no magnetite				3546	94	0.8	89
15.5	EO-180	ANDESITE	deep profile with weathered rock dull yellowish green with red and orange splotches fresh rock at base of profile	relatively fresh rock				1390	37	0.4	55
19	EO-181 19.0m	ANDESITE	medium grained, medium to light grey non magnetic	finely disseminated pyrite throughout more intense pyrite and malachite locally occurring on fracture surfaces intense Manganese oxide staining				2082	25	0.5	49
21	EO-182	ANDESITE	very similar to above no outcrop from 21 to 24m	similar to above				1153	28	0.3	12

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
25 - 26.5	EO-191	ANDESITE	light to medium grey, locally darker when occurring with abundant hematite magnetic plag crystal faces from 26.5 to 50.5, sediment cover, except for bedrock at 47m	mild chloritization finely disseminated throughout (3-4%)				1047	26	0.4	33
47	EO-190	BFP	50% euhedral plag crystals, clay altered 5-10% biotite, relatively fresh crowded texture	malachite and pyrite occur on fracture surfaces				1125	35	<0.3	6
51.5	EO-189	BFP	highly oxidized and weathered	thin veinlets of pyrite and hematite stringers				761	19	<0.3	25
56	EO-188	BFP	40% plag porphs, clay altered light grey matrix contact with andesite at 56.0m	sericite and clay alteration blebs of pyrite				802	25	<0.3	27
57	EO-186	ALTERED ANDESITE	very light white (bleached) to medium grey (aka rhyodacite), weathers to a greyish-maroon fine to medium grained, plag crystal faces hard - hornfelsed contact with BFP at 64.0m	some silica alteration, local mild chlorite alteration hematite and pyrite on fracture surfaces				710	20	<0.3	8
64	AS-125	BFP	strongly bleached with porphyritic textures becoming less distinct	iron oxide alteration at surface. Minor pyrite mineralization				918	29	<0.3	16
68	AS-124	BFP	same as last sample with occasional pyrite veinlets and calcite stringers	hematite occurs as branching wisps pyrite occurs in veinlets a small splash of cpy occurs at 68.0m				2352	102	0.6	16
71.5	AS-123	BFP	strongly bleached approximately 70% white subhedral plagioclase crystals (mostly altered to clay and sericite), crowded texture	clay and sericite alteration pyrite mineralization occurs as specks throughout iron oxide alteration near surface				472	17	<0.3	5
77	AS-122	BFP	weakly bleached approximately 60-70% plag crystals biotite grains are 1-2mm in diameter	strong Fe ox alteration no visible sulfides calcite and quartz veins locally bear pyrite				1678	76	0.3	13
82	AS-121	BFP	similar to above, slightly more crowded texture; less altered	same as above	frac	340	90	892	32	<0.3	17

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	SI T
86.5	AS-120	BFP	medium grey with approx 50% subhedral to euhedral plag crystals; 3% dark brown to black hexagonal biotites contact with andesite at 86.5m	trace pyrite non magnetic	
93	AS-119	ANDESITE	aphanitic to fine grained, pale grey weakly magnetic bedrock is not exposed from 93.0 to 105.0m	Pyrite and hematite occur in very fine veinlets, which appear to be fracture controlled	
107.5	AS-118	ANDESITE	aphanitic to fine grained, dark grey weakly hornfelsed	Fe and Mn oxide staining pyrite, hematite and trace cpy	fr
112	AS-117	ANDESITE	pale to medium grey, fine grained hornfelsed (hard) strong fracture orientations	Fe oxide alteration at surface pyrite and cpy occur along fracture surfaces occasional hematite stringers	fr
117	AS-116	ANDESITE	pale grey, fine grained and very siliceous	Fe oxide alteration at surface occasional pyrite specks	fr
121	EO-185	ANDESITE	greyish white, fine to medium grained bleached'	trace cpy and malachite staining weakly silicified hematite staining and local stringers weak Fe ox and local mild chlorite alteration approx 3-5% pyrite	fr
126	EO-184	ALTERED ANDESITE	mottled grey with white to mainly white medium grained	very intense weathering (iron oxides) relatively siliceous throughout (hard) at least 10% pyrite on fracture, in veinlets and disseminated	
130	EO-183	ALTERED ANDESITE	same as above from 130 to 133m: highly weathered unconsolidated bedrock	same as last sample, but with occasional blebs of pyrite and cpy	

Metreage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
138	AS-163	FELSIC INTRUSIVE	mottled, dark intrusive	pyrite rich veinlets				79	5	<0.3	2
148	AS-162	FELSIC INTRUSIVE	coarse grained intrusive; mainly plag with 5-10% mafics (hematite and altered biotite)	strongly weathered (Ilmonite and hematite)				60	1	<0.3	11
162	AS-161	FELSIC INTRUSIVE	same as above	same as above				53	<1	<0.3	8
168	AS-160	ANDESITE	brownish grey, aphanitic hornfelsed (very hard) from 168.0 to 175 unit becomes darker grey strongly hornfelsed with occasional plag xtal faces	locally intensely weathered generally silicified with pyrite occurring along fracture surfaces	frac	170	85	60	<1	<0.3	2
178	AS-159	FELSIC INTRUSIVE	same unit as AS-162 although finer grained mainly plag with 5-10% mafics	weakly oxidized				28	<1	<0.3	4
184	AS-158	FELSIC INTRUSIVE	same as above	weak Fe ox alteration with pyrite veinlets				101	3	<0.3	1
188	AS-157	BFP	pale grey to white 'bleached' biotite grains are barely visible and porphyritic textures are locally obliterated contact with andesite at 189.5m	very oxidized and clay altered pyrite mineralization is very strong 5-10% (in blebs and along fracture surfaces)	frac	168	90	124	11	<0.3	1
193	AS-156	ANDESITE	very mushy, clay, iron and manganese oxide altered unit grades into BFP at approximately	intense Fe, Mn oxide and clay alteration no visible pyrite				105	12	<0.3	<1
198	AS-155	BFP	pale grey to white, with local obliteration of porphyritic texture contact with andesite at approx 202.0m	weakly silicified, strongly bleached small speck of Azurite, abundant pyrite associated with fracture surfaces strong Mn and Fe oxide staining at surface				198	17	<0.3	1
204	AS-154	ALTERED ANDESITE	fine grained to aphanitic, pale grey to white	very intensely silicified hematite, jarosite, Ilmonite and clay alteration pyrite occurs along fracture surfaces				12	2	<0.3	1
209.5	AS-153	ALTERED ANDESITE	fine grained to aphanitic, pale grey bleached with 'rhodacite' appearance	white clay (kaolinite) alteration strong Mn and Fe oxide staining small splash of Azurite within fracture surface				27	1	<0.3	1

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
215	AS-152	ALTERED ANDESITE	pale grey, very strongly silicified unit is locally altered to clay w/ 'rhyodacite' appearance	Fe oxide staining at the surface strong pyrite mineralization, mainly along fractures and in veinlets				17	3	<0.3	3
221	AS-151	ANDESITE	medium grey, aphanitic fairly massive texture	very strongly silicified, with abundant pyrite very intense limonite with some jarosite weathering at surface above till layer				8	3	<0.3	4
227	AS-150	ANDESITE	same as above from 233.0 to 243.0 unit is darker with less pyrite (5%) and micro hematite veinlets	similar to above, but very pyrite rich				19	6	<0.3	2
248	97-GW-18	ANDESITE	light to medium grey	disseminated pyrite and pyrite along fractures	frac	100	90	21	6	<0.3	<1
258	97-GW-17	ANDESITE	intensely fractured dark grey-purple, silicified	trace cpy associated with pyrite silicified with chlorite rim around sulfides	frac	180	85	104	19	<0.3	1
268	97-GW-16	ALTERED ANDESITE	sections with purple colouring have very small <.2cm feldspar phyrics	local epidote replacement of feldspars minor jarosite alteration generally hard and silicified with pyrite occurring along fractures				11	13	0.3	2
278	97-GW-15	ALTERED ANDESITE	medium to dark grey, fine grained hornfelsed rhyodacite' appearance from 279.9 to 285.0m: unit is alt'd andesite, moderate to highly bleached/ clay altered silicified only locally, very light, very soft mainly clay alteration, mild chlorite alteration	intense Fe and Mn oxide staining along fracture surfaces pyrite is smeared along fracture surfaces and within veinlets minor hematite staining/ chlorite alteration				44	10	<0.3	2
285	EO-206	ANDESITE	moderate to very siliceous	silicified with abundant pyrite hematite staining cpy (?) on fracture surfaces				25	6	<0.3	1
288	EO-205	ALTERED ANDESITE	highly altered, less dense 'rhyodacite'	trace pyrite Fe ox staining				37	6	<0.3	1
298	EO-204	ANDESITE	medium grey, moderately siliceous	orange limonite oxidation on fracture surfaces	frac	300	70	59	10	<0.3	1

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			dominant fracture planes	approx 1% pyrite							
301	EO-203	ALTERED ANDESITE	very fine grained light blue-grey	moderately siliceous with finely disseminated pyrite (locally 5-7%) pyrite also occurs in veinlets and on fracture surfaces				22	14	<0.3	1
308	EO-202	ANDESITE	white to medium grey, fine grained	partially siliceous trace to 1% pyrite chlorite alteration				64	18	<0.3	2
319	EO-201	ANDESITE	siliceous, fine grained, locally 'rhyodacite' white to medium grey - typically light grey	1-4% pyrite in stringers and blebs (also concentrated on fracture surfaces) white rock is generally more siliceous and is weathered more to limonite/jarosite and other oxides; trace chlorite and hematite all'n	frac	347	90	14	7	<0.3	1
326	EO-200	ANDESITE	same as above	same as above with approx 2% pyrite and local clay alteration	frac	292	80	33	15	<0.3	1

END OF TRENCH at 328.0m

TRENCH:	97-27 (AC # 97-4109)	PROPERTY:	Hearne Hill
LOCATION:	50m @ 125° from 1022 W; 10200 S (Chapman Trench)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	G.W.
DIRECTION:		DATE STARTED:	July 31, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	July 31, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Str Typ
0 - 2	97-GW- 10	ANDESITE	hornfelsed and siliceous	intensely silicified, massive CPY along fractures abundant veinlets blebs of CPY and bornite	
2.0 - 5		BFP	dark grey 50% .2-.5cm feldspar < 10% .1cm euhedral black biotite		
5.0 - 15	97-GW- 11	ANDESITE	similar to above, light grey	siliceous finely disseminated CPY and pyrite occasional stringers of cpy	
15 - 20	97-GW- 12	BRECCIA	classic intensely mineralized Chapman breccia		
20	97-GW- 13	BFP/Fragm ental BRECCIA	at approx 20m grades into unit	intensely weathered, Fe ox malachite staining is pervasive intense clay, sericite, alteration, bleached white	
30 - 35	97-GW- 14	ANDESITE	fine grained, dark grey, country rocks	no sulfides hard	
			from 35-55m overburden: sample TR- 47 (Mb) TR-48 (Cb)		
			end of trench at approx 55m		

TRENCH:	97-28 (AC # 97-4245)	PROPERTY:	Hearne Hill
LOCATION:	10126W; 10502	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & J.W.
DIRECTION:	SE, up main road	DATE STARTED:	August 1, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 1, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm	
					Type	Az	DIP					
0	AS-164	ANDESITE	medium grey, aphanitic strongly hornfelsed	silicified and hornfelsed pyrite occurs along fracture surfaces				178	4	<0.3	3	
7	AS-165	ANDESITE	white to pale grey hornfelsed with occasional carbonate filled vugs	strongly silicified with iron oxide (jarrosite, limonite) and weak clay alteration pyrite is less abundant than the last sample	frac	248	90	40	7	<0.3	2	
13	AS-166	ANDESITE	medium grey, aphanitic weakly fractured throughout	very strongly silicified with iron oxide alteration near surface pyrite occurs as blebs and as smears along fracture surfaces	frac	252	80	371	8	<0.3	2	
20	AS-167	ANDESITE	pale to medium grey, aphanitic weakly fractured throughout	strongly silicified with pyrite and iron oxides along fracture surfaces occasional specks and blebs of pyrite	frac	300	75	182	8	<0.3	1	
27	AS-168	ANDESITE	aphanitic, greenish grey and intensely silicified	silicified with strong iron and manganese oxide staining increase in pyrite content, occurring mainly along fractures				232	6	<0.3	2	
33.5	AS-169	ANDESITE	fine grained to aphanitic, medium grey with a strong fracture pattern	silicified with strong iron and manganese oxide staining pyrite occurs along fractures	frac	342	90	157	4	<0.3	2	
40	AS-170	ANDESITE	fine grained and strongly altered locally mushy	intense jarrosite, limonite, and clay (kaolinite) alteration pyrite is visible along fracture surfaces				28	9	<0.3	2	
47	AS-171	ANDESITE	pale grey, aphanitic strongly fractured with preferred orientations	very strongly silicified with Fe ox alt'n on fracture surfaces pyrite abundance has decreased pyrite and hematite occur as blebs and smears along fracture surfaces	frac	225	90	331	14	<0.3	2	
52	AS-172	ANDESITE	pale grey, aphanitic highly fractured	intensely silicified hematite and pyrite occur in veinlets	frac	140	70	248	149	6	<0.3	3
65	AS-173	ANDESITE	aphanitic to fine grained strongly microfractured	very strongly silicified local Fe ox and clay alteration blebs of pyrite occur throughout, with local concentrations on fracture surfaces				250	16	<0.3	1	
73	AS-174	ANDESITE	aphanitic, medium grey weakly fractured	strongly silicified with Fe ox alt'n on fracture surfaces blebs of pyrite and specks of metallic hematite occur throughout				266	11	<0.3	3	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
83	AS-175	ANDESITE	aphanitic to fine grained, greenish grey very hard from 85 to 95m, outcrop is much deeper with very fine silty overburden, as opposed to till and glacial sediments as before	very strong Manganese oxide staining hematite and minor pyrite mineralization pyrite abundance has decreased	frac	310	70	59	4	<0.3	<1
97	AS-176	ANDESITE	fine grained, and weakly hornfelsed	slightly less silicified than above strong iron oxide alteration (mainly limonite) less pyrite, only occasional specks	frac	290	90	221	5	0.6	1
109	AS-177	ANDESITE	fine grained, dark grey minor calcite veining (<2mm)	weakly silicified, weakly chloritized occasional specks of hematite blebs of pyrite and a CPY splash	frac	254	84	117	2	0.7	<1

END OF TRENCH AT 109.0m

TRENCH:	97-29 (AC # 97-4245/97-4319)	PROPERTY:	Hearne Hill
LOCATION:	10303 W; 10344 S - Road N of second switchback	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & G.W.
DIRECTION:	SE	DATE STARTED:	August 1, 1997
PURPOSE:	To map the bedrock	DATE COMPLETED:	August 6, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0 - 10	97-GW-19	BFP	dark grey, where fresh approx 60% .2-.6 cm feldspar, clay alt'd 5-10% black euhedral biotites <.3cm contact with andesite ls sharp and fragmental	highly oxidized and mushy tr disseminated pyrite sections with disseminated pyrite, up to 5% pyrite smeared along fracture surfaces				266	5	<0.3	3
10	97-GW-20	ANDESITE	medium grey, fine grained stockwork veining sections with purple hue (hematite)	carb, hematite and pyrite veining minor pyrite smearing along fracture surfaces	frac	347	63	573	11	0.3	6
24	97-GW-21	ANDESITE	similar to above, fine grained, medium grey with purple hue	small carb globules near veinlets minor pyrite				274	4	0.3	3
26	AS-201	ANDESITE	fine grained, pale grey to white contact with BFP at 30m	strongly altered with Fe ox and Mn ox weathering pyrite occurs in fractures	frac	26	58	300	8	<0.3	6
31	AS-202	BFP	strongly altered with approx 50-60% feldspar porphs, generally altered to clay and 1-2% hexagonal biotite grains (<2mm) locally altered to limonite	intense iron oxide and clay alteration very fine (<1mm) hematite stringers throughout no sulfides are visible				299	12	<0.3	10
35.5	AS-203	BFP	same as above	same as above				657	22	<0.3	20
41	AS-204	ANDESITE	pale grey to orange with intense Fe ox alteration highly fractured	strong hematite and limonite alteration				113	6	<0.3	2
49	AS-205	ANDESITE	very strongly altered as above, with intense fracturing mushy rock	Fe ox alteration	frac	325	60	93	9	<0.3	1

END OF TRENCH at 54.0m

TRENCH:	97-30 (AC # 97-4245)	PROPERTY:	Hearne Hill
LOCATION:	10069 W; 10118 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & J.W.
DIRECTION:	SE	DATE STARTED:	August 2, 1997
PURPOSE:	To determine if there is a breccia zone above the old camp	DATE COMPLETED:	August 2, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Str Typ
7.5	AS-178	ANDESITE	dark grey, very fine grained, hornfelsed occasional very thin (<1mm) white calcite veinlets	small veinlets of red hematite Iron oxide alteration at surface cpy and py occur as splashes and along fracture surfaces	
10	AS-179	ANDESITE	similar to last sample although unit becomes more alt'd w/ clay, hem, limonite and weak jarrosite unit is fairly strongly microfractured there is a large (<1m) boulder with abundant cpy flecks at 14.0; there is no continuous outcrop from 10.5m to 17.0m	pyrite occurs along fractures occasional specks of CPY, slightly less than last sample a tiny speck of molybdenum is visible	
20	AS-180	BRECCIA	strongly brecciated with small sections and clasts of strongly bleached BFP unit outcrops from 17.0m to 22.0m	specks of hematite throughout strong clay alteration irregular pyrite veinlets throughout no visible cpy	
24	AS-181	ALTERED ANDESITE	pale to medium grey, locally sil'd locally clay alt'd unit is weakly fractured throughout feldspar crystal faces are visible no outcrop is exposed from 25 to 30m	pyrite and cpy occur along fractures small specks of metallic hematite iron oxide alt'n at surface	
30	AS-182	ALTERED ANDESITE	similar to last sample	increased iron oxide alteration pyrite is mineralized on fracture surfaces no visible cpy	fra fra
34	AS-183	ANDESITE	dark grey, aphanitic, hornfelsed and strongly silicified fine <1mm calcite veinlets weakly magnetic, although no visible magnetite no outcrop exposure from 36 to 49m	pyrite and cpy splashes red hematite stringers throughout, locally rimmed with limonite very strongly silicified	

TRENCH:	97-31 (AC # 97-4319)	PROPERTY:	Hearne Hill
LOCATION:	10207 W; 10443 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & M.S.
DIRECTION:	SE up main road	DATE STARTED:	August 6, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 6, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
2	AS-190	ANDESITE	white, fine grained strongly fractured throughout same unit from 0 to 8m no outcrop is exposed from 8.0 to 19.0m	silicified with strong Fe ox alteration at surface blebs of red opaque hematite pyrite occurs along fractures				33	7	0.3	9
19	AS-191	ANDESITE	white, fine grained rock is fairly incompetent and locally mushy	silicified with limonite, weak jarosite and Manganese oxide staining	frac	42	85	44	6	<0.3	1
25	AS-192	ANDESITE	similar to above, but slightly harder (more silicified) strongly fractured	silicified with local clay alteration limonite stained	frac	126	70	7	5	<0.3	3
30	AS-193	ALTERED ANDESITE	pale to medium grey, fine grained veining consists of very fine (<3mm) quartz and calcite veins strongly microfractured with pyrite Infilling cracks no outcrop from 31 to 37.0m	strong Fe and Mn oxide alteration pyrite occurs as thin veinlets and along fracture surfaces	frac	62	56	69	9	<0.3	1
37.5	AS-194	ALTERED ANDESITE	strongly altered rock locally very mushy and incompetent	strongly altered (clay, limonite and hematite) minor branching hematite veinlets (<2mm) no visible sulfides	frac	232	84	36	7	<0.3	1
44.5	AS-195	ALTERED ANDESITE	similar to above very strongly microfractured no outcrop occurs from 47 to 50m	strong Mn and Fe oxide alteration trace pyrite and metallic hematite mineralization	frac	138	60	244	80	53	6 <0.3 <1
55	AS-196	BFP	strongly clay altered, very pale grey to orange in colour 1-2% dark brown to black biotite 50-60 % clay altered plag crystals contact with andesite at 58.5m	Iron oxide alteration throughout no visible sulfides	frac	348	72	108	18	<0.3	2
62	AS-197	ANDESITE	dark grey, aphanitic to fine grained	strongly silicified				32	8	<0.3	<1

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			abundant fractures, often filled with pyrite	red opaque hematite stringers throughout							
			minor calcite veining	very fine <2mm pyrite veinlets							
70	AS-198	ALTERED ANDESITE	med grey, fine grained	intense limonite and jarosite alteration			32	2	<0.3		2
			intensely microfractured calcite veining is minimal	locally silicified with minor hematite stringers							
79	AS-199	ALTERED ANDESITE	same as above	very weathered as above			47	3	<0.3		1
			contact with BFP at 79.0m								
80	AS-200	BFP	bleached with sericite and clay alteration	weak limonite alteration throughout	frac	154	62	17	2	<0.3	1
			approximately 60% plag (generally altered to clay)	pervasive sericite and clay alteration							
			1-2% dark hexagonal biotite occurs locally								
					frac	322	50				
			END OF TRENCH at 83.3m								

TRENCH:	97-32 (AC # 97-4319)	PROPERTY:	Heame Hill
LOCATION:	10027 W; 10520 S	CLAIM # :	Heame 1
ELEVATION:		SAMPLED BY:	A.S. & A.S.
DIRECTION:	N along road	DATE STARTED:	August 8, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 8, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	St. Typ
0	AS-206	FELDSPAR PORPHYRY	groundmass is pale grey, translucent and very strongly silicified approximately 20-30% white, 1-4mm anhedral plag porphs (generally altered to clay)	intensely silicified iron oxide staining occurs at the surface occasional flecks of hematite	fra fra
10	AS-207	FELDSPAR PORPHYRY	pale grey with an aphanitic groundmass 20% subhedral to anhedral plag porphs (clay altered) contact with andesite at 14.0m	weakly silicified iron oxide alteration at the surface no visible sulfides	fra fra
20	AS-208	ANDESITE	medium grey, very fine grained very fine calcite stringers, locally bearing pyrite	very strong Mn and Fe oxide staining, especially along fracture surfaces pyrite occurs within very fine calcite stringers chlorite and clay alteration	fra fra
30	AS-209	ANDESITE	medium grey, very fine grained weakly hornfelsed	similar to above with slightly more chlorite alteration occasional blebs of pyrite and trace cpy	fra
40	AS-210	ANDESITE	medium grey, very fine grained very fine calcite veinlets (<2mm)	chlorite and clay alteration occasional blebs of hematite pyrite occurs along fracture surfaces	fra
50	AS-211	ANDESITE	very fine grained, greenish grey	pervasively silicified with chlorite and local clay alteration iron oxide staining on fracture surfaces	fra fra
60	AS-212	ANDESITE	dark greenish grey, fine grained locally tuffaceous with <1cm shaped clasts no outcrop is exposed from 65 to	strongly chloritized strongly magnetic with abundant hematite both dark grey metallic and shiny dark fuschia purple specks trace pyrite	fra
100	AS-216	FELDSPAR PORPHYRY	strongly silicified, pale grey 10-20% white subhedral plag porphs in an aphanitic groundmass unit is continuous from 98.0m to 103.0m	intense silicification abundant pyrite strong Fe oxide staining at surface	fra
110	AS-217	DIORITE	medium grey, medium grained with approx	chloritized and very magnetic	fra

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu	Au	Ag	Mo
					Type	AZ	DIP	ppm	ppb	ppm	ppm
			75% plag, 15% mafics, and 10% quartz short sections of chloritized occur from 109 to 116.0m. Xenoliths of diorite can be seen floating in andesitic matrix	abundant pyrite metallic hematite throughout							
120	AS-218	DIORITE	same as above	pyrite occurs as veinlets parallel to fracture planes local iron oxide staining between grains and on fracture surfaces manganese staining occurs at the surface	frac	340	80	218	43	0.3	2
					frac	82	85				
130	AS-219	DIORITE	medium to dark grey, medium mainly plag (80%) with 15% mafics and 5% quartz very strongly magnetic	weak chlorite and local epidote alteration iron oxide alteration at the surface specks of pyrite and metallic hematite	frac	83	82	43	4	<0.3	<1
					frac	342	83				
END OF TRENCH at 130.0m											

TRENCH:	97-33 (AC # 97-4381)	PROPERTY:	Hearne Hill
LOCATION:	10190 W; 9830 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & E.O.
DIRECTION:	N	DATE STARTED:	August 12, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 12, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0 - 38.5		BFP									
1	AS-213	BFP	approx 50% subhedral plag xtals (1-5mm) fine grained medium grey matrix with 1-2% dark brown to black hexagonal <2mm biotite xtals	strongly oxidized with pervasive limonite staining throughout no visible sulfides	frac	300	85	1075	31	<0.3	15
8.5	AS-214	BFP	same as above; slightly less competent	same as above with pecks of metallic hematite	frac	300	80	816	13	<0.3	18
17	AS-215	BFP	same as above	same as above with a splash of malachite along fracture surface	frac	216	74				
25	AS-220	BFP	medium grey with approx 50% white subhedral 1-5mm plag xtals; 5-10% quartz; 1% hexagonal <2mm biotite xtals unit is mushy and strongly altered from 25 to 37m	strong iron oxide staining along fracture surfaces forming alteration rims weakly silicified throughout	frac	188	90	290	4	<0.3	14
37	AS-221	BFP	medium grey, with decreased quartz content (<3%) approx 50-60% plag with a fine grained a very mushy irregular contact with diorite occurs at approx 38.5m	weakly silicified with strong iron oxide alt'n throughout pyrite occurs along fractures feldspar grains are weakly alt'd to clay	frac	128	90				
38.5-65		QUARTZ DIORITE									
45	EO-218			Py along fractures				934	41	0.4	4
47		QUARTZ DIORITE	Very fresh rock visible biotite, qtz, hornblende and feldspar					466	12	<0.3	12
49.5	EO-217	QUARTZ DIORITE		Malachite along fractures. locally				507	7	<0.3	26

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
50-50.5		QUARTZ DIORITE	Clay alt'd and silicified								
51	EO-216	QUARTZ DIORITE	Very hard, hornfelsed	Malachite on fractures			1063	21	<0.3	15	
53				Weathered clay alt'd veinlet		68	225				
58	EO-215	QUARTZ DIORITE	Coarse grain 40% feldspar, 15-20% qtz, remainder mafics	tarnished py or possibly cpy 0.5-1% py disseminated and in stringers			412	10	<0.3	4	
61		QUARTZ DIORITE		Local hmt flecks Minor chl/epi alt'n along fractures							
63	EO-214	QUARTZ DIORITE	Same as above	Fe oxid'n on surfaces only 1-2% finely disseminated py tr. malachite on frct surfaces			214	8	<0.3	7	
65	EO-213	QUARTZ DIORITE	Same as above, slightly finer grain	same as above			335	10	<0.3	22	
69-71			Highly alt'd/weathered	Strong, pervasive Fe oxid'n throughout							
71	EO-212	QUARTZ DIORITE	25% qtz, 30% clay alt'd feldspar and alt'd mafics	Mushy and crumbly. 5% finely disseminated py			766	48	0.4	11	

End of trench at 71m

TRENCH:	97-34 (AC # 97-4381/97-4583)	PROPERTY:	Heame Hill
LOCATION:	10011 W; 10034 S - connector road through upper Bland zone	CLAIM # :	Heame 1
ELEVATION:	N	SAMPLED BY:	A.S. & E.O.
DIRECTION:	To define the surface expression of the Bland Zone along the road	DATE STARTED:	August 12, 1997
PURPOSE:		DATE COMPLETED:	August 13, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	St Ty
0-2		OVER-BURDEN			
2-10.5	EO-219	WEATHERED	white-gray 'bleached'. Highly fractured.	pervasive, intense iron oxide & manganese staining	
7		ANDESITE	Fine grain	highly weathered; slightly silicified occasional hematite specks, magnetite veinlets malachite along fract, 0.5 % Cpy, 1-2% py blebs	
12	EO-220	ANDESITE	From 10.5-16.5m: fine grain to aphinitic white-gray	moderately silicified local hematite, tr. chlorite Finely disseminated py (1%) and cpy (0.5%)	
16.5-39.5		OVER-BURDEN			
40	EO-221	ANDESITE	From 39.5 - 72m: Pale gray to off-white Fine grain to aphinitic qtz stockwork (cross-cutting veinlets)	siliceous, minor hematite py and cpy are finely disseminated orange Fe oxid'n along fractures	
45.5	EO-222	ANDESITE	Light gray, fine grain weakly hornfelsed	very siliceous hmt stringers more cpy than py, finely disseminated & along fract	
51	EO-223	ANDESITE	medium to light whitish-gray aphinitic to fine grain	very siliceous, hmt stringers malachite on fractures, 0.75% cpy and 1% py on fractures and fine disseminations Strong Fe oxid'n	
56				strong malachite staining	fr:
61	EO-224	ANDESITE	Fine grain weakly hornfelsed	mildly siliceous, tr. chl alt'n Rare malachite py (0.75%) and cpy (0.5%) along fractures	
62-65		ANDESITE	Heavily fractured zone		fr: fr:
65-67		ANDESITE	Fine grain to aphinitic	Very siliceous, hornfelsed	
66	EO-225			Py 3% veinlets and finely disseminated; cpy 0.25% finely disseminated	
67-70		ANDESITE	Fine grain to aphinitic	Heavy py along fractures; cpy 0.5% Locally weakly chloritized, abundant hmt on fract	
70.5	EO-226	ANDESITE	Medium gray, fine grain Less fractured	Weakly hornfelsed and siliceous Abundant hmt, rare chl alt'n Less mineralized than above	
72-73	EO-227	CRACKLE BRECCIA	Highly weathered breccia vuggy texture	Intense jarosite abundant py	
73-75.5		ANDESITE	Fine grain to aphinitic	Mod hmt stain	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
75.5-82		OVER-BURDEN									
82-101.5		ANDESITE	Fine grain, medium gray	specular and disseminated hmt							
82	EO-228		Mush rock to 86 m	tr. malachite, py veinlets				779	24	0.6	6
85		DRILL COLLAR	DDH 12 (?)								
87.5	EO-229	ANDESITE	Fine grain, medium gray	2-3% carbonate in the matrix py in disseminations and veinlets				639	20	0.5	5
94.25	EO-230	ANDESITE	Fine grain, light gray w/ hmt staining	Very hard, hornfelsed hmt stain Intense cpy on fracture surfaces and disseminated blebs throughout, py on frcts, rare malachite				1396	34	0.3	19
100	EO-231	ANDESITE	Weathered andesite	Mod Fe oxid'n, Intense Mn stain, hmt stain Mod. hornfelsed	frac	58	82	2297	11	0.5	4
101.5-109	EO-232	BRECCIA	Brecciated BFP and andesite Qtz stockwork Crumbly and bleached, clay alt'd.	intense Fe oxid'n/limonite hmt and tr. magnetite Blebs of py 3%+				1587	12	0.6	69
103.5	EO-233	BRECCIA	Brecciated BFP/andesite Bleached white	Blebs of py 5% Silicified Strong Fe oxid'n, Mn stain				495	22	0.6	30
106	EO-234	BFP DYKE	BFP, mildly clay alt'd BFP alt'd to sericite 0.5m wide	Blebs of py Sharp, angular contact				766	4	0.3	9
106.25	EO-235	BRECCIA	Brecciated BFP/andesite	Strong Fe oxid'n, Mn stain py 5%				125	4	<0.3	32
109-112		ANDESITE	Medium gray, fine gray	Mild chl alt'n							
109	EO-236		occ. plag porphs	Py along fractures 2%+				1359	61	0.4	7
112-113	EO-237	WEATHER ED ANDESITE	Mainly jarosite, clay-alt'd mush	Intense Fe oxid'n				841	22	0.8	10
113-117.5		ANDESITE	Medium gray, fine gray	Mildly siliceous, hmt splashes	frac	54	74				
115.5	EO-238		Hornfelsed, minor qtz stockwork	py blebs (<1%)				730	21	0.5	6
117.5-127.5		BRECCIA	Brecciated BFP/andesite	Intense clay/carbonate alt'n w/ local silicification							
118	EO-239			Azurite/malachite along most fractures Blebs of cpy common on fresh surfaces Strong Fe-oxid'n				6042	35	1.7	30
121	EO-240	BRECCIA	Brecciated BFP/andesite Bleached white	Clay alt'd matrix w/ 3% carbonates 6%+ py in gobs 4% cpy in gobs malachite on fractures				7261	71	4.2	7
121-124		BRECCIA BFP DYKE	BFP dyke surrounded by breccia BFP has siliceous, light gray matrix 45% euhedral feldspars, altered to clay, occ. biotite books	Blebs of py (<1%)							
124	EO-241		Breccia contains qtz stockwork	Clay alt'd but hard Py 5% and cpy <5% along frcts and veinlets				4336	86	5.1	22
124-127.5		BRECCIA	Breccia w/ some A-SH BFP	Strongly limonitic							

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
127.5	EO-242		Qtz stockwork, rock very soft, clay alt'd	No visible mineralization				1850	49	2.6	54
127.5-129		ANDESITE	Sharp, jagged contact w/ breccia								
129-133		BRECCIA	Clay alt'd BFP/andesite breccia w/ minor	3%+ cpy							
129	EO-243		vugs and <1% carbonate	(Cu % 2.840 Fire Assay)				26323	348	10.5	11
132.5	EO-244	BRECCIA	Brecciated BFP/andesite Same loc'n as 2 DDH holes	High-grade mineralization 5-10% Cpy				3534	412	4.8	22
133-137	EO-245	ANDESITE	Andesite w/ minor breccia	Highly clay alt'd Weak mineralization				1916	224	1.5	20
137-140		OVER-BURDEN	Likely large erratic of chl alt'd andesite.								
138	EO-246		Sampled anyway.					708	8	<0.3	1
140-152		BRECCIA	Brecciated BFP. Clay alt'd matrix and BFP.	Malachite stained fractures							
140	EO-247		Qtz stockwork	Abundant py along fractures.. (Cu %- 1.434) 2%+ Cpy in breccia matrix				13683	270	9.3	54
144	EO-248	BRECCIA	Super-enriched brecciated BFP/andesite	Blocks of py and cpy (10%+) white acicular unknown altered to clay on frcts (Cu% - 1.422)				13362	336	15.3	44
148	EO-249	BRECCIA	Resistant but clay-altered bx'ed BFP/andesite	Gobs of py and cpy (<10%)				2365	110	2.9	63
152-155	EO-250	BFP	Highly alt'd BFP w/ minor surrounding bx Vuggy w/ most carbonate weathered out	5-10% py, 5%cpy in gobs				1729	53	4	157
155-158	EO-251	ALTERED ANDESITE	Bleached pale white	Malachite on fractures Mn/Fe oxides Py in stringers				2494	138	0.8	13

End of trench 158 m

TRENCH:	97-35 (AC # 97-4381)	PROPERTY:	Heame Hill
LOCATION:	10272 W; 9900 S	CLAIM # :	Heame 1
ELEVATION:		SAMPLED BY:	A.S. & E.O.
DIRECTION:	SW along road	DATE STARTED:	August 12, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 12, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
2	AS-222	BFP	greenish grey, with 40-50% anhedral to subhedral plag xtals; <3% fresh biotite	pervasively chloritized with local Mn oxide staining malachite staining occurs along fracture surfaces specks of pyrite throughout				2112	44	0.8	14
6.5	AS-223	BFP	same as above weakly magnetic	same as above with less chlorite alteration and stronger iron oxide alteration trace pyrite; abundant malachite staining hematite splashes throughout	frac	140	90	2523	58	0.6	40
14	AS-224	BFP	50-60% subhedral plag porphs with 3-5% biotite hexagonal xtals	pervasive iron oxide alteration trace pyrite with malachite along fracture surfaces	frac	58	82				
20	AS-225	BFP	same as above, but core is fairly mushy and incompetent	strong iron oxide alteration a 10cm fault gouge zone occurs at 19.5m	frac	248	70	5090	199	1.7	729
								1075	38	1	69

END OF TRENCH at 26m in BFP as above

TRENCH:	97-36 (AC # 97-4381/97-4381A)	PROPERTY:	Hearne Hill
LOCATION:	10172 W;09903 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	D.M.
DIRECTION:	SW along road	DATE STARTED:	August 12, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 12, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Stru Type	
12	DM-32	ALTERED DIORITE/ QBFP	bleached, white silical quartz vein coarse grained with quartz augens	stained with Fe ox (goethite) strong sericitization of feldspars coated with black dendritic material / pyrolusite leaves; malachite staining cpy occurs with pyrite as lensoidal stringers		
12	DM-33	ALTERED DIORITE/ QBFP	high grade sample of above	cpy in quartz veins 2cm wide as lensoidal stringers; same alteration as above alteration is cross-cut by younger less altered finer grained BFP, structure is undecipherable		
				Fire Assay:		
15	DM-31	DIORITE/Q BFP	extremely weathered, orange red coarse grained, few fresh biotite books <3mm large plag relict xtals up to 5mm laths alt'd to clay sericite felsic to intermediate composition quartz xtals in various amounts	no sulfides iron oxide alteration		
22	DM-30	DIORITE/Q BFP	coarse grained with bleached material	strong Fe ox with cpy and pyrite gros layer above bedrock <.5m, orange-red limonite/goethite	cpy as small blebs <.2% disseminated pyrite throughout	
			trench is 30m long and 1.5m deep			
25	DM-25	DIORITE	coarse grained with abundant quartz augens (<4mm in diameter) numerous fractures; brxx texture	intensely sericitized and bleached Fe ox 10% in open vugs trace cpy <0.7% pyrite	frac	
			END OF TRENCH at 30m			

TRENCH:	97-37 (AC # 97-4381)	PROPERTY:	Hearne Hill
LOCATION:	10195 W; 9860 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & A.S.
DIRECTION:		DATE STARTED:	August 12, 1997
PURPOSE:	To map bedrock along an existing road	DATE COMPLETED:	August 12, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0	AS-226B	ALTERED QUARTZ DIORITE	From 0 - 8 m: 20% qtz, 50% feldspar and 30% alter mafics Bleached	strongly clay altered, obliterating texture Hmt and chl alt'd Mafics are alt'd to f.gr., dark, shiney clay (?) likely biotite malachite in frcts. py in veinlets and rare flecks				2323	67	1.1	31
4.5	AS-227B	ALTERED QUARTZ DIORITE	Similar to above, inc. in mafics and less altered	Tr. py				1242	28	0.3	18
12	AS-228B	BFP	From 8 -14m: Fine grain matrix. Fresh biotite books, black. 40% euhedral plag xals	Barren Mild Fe oxid'n				663	8	<0.3	9
14-18		OVER- BURDEN									
18-32		BFP	Same as above	Local py along fractures							
19	AS-229B	BFP		Tr. malachite staining Py on fractures surfaces, strong Fe oxid'n				380	11	<0.3	9
26	AS-230B	BFP	Rounded feldspar xals, partially clay altered 50%, 7% euhedral biotite books in a light gray siliceous matrix	1-2% py in blebs				643	33	<0.3	12
31.5	AS-231B	BFP	Same as above w/ hmt stringers	Magnetite along fractures ~5% occ. malachite blobs, fine disseminated py				991	42	0.3	8

END OF TRENCH 32m

TRENCH:	97-38 (AC # 97-4723)	PROPERTY:	Hearne Hill
LOCATION:	10200W; 9925S; 7m @110° from DDH-81,82,83. Trench is 5m @100°	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & A.S.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-1.5		BFP	Highly weathered BFP	Intense jarosite alt'n. Bright yellow w/ Fe oxid'n completely clay alt'd							
2.5	EO-252	BFP	From 1.5 - 5m: Light to medium gray matrix 40-45% euhedral to subhedral plag xals 2-3% euhedral biotite - dark brown (For 1.5 - 5m)	1% finely disseminated py <i>Slightly hornfelsed</i>				401	15	0.4	4

TRENCH:	97-39 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	4m W of SW apex of triangle junction. Trench tends 40° for 4m	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
1.5	EO-253	BFP	From 0 - 4m: BFP: 45% euhedral plag xals, 10% biotite (rare books), black	2-3% py flecks and disseminations malachite on fractures flecks and blebs of cpy Fe oxidation on surfaces				1413	108	<0.3	3

END OF TRENCH at 5.0m

TRENCH:	97-40 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	43m N of BL along rd, 5m long @ 30° (road with DDH-113)	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small plts to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Struc Type
0-2		Weathered BFP	Matrix is light gray, hard 50% Crowded feldspar xals, euhedral 5-10% biotite partially sericitized	Siliceous Py blebs throughout (.5%)	frac
2	EO-254	ALTERED BFP	From 2 - 5m: Light gray matrix, unaltered 40% clay altered feldspar 5% sericite replaced biotite	2% finely disseminated py locally	

END OF TRENCH at 5.0m

TRENCH:	97-41 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	40m N of BL along Rd, 5.4m long @ 60°	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-4		BFP	Matrix is medium gray, hard 40% feldspar xals, eu to subhedral 5-6% Euhedral biotite	Siliceous Tr. cpy							
4-5.4		ALTERED BFP	Light gray matrix, unaltered	2% py, finely disseminated and veinlets				822	208	<0.3	14
3.0-5	EO-255		40% clay altered feldspar 5% biotite, partially altered to sericite								

END OF TRENCH 5.4m

TRENCH:	97-42 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	33m N of BL rd, 4.8m long @ 55°	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:	NNW - SSE	DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-4.8		BFP	Matrix is light gray, hard	Siliceous				928	134	<0.3	1
1.5	EO-256		50% feldspar xals, euhedral, clay altered 4% Euhedral biotite	0.5%+ cpy, malachite 1% py along fractures and gobs tr hmt							
4.5	EO-257			5% py, tr. malachite, more weathered than above				783	36	<0.3	43
END OF TRENCH 4.8m											

TRENCH:	97-43 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	23m N of BL along rd, 5m long @ 48°	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-4.8		BFP	BFP contains many microfractures	Strong Fe oxid'n	frac	57	84				
3.0-4.0	EO-258		45% clay-altered feldspar 5-7% biotite (euhedral, black or very fine grain - secondary??)	tr. to 0.5% finely disseminated py mild hmt/chl alt'n 5% py, tr. malachite, more weathered than above				1009	111	<0.3	4
5		QUARTZ									
		DIORITE	Small sections of Qtz diorite w/ BFP								

END OF TRENCH 5.0m

TRENCH:	97-44 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	18m N of BL rd (E of road), 4.8m long @ 63° (Road with DDH-113)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Str Type
0-4.8		QBFP/ QUARTZ	Coarser grain than typical BFP	High hmt alt'n, weak magnetite alt'n	
2-2.5	EO-259	DIORITE	10-15% qtz, 40-45% feldspar xals. Fine grain (secondary?) biotite	Py on frct surfaces Malachite occurs locally, minor cpy Locally, dark, siliceous microfractures. 5% py, tr. malachite, more weathered than above	
END OF TRENCH 4.8m					

TRENCH:	97-45 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	13m N of BL, is 4.5m long @ 60P (road with DDH-113, E of road)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-4.5		QUARTZ	Coarse grain intrusive	partial clay alt'n, weak chl alt'n							
4.0-4.5	EO-260	DIORITE	15% qtz, 50% feldspar xals. 10% fine grain (secondary?) biotite	Tr py on fracture surfaces Malachite occurs locally on fractures Moderately hornfelsed				1742	75	<0.3	11

END OF TRENCH 4.5m

TRENCH:	97-46 (AC #97-4583)	PROPERTY:	Hearne Hill
LOCATION:	2m N of BL, is 4.8m long @ 70° (road with DDH-113)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0.5-1	EO-261	ALTERED ANDESITE	Weakly brecciated fragmental Bleached white	Highly clay altered but hornfelsed Hmt microveinlets				2623	237	0.4	10
1-4.8	EO-262	BFP	Blue/maroon-gray matrix 40-45% clay alt'd feldspar (eu to subhedral) 2-3% small biotite	1% py along fractures Tr. malachite on frcts weak chl/hmt alt'n				1241	22	<0.3	3

END OF TRENCH 4.8m

TRENCH:	97-47 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	36.3m N of BL, is 5m long @ 65° (E side of road)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
4.5	EO-263	Q(B)FP to QTZ- DIORITE	Coarse grain intrusive or very crowded porphyry, with 50% feldspar and 10-15% qtz and 10-15% fine grain soft mafic, likely biotite. Bleached white.	Highly clay altered Silicified 5% finely disseminated py, tr. malachite				4459	393	0.4	8

END OF TRENCH 5.0 m

TRENCH:	97-48 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	36.3m N of BL, is 3.5m long @ 245P (5m W of road)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:		DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	
					Type	Az
0.5	EO-264	QTZ-DIORITE	Coarse grain intrusive with 50% feldspar and 5-10% qtz 15-20% fine grain soft mafic (biotite) Bleached white.	Clay altered 4% finely disseminated py, tr. malachite and cpy Moderate Fe oxid'n. Mildly magnetic		
3.5	EO-265	BFP	40-45% fresh, euhedral 2-3mm plagioclase xtals, 7% black biotite books (2mm) in a medium grey	Barren		

END OF TRENCH 3.5 m

TRENCH:	97-49 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	23m N of BL, is 5.9m long @ 64p (E side of road)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:	N	DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0-4		Q(B)FP	More porphyritic than coarse-grained	5% finely disseminated py, tr. malachite							
2.5	EO-267	(QTZ-DIORITE)	with 40-60% feldspar xals, euhedral 10-15% qtz in a blue-gray	Moderate Fe oxid'n.				1050	45	0.6	15
4-5.9		BFP	Highly weathered	Tr. malachite and py							
5.8	EO-266	BFP	40-45% fresh, euhedral 2-3mm plagioclase xtals, 7% black books (2mm) in a medium grey matrix					1395	58	0.4	7

END OF TRENCH 5.9 m

TRENCH:	97-50 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	23m N of BL, is 6m long @ 226P (W side of road)	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	E.O. & R.M.
DIRECTION:	N	DATE STARTED:	August 14, 1997
PURPOSE:	To trench small pits to find source of 1996 geochem anomaly	DATE COMPLETED:	August 14, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0.5	EO-288	BFP	40-45% fresh, euhedral 2-3mm plagioclase xtals, 3-4% black biotite books (2mm) in a medium to light gray matrix	Abundant py on fracture surfaces, tr. cpy and malachite Mildly chl-hem alt'd matrix				2430	371	0.7	18
3.5-6.0		QBFP	40-50% fresh feldspar xals, euhedral	Local malachite, 3% finely disseminated py							
5.8	EO-269	QTZ DIORITE	20% qtz, 10-15% fine grain biotite (?)					1725	132	0.3	8

END OF TRENCH @ 6.0 m

TRENCH:	97-52 (AC # 97-4723)	PROPERTY:	Hearne Hill
LOCATION:	10010 W; 10135 S	CLAIM # :	Hearne 1
ELEVATION:		SAMPLED BY:	A.S., D.M. & D.K.
DIRECTION:	N	DATE STARTED:	August 20, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 20 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures Type
1.5m	AS-229	ANDESITE	dark grey, fine grained, hornfelsed with a slightly mottled texture contact with BFP at 8.5m	strong Fe and Mn oxide staining occasional specks of metallic hematite pyrite occurs along fracture surfaces	
10.0m	AS-230	BFP	medium grey, with approximately 40-50% subhedral, white, relatively unaltered plag xtals; 2-3% dark brown hexagonal biotite xtals contact with andesite at 12m	potassic alteration, with iron oxide staining near surface, very hard pyrite occurs along fracture surfaces cpy occurs rarely as blebs within the matrix	
19.0m	AS-231	ANDESITE	medium to dark grey, fine grained, hornfelsed, very hard and fairly massive	Fe ox staining as the surface pyrite occurs along fractures dark red wisps and smudges of hematite cpy splashes occur within the matrix	frac
30.0m	AS-232	ANDESITE	same as above, but with weak cpy unit becomes more microfractured and alt'd from 33 to 39m	same as above with slightly less cpy	
39.0m	AS-233	ANDESITE	medium to dark grey, fine to medium grained strongly hornfelsed with a massive texture	disseminated pyrite and rare cpy silicified with iron oxide alteration at surface	frac
50.0m	AS-234	ANDESITE	medium grey, fine grained, hornfelsed hematite occurs in branching stringers	silicified with Fe oxide and silica alteration rare cpy specks and abundant py along fractures	frac
60.0m	AS-235	ANDESITE	dark grey, fine grained with rare visible plag xtal faces strongly hornfelsed	silicified with weak potassic alteration; unit is magnetic iron oxide alteration occurs at the surface no visible sulfides	
70.0m	AS-236	ANDESITE	strongly oxidized, incompetent rock weakly microfractured trench is 3-4m deep	intense iron oxide alteration (limonite, hematite, and jarosite) no visible pyrite or cpy	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
80.0m	AS-237	ANDESITE	medium grey with dark greenish grey weakly hornfelsed	weakly silicified with iron oxide staining and local chloritized sections finely disseminated pyrite hematite occurs as fine veinlets iron oxide staining occurs near the surface				276	11	<0.3	6
88.0m	AS-238	ANDESITE	similar to above, but slightly more competent and microfractured	same as above				203	10	<0.3	4

END OF TRENCH at 88.0m

TRENCH:	97-53 (AC # 97-4723)	PROPERTY:	Hearne Hill
LOCATION:	10010 W; 10108 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S., D.M. & D.K.
DIRECTION:	NW	DATE STARTED:	August 20, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 20 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0m	AS-239	ANDESITE	medium to dark grey, fine grained, hornfelsed very thin <1mm white calcite stringers throughout	silicified with specks of finely disseminated cpy and occasional blebs, locally surrounded by bornite; minor pyrite blebs minor disseminated hematite FeOx alt'n at the surface				572	18	<0.3	4
10.0m	AS-240	ANDESITE	dark grey, aphanitic to fine grained with a fairly massive texture, hornfelsed weak microfracturing throughout	iron oxide alteration metallic hematite and pyrite specks				290	9	<0.3	3
20.0m	AS-241	ANDESITE	medium grey, aphanitic to fine grained hornfelsed	silicified with weak iron oxide alteration cpy occurs along fracture surfaces smudges and wisps of hematite				286	6	<0.3	4
30.0m	AS-242	ANDESITE	intensely altered, mushy rock trench is 4.5m deep	strong iron oxide alteration throughout				980	47	<0.3	24

END OF TRENCH at 33.0m

TRENCH:	97-54 (AC # 97-4583)	PROPERTY:	Hearne Hill
LOCATION:	10079 W; 10098 S heading @ 155p	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & S.S.
DIRECTION:		DATE STARTED:	August 21, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 21 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures Type	Az	DIP	Cu	Au	Ag	Mo
								ppm	ppb	ppm	ppm
0.0m	AS-243	ANDESITE	Very fine grained, medium grey, hornfelsed weakly minor <2mm calcite stringers	weakly chloritized with hematite stringers throughout; pyrite occurs along fracture surfaces small specks of bornite locally surrounding cpy blebs iron oxide rims at surface				920	43	0.3	10
6.0m	AS-244	ANDESITE	same as above	same as above	frac	260	78	2763	88	0.4	23
17.0m	AS-245	ANDESITE	very fine grained, medium grey, weakly hornfelsed unit becomes more strongly clay and iron oxide altered contact with BFP dyke at 26.0m strongly bleached with 40-60% subhedral white plag xtals in a fine grained sericite altered matrix andesite section occurs from 27.0-29.0m	weakly chloritized with hematite stringers pyrite occurs along fracture surfaces cpy occurs as small specks iron oxide rims at surface	frac	48	82	1027	23	<0.3	13
26.0m	AS-246	BFP	bleached, with a brecciated texture 1-10cm clasts of bleached BFP and andesite; intensely microfractured contact with andesite at 31.0m	strong clay and iron oxide alteration minor pyrite and specks of cpy specks of metallic hematite				755	25	<0.3	20
29.0m	AS-248	BRECCIA	bleached, with a brecciated texture 1-10cm clasts of bleached BFP and andesite; intensely microfractured contact with andesite at 31.0m	strong clay and sericite alteration throughout locally silicified with chalcedony quartz infilling pyrite is very abundant and occurs as thick (up to 1cm) irregular veinlets and fracture fillings malachite staining occurs on fracture surfaces				2031	38	0.4	16
33.0m	AS-247	ANDESITE	relatively soft and strongly altered no outcrop occurs from 34 to 39m: mushy intensely limonite and clay altered	intense iron and manganese oxide alteration clay altered	frac	86	80	2694	36	<0.3	16

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures Type
40.0m	AS-249	ANDESITE	pale to medium grey, fine grained very thin < 1mm veinlets of translucent grey quartz throughout	weak iron oxide alteration occasional splashes of cpy trace pyrite	
50.0m	AS-250	ANDESITE	medium to dark grey, fine grained, hornfelsed rare thin 1-4mm white calcite stringers	splashes of cpy occur along fracture surfaces with local chlorite-alteration rims pyrite specks are disseminated throughout dark red opaque hematite veinlets and occasional metallic grey hem specks	frac frac
60.0m	AS-251	ANDESITE	similar to above, slightly less hornfelsed, paler grey, with more microfracturing	pyrite occurs along fracture surfaces hematite occurs as veinlets with limonite alteration rims	
66.0m	AS-252	BFP	a BFP dyke occurs from 66.0 to 66.5m 40-50% white clay altered plag xtals up to 1cm in diameter; 2% biotite	very mushy clay and iron oxide altered small splash of malachite	
70.0m	AS-253	ANDESITE	pale grey, weakly hornfelsed weak microfracturing throughout	pyrite occurs along fracture surfaces hematite occurs as veinlets with limonite alteration rims	frac frac
			END OF TRENCH @ 73.0m		

TRENCH:	97-55 (AC # 97-4905)	PROPERTY:	Hearne Hill
LOCATION:	10074 W; 10195 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	A.S. & S.S.
DIRECTION:		DATE STARTED:	August 22, 1997
PURPOSE:	To map the bedrock along the road	DATE COMPLETED:	August 23 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
33.8m	AS-254	ANDESITE	overburden from 0 to 33m medium grey, fine grained, weakly hornfelsed unit becomes more strongly clay and iron oxide altered at 39.0m	pyrite occurs along fracture surfaces splash of cpy with a speck of bornite hematite stringers throughout				1776	37	<0.3	18
39.0m	AS-255	alt'd ANDESITE	pale grey to white with occasional white <2mm feldspar microporphs unit becomes more intensely clay altered with stockwork pyrite veining similar to breccia in 97-30.	strong limonite, jarosite, clay and Mn oxide alt'n blebs and veinlets of pyrite splashes of cpy with rare bornite coatings				856	15	<0.3	12
43.0m	AS-256	BRECCIA	intensely altered; incompetent and mushy locally brecciated contact are difficult to distinguish due to intense alteration breccia section outcrops from approx 41.7 to 43.5m outcrop is very mushy and unconsolidated from 45 to 56m approx 40-60% plag, 2-4%	strong clay and iron oxide alteration throughout pyrite veining occur as stockwork throughout				792	18	<0.3	9
56.0m	AS-257	BFP	biotite locally bleached with intense clay alt'n obliterating porphyritic textures texture is very mushy contact with andesite at 57.0m	strong iron oxide alteration rare pyrite veinlets				674	14	0.3	16
57.0m	AS-258	ANDESITE	medium grey, fine grained 1-5mm quartz/carb stringers	weakly silicified with local iron oxide alteration pyrite veinlets occur along fracture surfaces				2991	104	0.6	14
64.0m	AS-259	ANDESITE	medium grey, aphanitic to fine grained hornfelsed	weakly silicified and chloritized pyrite occurs disseminated throughout and in thin irregular veinlets				1914	70	0.6	73

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
			no outcrop is exposed from 66.0 to 69.0m	cpy occurs as rare splashes along fracture surfaces thin < 1mm branching red stringers throughout							
70.6m	AS-260	ANDESITE	same as above with slightly more veining <2mm white quartz/carbonate A mushy BFP dyke occur at 74.0-75.0m	similar to above, but slightly less silicified			987	22	<0.3	16	
79.0m	AS-261	ANDESITE	medium grey, fine grained to aphanitic hornfelsed no outcrop is exposed from 81.0m to 89.0m	weakly silicified, weakly chloritized increased cpy mineralization			2317	70	0.5	27	
89.0m	AS-262	ANDESITE	medium grey, fine grained to aphanitic hornfelsed	weakly silicified, weakly chloritized cpy occurs as blebs specks of malachite occur at the surface			2254	84	0.4	39	
98.0m	AS-263	ANDESITE	same as above	increased Fe ox staining			2646	80	0.3	40	

TRENCH ENDS at 100m

TRENCH:	97-56 (AC # 97-5104)	PROPERTY:	Hearne Hill
LOCATION:		CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	G.W. & S.S & A.S.
DIRECTION:		DATE STARTED:	August 29, 1997
PURPOSE:	To map the bedrock underlying the 1996 geochem anomaly	DATE COMPLETED:	August 30, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0.5	AS-264	QUARTZ DIORITE/ Q(B)FP	Approximately 60% plag (anhedral <0.7cm grains), 30% quartz (1-7mm subhedral grains); no visible mafics. Weak fracturing throughout.	Strong iron oxide alteration throughout abundant pyrite as irregular veinlets and along fracture surfaces.	frac	112	58	116	8	0.3	2
0.5	AS-265	QUARTZ DIORITE/ Q(B)FP	Approximately 60% plag (anhedral <0.7cm grains), 30% quartz (1-7mm subhedral grains); no visible mafics.	Similar to above with dendritic Mn oxide (pyrolusite) and slightly more clay alteration.				131	6	<0.3	1
10	AS-266	QUARTZ DIORITE/ Q(B)FP	Approximately 60% plag, 30% quartz and 10% mafics. Thin <2mm quartz stringers throughout unit is very hard. Contact with BFP occurs at 12.5m.	Strong Fe Ox alteration. Specks of pyrite throughout.				251	8	<0.3	3
14.5	AS-267	BFP	Medium gray fine grained matrix with 1-6mm white, euhedral plag xtals (30%) and rare <1mm biotite hexagons (<1%). Fine <1mm white clacite stringers. Very mushy rock occurs from 18m to 25m.	Relatively unaltered. Finely disseminated pyrite (up to 1%).				351	10	<0.3	1
27	AS-268	BFP	Same as last sample. No outcrop is exposed from 28.0 to 33.0m. QBFP is exposed at 33.0 to 37.0m.	Similar to last sample/ Slightly more silicified with less pyrite.				29	1	<0.3	2
37	AS-269	QUARTZ DIORITE/ QBFP	Approximately 60% plag, 20% quartz (<5mm augens); 2% altered biotite xtals (1-2mm). Rock is mushy and incompetent. A fine grain dyke of intermediate to mafic composition occurs at 39.0m; 30cm wide, subvertical and trending at 023.	Intense clay FeOx alteration. Local MnOx alteration.	dyke	23	90	917	33	0.6	29

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure:
					Type
42	AS-270	QUARTZ DIORITE/ QBFP	Approximately 60% plag, 20-30% quartz, no visible mafics. Rock is fairly incompetent. Thin <2mm quartz stringers as stockwork unit grades into a more "classic" diorite at approximately 46.5m.	Pervasive iron oxide alteration. Pyrite and cpy are disseminated throughout.	
48	AS-271	DIORITE	Approximately 30-40% plag, 30% mafics and 10-20% quartz. Coarse grained, fairly hard. Gradational contact from diorite into QBFP/quartz diorite	Iron oxide along fracture surfaces and near surface. Specks of pyrite throughout.	frac
55	AS-272	QBFP/ QUARTZ DIORITE	Approximately 20-30% quartz (as <5mm augens), 10-20% mafics and 50% plag. Relatively hard.	Strong iron oxide alteration. Trace pyrite.	
63	AS-273	QBFP/ QUARTZ DIORITE	Same as last sample.	Similar to last sample with jarosite along fracture surfaces. Strong clay and limonite alteration.	frac
73	AS-274	QUARTZ DIORITE / QBFP	Medium to coarse grained. Approximately 10-20% mafics, 60% plag and 10-20% quartz.	Iron oxide alteration throughout. Trace pyrite.	
80	AS-275	QUARTZ DIORITE / QBFP	Medium to coarse grained, approximately 30% quartz, 50-60% plag, <10% mafics. Veins consist of thin <2mm silica veinlets. A 20cm feldspar porphyry intrusion with malachite staining occurs at	Pervasive iron oxide alteration. Melachite occurs along fracture surfaces. Py and cpy occur as specks and blebs. Generally associated with fractures and veins.	
87	AS-276	QUARTZ DIORITE / QBFP	Medium grained with approximately 45% plag, 20-30% quartz, <5% mafics. Veining consist of thin stockwork silica veinlets.	Pervasive iron oxide alteration, weak clay alteration. Py and cpy occur as specks and blebs generally associated with fractures and veins. Minor malachite staining.	
95	AS-277	QUARTZ DIORITE / QBFP	Same as above. Silica stockwork veining <2mm, locally bearing cpy and py mineralization.	Similar to above.	frac
104	AS-278	QUARTZ DIORITE / QBFP	Same as above.	Same as above. Cpy is concentrated along fracture surfaces.	frac

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
110	AS-279	QUARTZ DIORITE / QBFP	Strongly oxidized malachite zone from 110.0 to 111.0m.	Malachite and azurite occur in abundance on fracture surfaces. Cpy occur in blebs and along fracture surfaces.				16141	651	4	4
119.5	AS-280	QUARTZ DIORITE / QBFP	Approximately 30-40% quartz, 30-40% plag. Stockwork silica veining throughout. Contact with bleached BFP unit at 128.0m.	Siliceous with pervasive iron oxide and local malachite staining. Finely disseminated cpy and py. Occasional <5mm blebs of cpy.				4479	28	1	19
	AS-281	BFP	Bleached with approximately 40-50% plag xtals, stockwork pyrite and silica veining.	Strong clay and sericite alteration. Iron oxide alteration near surface. Finely disseminated cpy; pyrite as stockwork veins.				291	13	0.4	2
	139 AS-282	BFP	Strongly oxidized with 40-50% plag xtals (subhedral, <3mm) and 1% black biotite xtals, <5% quartz.	Strong pyrite mineralization. Clay altered.				3499	73	2.2	6
	141 AS-283	ALTERED BFP	Very mushy, incompetent rock.	Intense clay, jarosite and limonite alteration.				302	78	3.9	9

End of trench at 142 m

TRENCH:	97-57 (AC # 97-5104)	PROPERTY:	Hearne Hill
LOCATION:	10090 W; 9950 S	CLAIM #:	Hearne 1
ELEVATION:		SAMPLED BY:	G.W & E.O.
DIRECTION:	up 350 P	DATE STARTED:	August 31, 1997
PURPOSE:	Extend Bland zone and uncover new zone	DATE COMPLETED:	Sept. 1, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
0 - 2.0		OVER-BURDEN	Road fill								
2.0 - 21.5		BRECCIA	Heavily bleached, pale white BFP/Andesite breccia. Cemented by clay and carbonates with variable amounts of Cpy and Py	High clay alteration. Moderate Fe and Mn oxidation							
3.5	EO-285	BRECC. BFP	Pale to medium gray with 35-40% euhedral, white 1-3mm clay altered fspar / Biotite is altered to sericite	Heavily Fe oxidized at surface / Blebs of Py, cpy up to 1% locally / Malachite stain on surfaces / Mildly hornfelsed.			3841	32	0.7	5	
6	EO-286	BRECC. BFP	Feldspar xals altered to clay / Biotite altered to sericite	Mildly siliceous / Mod-high Fe Oxidation / Roughly 0.5% of py and cpy mainly occurring in clay/carbonate cement / Tr malachite			2780	23	0.7	5	
8.5	EO-287	BRECC. BFP	Highly clay altered (kaolinite) and bleached white	Vuggy texture locally / Mild chl. alteration	frac	046 SV	1944	73	1	12	
10	EO-288	BRECC. BFP	Same as above / Much more cu mineralization in broken, excavated rock than in samples / Upper rock is likely partly Cu depleted	More vuggy and increase in yellow colour due to Fe oxidation stain of clay / occasional 1-2mm quartz stringers			8657	138	7.5	4	
13	EO-289	BRECC. BFP	Highly mineralized, bleached BFP breccia / Matrix is clay/carbonate and cemented Cpy	Roughly 20% cpy in gobs and rarely in veinlets / Tr. malachite / Zones in Mn/Fe oxidation (Photos)			11564	255	11	2	
16.5	EO-290	BRECC. BFP	Similar to above but only 5% cpy. Inc. malachite				12574	128	2.2	1	
19.5	EO-291	BRECC. ANDESITE	Altered phytic andesite, large fragment in bx. Feldspar xals 1mm. Rock is much more competent than previously.	Cpy/py in blebs <0.5%	frac	226 32	1217	22	0.6	3	

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
20.5	EO-292	BRECC. BFP/ ANDESITE	Moderate to highly clay altered breccia. Contact with following unit is sharp at 280 to 310/40 (difficult to measure).	1-2% cpy along fractures and in small vugs. Weak malachite stain. Trace py.				998	11	0.4	2
21.5-27.5		BFP DYKE	40-45% subhedral 1-2mm orange clay altered feldspar xals. 2-3% euhedral dark brown biotite. Brown-gray	Moderate to mild Fe oxidation							
25	EO-293	BFP DYKE	Same as above. Contact with trench 58 @ 26-27m.	Moderate Fe oxidation. Minor disseminated sulfides. Cpy and py on fracture surfaces				1436	26	0.3	3
26-27	EO-294	BFP DYKE	40% feldspar xals, relatively fresh. 1-2% <1mm biotite xals in deium gray matrix. Contact with following unit at 27.5m and is gradational over 25cm.	Increase mineralization along fractures versus EO-293. 1-2% py and cpy.				3201	55	0.9	11
27.5-29.0		BRECCIA	Weakly mineralized breccia								
28.25	EO-295	BRECC. BFP/ ANDESITE	Andesite/BFP braccia with 10% cement matrix in a weakly fragmental unit. Cement enters along fissures/joints and alters BFP/andesite locally. Fissures are 5cm wide and x-cutting. Contact with following unit is gradational.	Mineralization is weak, in veinlets mainly. Bornite and malachite are rare and occur locally on fractured surfaces				2841	229	0.9	25
29.0-45.0		BFP	40% subhedral white (orange stained) moderate to highly altered feldspar xals. 2-3% black to brown euhedral biotite xals.	Weathered on surfaces with Fe oxidation							
32.5	EO-296	BFP	Mineralized BFP. Medium gray with finely disseminated cpy and py. Clay altered feldspar.	Mildly siliceous. Weak red hematite alteration. Clay alteration generally decrease down trench. BFP has a darker matrix and only weakly clay altered feldspar xals.				4038	37	1.6	2
40	EO-297	BFP with rare ANDESITE	BFP is medium to dark blue-gray, siliceous matrix. 30% subhedral 1-3mm weakly clay altered feldspar xals. 2-3% euhedral black biotite.	Cpy with py along fractures with occasional blebs. Mild hematite alteration.	frac	50 sv	1447	320	1.1	42	
45.0-51.0		COARSE GRAIN ANDESITE	Medium blueish-gray with tiny (<0.5) shiny feldspar phyrics.	Mild clay/hematite alteration, some fine grain mafic (likely biotite) 3%. Moderate to low Fe oxidation on surfaces. Minor py in veinlets and along fractures	frac	25 64					
					frac	358 v					

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure: Type
					frac
	50 EO-298	COARSE GRAIN ANDESITE	Same as above. Contact with following unit is relatively sharp, rock loses competency.	Moderately siliceous.	frac
51.0-53.0		BRECCIA	Rubblely and highly fractured breccia.	Vuggy texture with cpy/py in vugs and cement.	
	51 EO-299	BFP/ ANDESITE	Strong clay alteration locally.	Rare bornite and malachite. Moderate to high Fe oxidation.	

TRENCH:	97-58 (AC # 97-5414)	PROPERTY:	Hearne Hill
LOCATION:	10150 W; 9815 S	CLAIM # :	Hearne 1
ELEVATION:	1180m	SAMPLED BY:	A.S. &D.M.
DIRECTION:	NNW - SSE (98-89/98-85 collars)	DATE STARTED:	Sept. 3, 1997
PURPOSE:	Extend Blande northward and source of geochem anomaly	DATE COMPLETED:	Sept. 10, 1997

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
104	DM-55	ANDESITE	f.g. silicious & hard. Hornfels just outside brxx. Sampled in TR 97-57	Cp blebs in veinlets approx. 0.3 % Cu				1059	21	<0.3	21
100		BFP DIKE	Dike starts at 100m. Trench 0.5m deep, unalt'd material								
95	DM-56	BFP	m.g., unalt'd, dark, strong biot.	Trace diss CP throughout rock	frac	45	67	514	20	<0.3	6
89		BFP	Continuous dike similar to above. Contact somewhere between this point and next sample	Appears to become slightly more alt'd with a higher clay-seric content.							
85	DM-57	ALT'D DIORITE/ QBFP	More intensely fractured than surrounding BFP. Relict quartz augens, few mm's diameter surrounded by clay alt'n. Numerous interlocking weblike veinlets	Strong clay-seric alt'n, phyllic. Heavily oxidized on fractures. Irregular blabs py-Cp on fractured surfaces				1957	152	1.1	12
75	DM-58	ALT'D DIORITE/ QBFP	C.g. similar to above. < 10 % quartz in rock	Strong FeOx staining with Mn(pyrochroite) staining at surface. Diss Py-Cp (f.g.) throughout. Minor to massive seric alt'n of material				2306	77	0.3	8
69-73		BFP DIKE	x-cuts trench. C.g. siliceous-barren. No su's dark	Barren, no su's							
69		ALT'D DIORITE/ QBFP	Back into similar rock type as before								
65	DM-59	ALT'D DIORITE/ QBFP	Same as DM-58. Finer grained xtals. 10 % quartz augens few mm in diameter	Less alt'd than previous sample (45p./sv)				1222	60	1.4	6
67-84		ALT'D DIORITE/ QBFP	Poor exposure								
65	DM-60	BFP	Dark, c.g. very hard. 1 quartz in dike	Virtually no su's. Propylitic alt'n				129	13	<0.3	2

Meterage	Sample	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures			Cu ppm	Au ppb	Ag ppm	Mo ppm
					Type	Az	DIP				
49-57			Unit outcrops	weak seric-clay alt'n							
46-49		ALT'D DIORITE/ QBFP (BFP ?)	Gros-like mush / soft clay with few relict quartz augens	very soft clay alt'n							
46.5	DM-61	ALT'D DIORITE/ QBFP	Taken from unit above. gros- like material				133	21	<0.3	49	
34-46		BFP	Barren dike overlain by >2m Cu/Mb	Few sections very alt'd and soft							
0-34		ALT'D DIORITE/ QBFP	Similar to other	Little diss Py present							
57-64		ALT'D DIORITE/ QBFP	Poor exposure								
33	DM-62	ALT'D DIORITE/ QBFP	Sampled gros-like material same as DM-61	Mn in veinlets	frac	55	75	2725	144	3.1	44
23	DM-63	ALT'D DIORITE/ QBFP	Same as before	Strong FeOx staining			1821	62	<0.3	14	
11-15			Intense NE trending. Subvert fracturing, probably a fault		frac	45	90				
13	DM-64	ALT'D DIORITE/ QBFP	More veinlets interlocking	Diss su's (py-op) on veinlets with small malachite stain at surface <3mm diameter.			2156	85	0.5	39	
5		JAROSITE	Alt'd matter for 3m (both sides). Light yellow colour. Gros-like (part of py halo)								
4	DM-65	ALT'D DIORITE/ QBFP	Similar to DM-64	Many diss su's, mainly py			1621	64	<0.3	28	

AC #'s: 97-5414
97-5809

Trench # TR-97-59	Property: Hearne Hill
Location: Above the Blande Zone, striking north-south starting at 9740s, 10015w.	Sampled by: David MacDougall & Andrei S.
Elevation:	Date Started: Sept. 10/97
Purpose: to extend Bland zone and uncover new zones	Date Completed: September 17, 1997

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0-5 m		Alt'Diorite/QBFP	fairly fresh, c.g., medium grey colour	fracture surfaces lined with massive py grains, part of the py halo					
			up to 2 m of overburden, 1.5 m of till, clayey gravel compact, with large striated and faceted boulders overlain by 0.5 m Cv, some areas poorly exposed because of thick overburden						
5 m	DM-66	Alt'd Diorite/QBFP	fairly fresh, c.g., medium grey colour	fracture surfaces lined with massive py grains, part of the py halo		225	11	<.3	37
5-17 m			no exposure thick overburden						
17-85 m		Alt'd Diorite/QBFP	gros-like material in the bottom 40 cm of the trench overlain by reworked till and colluvium 1.2 m deep	same as above					
18 m	DM-67	Alt'd Diorite/QBFP	same as above, sample taken from good solid outcrop with strong FeOx	disseminated py, very abundant		266	15	<.3	1
30 m			gros-like material stops, no sample taken, from alt'd surface weathering						
34 m	DM-68	Diorite/QBFP	outcrop very close to surface, f.g. biotite abundant	py abundant along veinlets, weak argillic alteration (sericite forming)		24	3	<.3	1
44 m	DM-69	Diorite/QBFP	same as before, large weathered gros-like layer	py disseminated throughout		167	6	<.3	<1

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure
69 m	DM-71	Diorite/QBFP	same as before, very soft subcrop, strong interlocking veinlets in exposure of Mn-pyrolusite + FeOx	lots of FeOx, probably alt'd sulphides, py	
78 m	DM-72	Diorite/QBFP	same as before, very soft subcrop, strong interlocking veinlets in exposure of Mn-pyrolusite + FeOx, fractured material in the section intersection of fractures	lots of FeOx, probably alt'd sulphides, py	
85-105m			trench stops for Spur road		
105-116 m	DM-82	Alt'd Diorite/QBFP	c.g., many mafics, soft, abundant fractures, texture indistinct, few xenoliths in material very hard, trench is 1.6-2.2 m deep, bedrock 1.2 m below sfc., unit is Cv/Mv	strong alt'n, jarosite, FeOx, Mn on fracture sfc., +/- qtz augens in areas, pyritic clasts found throughout 106-108 m brecciated?area is bleached	Mn vein striking 045/sv
105 m	DM-73	Alt'd Diorite/QBFP	same as above	same as above	
115 m	DM-74	Alt'd Diorite/QBFP	bleached, same as above	strong FeOx	
116-125 m		Andesitic Hornfels	f.g., siliceous, barren, fresh, medium grey colour	fresh disseminated py throughout, minor hematite on veinlets, irregular disseminated trace cpy	fractures 045/sv
124 m	DM-75	Andesitic Hornfels	sample taken from area where more fractures abundant, 4 m wide section	fresh disseminated py throughout, minor hematite on veinlets, irregular disseminated trace cpy	
125-128 m		Mafic Dike	F.g., mafic material silicified, cross cutting material, >60% groundmass, abundant hbl'd xtals few mm's long interlocking one another	virtually unaltered fresh, no su's	
128-152 m		Andesitic Hornfels	f.g., siliceous, barren, fresh, medium grey colour	fresh disseminated py throughout, minor hematite on veinlets, irregular disseminated trace cpy	

134 m	DM-76	Andesitic Hornfels	same as above, hornfelses stockwork appearance	malachite stain with cpy as irreg blebs, cpy < 1%	fractures 020-050/sv	1305	24	.4	4
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Trench # TR-97-59

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Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
152 m				more py and slight clay alt'n near contact					
152-170 m		BFP Breccia	bleached angular fragments of relict BFP, soft with Mn staining on fractures	bleached, highly altered and oxidized, abundant cpy and py masses or cement with carbonate infillings					
154 m	DM-78	BFP Breccia	same as above, v. soft	very alto's, lots of FeOx, py visible as masses		77	30	1.3	76
163 m	DM-79	BFP Breccia	same as above, v. soft, lots of open vugs	very alt'd, lots of FeOx, py visible as masses, jarosite material along trench		641	21	.5	60
170-188 m		Andesitic Hornfels	f.g., siliceous, gray with areas of thick su's on fractures, fragmental material	heavily FeOx, weak seric alt'n,	contact between 2 units 040 (ne)				
177 m	DM-80	Andesitic Hornfels	f.g., siliceous, grey with areas of thick su's on fractures, fragmental material, hi-grade sample along cpy vein	heavily FeOx, strong seric alt'n like rhyodacite, cpy vein 1-2 cm wide	vein strikes 080/sv	42883	462	8.9	51
186 m	DM-81	Breccia	short sec'n of breccia within the andesite, 50 cm wide in trench,	very altered and bleached massive py-carb cement.		276	19	.7	47
188 m		E.O.T.	10000 w, 9925 s						

Trench # TR-97-60	Property: Hearne Hill
Location: Above Chapman Zone; begins 10160 W, 10150 S.	Sampled by: Erin O'Brien & David MacDougall
Elevation:	Date Started: September 24, 1997
Purpose: to extend Chapman Zone	Date Completed: September 24, 1997

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0-4.5		OVERBURDEN	road fill						
4.5 - 5.0		BFP w/ ANDESITE	Contact between two units is sharp and at 193/ 55. Andesite is light gray, fine to medium grain, unweathered and resistant. BFP is mushy, medium gray, 40% subhedral white feldspars (clay-altered), 5% euhedral black biotite.	No visible sulphides.					
4.5	EO-316	ANDESITE		Specks of py> cpy on fractures, trace malachite, mild Fe oxid'n. thin, < 1 mm veinlets of py.		1661	69	.5	3
4.5	EO-317	BFP		Orange-stained (oxidized) feldspar xals.		201	11	<.3	1
5.0-10.0		ANDESITE	Discontinuous o/c until 10.0 m	Smears of Cpy on fractures, tr. malachite.					
-7.5	EO-318					6229	244	.9	9
9.5-10		BFP							
10.0-10.5		ANDESITE							
12.0-13.0		BFP		Tr. sulphides					
13.0-15.0		ANDESITE	Fine grain, light gray w/ overprints of chl., hem stringers (< 1mm), f.d. magnetite and in veinlets 2-5 mm.		fract 060/70				
15.0	EO-319	ANDESITE	Light gray to bleached white.	F.d. py up to 0.5%		606	14	<.3	14

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
15.0		BFP	Very small BFP dyke	Tr. py, minor malachite					
15.0-20.5		ANDESITE	Good rock exposure. Same as previous.	Minor cpy on fractufres.					
20.5-23.0		BFP	30-35% sub to euhedral feldspar, 1-2% euhedral biotite.	F.d. cpy.					
23.0-31.0		ANDESITE	Gray, moderately hornfelsed. Msv to feldspar porphyritic.						
23.0 - 23.1	EO-320	BRECCIA	10 cm of breccia along a fracture plane. Cu-enriched, bleached white.	High Fe oxld'n, Mn, malachite and azurite.	258/62	4696	114	3.6	11
23.5		ANDESITE	Advanced stockwork w/ cpy and py in veinlets and rarely disseminated.						
26.25	EO-321	PORPHYRITIC ANDESITE	10-20% euhedral feldspar xals.			521	5	<.3	19
31.0-31.6	EO-333, EO-322, EO334	BRECCIA	Short sec'n of crackle breccia. Further exposed to the SW giving highly mineralized Chapman Breccia. Altered/bleached andesite clasts.	5-10% carbonates w/ clay matrix; 5-10% pyrolocite. Abundant malachite/azurite.		27187 2476 2874	21 73 86	39.2 2.1 .9	24 161 108
31.6-32.0		ANDESITE		3-5% py, minor cpy.					
32.0-72.0		BFP	Medium gray, 40-45% subhedral feldspar xals, at 32.-35.0, B-axis crudely aligned; 7% black euhedral biotite books (1-2 mm).	Tarnished py blebs 1-2%.					
40.0		BFP	Crowded BFP: 50%+ subhedral feldspar xals. Matrix is dark gray w/ f.g. black biotite and <5% <1mm euhedral biotite.	Tr. malachite on fractures.					
41.0	EO-323	FINE GRAIN BFP	xals < 1mm, dark matrix due to f.g. biotite.	Tr. malachite.		2463	130	1.1	66
51.0	EO-324	BFP	Mdm. gray, dark gray matrix w/ abundant f.g. biotite; 1-4 mm feldspar xals (euhedral lathes) and 3-4% euhedral biotite.	F.d. py 2%, cpy %.		1192	35	.3	50

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Tr

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Str
54.0		BFP		F.d. py 2-3%, tr. cpy and malachite. Mild Fe and Mn oxidation.	
56.0	EO-325	BFP	Altered, weathered and mushy.	Oxidized w/ tr. su's.	
57.0		BFP	Crowded texture, 50% feldspar xals, clay altered. Biotite altered to sericite.	Rare py veinlets.	
60-67.0		OVERBURDEN	Clay-rich till EO-332 at 61.5.		
70-72.0		BFP	Mdm gray, 40-45% euhedral feldspar (1-5 mm) 10% euhedral biotite books (1-3 mm).	Minor Fe oxid'n, msv, hard.	
70.0	EO-326				
72-73.0		ANDESITE	Sharp contact with upper unit. Unaltered but w/ salt and pepper texture.	Thin microveinlets of py.	
			END OF TRENCH - JOINS CHAPMAN ROAD.		

Trench # TR-97-61	Property: Hearne Hill
Location: Below Chapman Zone; begins 10165 W, 10235 S.	Sampled by: Erin O'Brien & David MacDougall
Elevation:	Date Started: September 24, 1997
Purpose: to extend Chapman Zone	Date Completed: September 24, 1997

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0-39.0		OVERBURDEN	Thick overburden (colluvium over till).						
39.0-59.8		BFP	Light gray, relively resistant. 35% 1-2 mm, subhedral plag xals, mildly clay alt'd; 10% black 1-2 mm biotite.	1% f.d. py. Rock is highly weathered in places and crumbley.					
40.0	EO-327	BFP				184	14	<.3	6
46.5	EO-328	BFP	40-45% subhedral plag xals, 2 % biotite	0.5-1% f.d. py, minor malachite; mild Fe oxidation.		697	20	<.3	2
52.0	EO-329	BFP	Crowded texture w/ 1-3 mm subhedral white feldspar xals, moderately clay alt'd. Medium gray matrix.	Minor malachite on surfaces.		508	20	<.3	3
53.8			Lots of pyrolocite						
54.5-55.5	EO-330	ANDESITE	Contact with BFP is sharp at 020/sv. Fine grain, light slate gray color, 10% <0.5 mm feldspar phyrics.	1% cpy on occassional fracture surfaces.		4605	185	.7	96
55.5-58.5		BFP	Same as previous.						
58.5-67.0		ANDESITE	Contact with the upper unit is at 58.0 m and subparallel to the trench, trending 320. Andesite is mod-strongly hornfelsed w/ abundant f.g. biotite in the groundmass.	F.d. cpy and py about 0.75% each.					
67.0	EO-331	ANDESITE	Hornfelsed, dark grey with lighter sec'ns, f.g.	Mild hem alt'n. F.d. cpy and on fractures.		655	16	<.3	17
			END OF TRENCH.						

Trench # TR-97-62	Property: Hearne Hill
Location: Below Chapman Zone; begins 10163 W, 10255 S.	Sampled by: Erlin O'Brien w/ Kieran McConnell
Elevation:	Date Started: September 25, 1997
Purpose: to extend Chapman Zone	Date Completed: September 25, 1997

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0-46.0		OVERBURDEN	Thick (2 m+) overburden (colluvium over till).						
46.0-52.0		ANDESITE	Slate gray with white 'salting'. Mildly hornfelsed, in locally darker areas.	Rare red hem stringers. Up to 0.5 % f.d. cpy. Minor Fe oxid'n.					
50.5	EO-336	ANDESITE	Similar to above. Hard and resistant.	Sugary masses of cpy.		1860	39	.4	31
52.0-54.0		OVERBURDEN							
54.0-93.0		ANDESITE	Similar to above.						
55.0	EO-337	ANDESITE	Increase in dark, f.g. biotite (increase in hornfelsing), thin qtz stringers <1 mm.	Weathered and grungy, just below till overburden. Stockwork fractures. Minor f.d. py and cpy (up to 0.75%).		2801	32	.4	72
63.5	EO-338	ANDESITE	Same as previous. Slight increase in sulphides.	F.d. cpy>py, qtz vein w/ small euhedral xals at 064/sv. Thin veinlets py, minor malachite.		985	9	.3	860
72.0	EO-339	ANDESITE	py>cpy. Heavily oxidized zone. Rock is slighter coarser grain (f to m) and much more weathered. Minor hem and f.g. biotite still present.	Mod to high orange Fe oxid'n. Py and cpy f.d and along microfractures. Trace malachite. Thin specular hem stringers.		2068	27	.7	45
76.0		ANDESITE	Highly weathered. Pale gray to white, more bleached than previously. F.gr. to aphinitic	Gobs of py, high Fe and Mn oxid'n. Rubbley stockwork fractures. Thin specular hem stringers.					
80.5	EO-340	ANDESITE	Pale to medium gray. Lose the salt and	Tr. f.d. cpy, thin specular hem stringers.		695	6	.3	19
93.0-130.0		OVERBURDEN	END OF TRENCH.						

Trench # TR-97-63	Property: Hearne Hill
Location: Old road at lower edge of Hearne Hill, 10408 W, 10103 S	Sampled by: EO, KM & Bob to 147 m. DM
Elevation:	Date Started: September 27, 1997
Purpose: To uncover the up-ice source of the 1996 geochemistry anomaly.	Date Completed: October 14, 1997

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Trench # TR-97-63

Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0.0	30.0		OVERBURDEN	Thick (2.5 m) of overburden (debris flow over till).						
30.0	31.0	EO-352	BFP	Weathered giving a dark gray appearance. 30-40% blocky subhedral feldspars, 4% dark biotite books. 5% f.g. biotite in matrix. Occasional qtz stringers.	Veinlets if cpy.		755	31	<.3	7
34.5	35.5	EO-353	BFP	Similar to above. Slighter more feldspar xals. Fine grain biotite in matrix (10%).	Rare cpy veinlets with qtz stringers.		1865	36	.7	7
34.5	35.5	EO-354	BFP	Same location of above, 1 cm thick vein of cpy and tr. malachite w/ qtz.		152/85	18136	628	4.6	14
42.0	43.0	EO-355	ALTERED QUARTZ DIORITE	Highly altered c.g. intrusive. 30-40% qtz forming irregular anhedral xals in between masses of bleached kaolinite clay.	Malachite on surfaces. Relatively hard. F.d. cpy > py and locally abundant py > cpy on fractures. Sample taken perpendicular to the strike of msv cpy w/ qtz.		4242	240	.8	25
44.5	45.5	EO-356	ALTERED QUARTZ DIORITE	Light pale gray, same as above but with relict feldspar lathes altered to clay.	Thin cpy veinlet in a 2 cm chalcedony vein. F.d py 1-2%. Strong orange Fe oxid'n.	min. vein 325/80	2582	94	.6	24
47.5		EO-357	ALTERED QUARTZ DIORITE	Similar to above. Approximately 30% qtz xals but with abundant qtz flooding of the rock (silicification). Likely bleached and then silicified.	py > cpy. Locally, up to 1% of f.d. and sugary masses of sulfides. Minor malachite.		3628	90	.9	22
51.0		EO-358	ALTERED QUARTZ DIORITE	30% qtz, remainder is whites, clay-altered lathes of feldspar and clay altered mafics (minor).	Thin qtz stringers with cpy > py and 0.5% f.d. cpy > py. Cpy and py on major fractures. Thin microveinlets of qtz. Minor red specks of hem.		1529	30	.4	14
	56.5	EO-360	"	minor qtz flooding. Weathered.	abund. specular magn. peppered		1441	37	0.5	6
56.5	60.0		OVERBURDEN		throughout. Mal. on surface					

Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structu
60.0	63.0	EO-381	ALTERED QUARTZ DIORITE	Strong Fe oxid'n on surfaces. Very siliceous. Dark gray. Translucent with 10% light gray to white, irregular blobs.	Cpy in thin microveinlets, f.d. and occasionally on fracture surfaces.	
63.0	77.5		OVERBURDEN	Thick till blanket		
77.5	78.3	EO-435	ALTERED ANDESITE	Silicified, altered (bleached) andesite. Translucent grayish-white.	Thin veinlets of py. Mild hematite alteration. 2% granular masses of py, up to 0.5% f.d. cpy. Blocky fractures.	
78.3	80.0		OVERBURDEN	Till		
80.0	81.0		ANDESITE	Dark gray, v.f.g massive andesite.	Partly siliceous, very hard, py in blebs, minor cpy.	fract 3C
84.0	85.0	EO-436	MAFIC DYKE	Dark blue gray. Fine grain with 20-25% thin hornblende lathes (0.2 mm wide). On east side of trench, the hornblende lathes are absent. 5-25% (?) weathered blocky feldspar xals and possibly relict hornblendes??	Locally very mild chlorite alteration. Feldspar xals (?) are orange-white (rusty). Looks slightly metamorphosed or structurally altered due to grooves on surfaces??	
85.0	122.5		OVERBURDEN			
122.5	129.0	EO-337	123.0 BFP	Fresh to altered BFP. Fresh BFP is dark blue-gray w/ 3% euhedral black biotite 1mm, 35% subhedral to anhedral (circular) white feldspars. When altered feldspars are altered to white clay, biotite altered to sericite in a slate gray matrix.	3% sulfides roughly 30:70 py to cpy. Cpy also occurs in small gobs 2-3 mm. Orange Fe oxidation on exposed surfaces. Rock is weathered b/w 122.5 -129.0 m with thick (3.0 m + of overburden.)	
129.0	130.0		MAFIC DYKE	Similar to previous mafic dyke. Very dark gray matrix. 20%, partially altered blocky feldspar xals.		
130.0	132.0	EO-438	ALTERED ANDESITE	Irregular color and texture. Fine grain, light to dark gray. F.g. biotite in the matrix.	F.d. and granular masses of cpy (1%+) and lesser amounts of py. Silicified and bleached. Minor red hematite alteration.	fract 11 002/90
132.0	134.0		OVERBURDEN	Till		

Meterage		Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
134.0	135.0			MAFIC DYKE ??	Weathered rock, likely bedrock. Similar to the previous description for the dyke.						
137.0	141.5	EO-439	137.5	ALTERED ANDESITE	Moderately bleached, variable shades of white to gray. Salt and pepper texture (f.g. biotite). Odd "inclusions" of BFP in the andesite, perhaps close to a contact not exposed in the trench??	Mildly siliceous, hematite alteration and occasional stringers. 1%+ f.d. cpy, <0.3% f.d. py.	fract 090/90	3082	1	.4	29
141.5	147.0	EO-440	142.0	ALTERED ANDESITE	Same as previous.	Mild hematite alteration and red speckles. Approx. 1% cpy. Malachite.		2901	1	1.0	15
147.0	148.0	EO-441	147.0	ALTERED ANDESITE	Similar to above. Mottled salt and pepper texture due to bleaching and fine grain biotite.	Mildly siliceous. Malachite on surfaces and 1%+ cpy in fine disseminations.	fract 060/85 300/90	2174	1	1.0	15
148.0	160.0	DM-119		Andesitic Hornfels	f.g., silicified, v. hard, hem + mag in veinlets, some areas appear c.g. depending on hornfelsing of material, bedrock poorly exposed in trench, few clasts of BFP in till mainly fractured and weathered angular frags.	potassic alt'n overprinted with weak clay-bleaching, seric, carb throughout, blebs of cpy and diss py throughout, cpy-py, <1%		1973	23	.3	15
			153			area of cpy in veinlet with malachite staining, and minor bornite along fracture area sampled Mn in dark thin to thick veins throughout trench					
			156			su's mainly along veinlets as diss. f.g. py					
160	170	DM-120		Andesitic Hornfels	v. siliceous, similar to above, few areas of veinlets with massive cpy and carb in veins	strong FeOx, mainly diss cpy in stckwk texture, few areas lightly bleached		23167	1100	5.0	30
		DM-121	169	soil sample	taken 2 m below sfc, in basal till, overlain by 1.5 m Cb,	Mv, s.r. to s.a. clasts, compact material, 80% matrix, several liths- andesite, cong. S.St., BFP weathered, lot of FeOx, striations on stones, good fissility and jointing, med brown color, high density		349	12	.6	11
170	180	DM-122		Andesitic Hornfels	light gray, stck wk. texture, hem staining	py as irregular veneers on fractures, py>cp, py=1%, few blebs of cp<3 mm dia., cp<<1%		1646	17	.5	42

Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
		177			cpy increases as small irreg. stringers, alteration increases more seric-clay in rock					
180	190	DM-123	Andesitic Hornfels	light gray, f.g., weakly magnetic	hem-carb-qtz in veinlets, diss py throughout		3022	626	.8	17
		185	Andesitic Hornfels	more massive than previous, fewer veinlets	less clay alt'n					
		186	Andesitic Hornfels	trench 2.5 m deep, more veining in trench	cpy as f.g. diss ~1%					
190	196	DM-124	Andesitic Hornfels	numerous interlocking fractures, trench 3 m deep,	same alt'n as before, py~1%, cpy as irreg stringers <1%,		3247	64	.9	68
		DM-125	195 soil sample	1.5 m Cb overlying 1m Fg on top of .75 m Mb, Cb is well sorted sand in areas frags. of andesite throughout	malachite on some angular frags. of andesite, s.a. shaped clasts, Mb sampled - medium brown diamicton, a. to s.r. clasts, CS texture, 60% matrix		155	4	<.3	7
195	200		slumped	E.O.T. , along old road where there is a break in the slope, 10440w, 8920s						
			test pits	2 test pits to west of TR-63, switchback at E.O.T., travel on a bearing 205 degrees						
		DM-126	220 Andesitic Hornfels	similar to that in TR-63, minor stockwork appearance, hem+mag -weakly magnetic, f.g. blot abundant, light gray, f.g.	su's -f.g. diss py, in 10 m test pit -3.5 m deep, 2.5 m Cb- wr ;casts of various liths and striated, underlain by 0.75 Mb		310	7	<.3	20
		DM-127	270 test pit	path strikes 220 degrees, loc'n 10485w, 9970s, pit approx. 10 m length, 1.75 m cut, .75 m Cv/1.0 m Mb	med. brown weakly FeOx, 60-70% matrix, compact, mod. density, good fissility, most clasts s.r., SC text, striated stones abundant, liths.-S.St., andesite, green volcanics (lapilli tuff?)		119	3	<.3	4

Trench # TR-97-64	Property: Hearne Hill
Location: Old road across creek	Sampled by: Erin O'Brien & Gordon Weary
Elevation:	Date Started: October 4, 1997
Purpose: to locate up-ice source of geochemical anomalies	Date Completed: October 5, 1997

From	To (m)	Sample	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure	Cu ppm	Au ppb	Ag ppm	Mo ppm
0	5.0			OVERBURDEN	Thick (2 m+) overburden (fill).						
5.0	8.0	EO-374	8.0	QUARTZ DIORITE	40-45% shiny feldspar xals, 10% qtz, 35-40% f.g. biotite.	Mild Fe oxid'n. Moderately fractured. Crumbly.		128	4	<.3	36
	7.8	EO-375			Structure with Fe oxid'n, veining. Weathered and crumbly. Diorite is partially bleached and clay altered.	Highly fractured. Increased clay alt'n.	020/v	343	13	.6	58
8.0	16.0			ALTERED QUARTZ DIORITE	Moderate to intense clay alt'n (kaolinite) of feldspar and biotite xals.						
16.0	20.0			OVERBURDEN	Note: at 18.5m, cross center of upper trench switch-back.						
20.0	31.0			QUARTZ DIORITE	Same as previous quartz diorite.						
31.0	31.5	EO-376		ALTERED QUARTZ DIORITE VEIN ZONE	High-grade sample with approximately 5% py (possibly minor cpy?) in a highly bleached, clay altered, Fe-Mn oxidation zone.			121	8	1.3	40
31.5	34.0	EO-377	31.5	QUARTZ DIORITE	Relict hornblende replaced by biotite. 10-15% f.g. biotite. 10-12% qtz and 50% mildly clay-altered feldspar xals.	Thin microveinlets of py.		52	3	<.3	2
34.0	43.0	EO-378		ALTERED QUARTZ DIORITE	White to pale gray. Clay altered feldspar xals. Similar to other altered description.	5-7% py in thin stringers.	fract 255/42	43	2	<.3	72
43.0	50.0	EO-379		ALTERED QUARTZ DIORITE	Similar to above. 10% unaltered qtz xals. Feldspar xals are mildly clay altered (to kaolinite).			105	10	<.3	73

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Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Stru
50.0	54.0	EO-380	ALTERED QUARTZ DIORITE	Coarse-grain intrusive. Clay altered and bleached.	3-5% py veinlets.	
54.0		EO-381	QUARTZ DIORITE	Very coarse-grained intrusive. Large biotite 5-7 mm.		frac 305
60.0	68.0	EO-382a	QUARTZ DIORITE	Duplicate sample.	Fe and Mn oxides along fractures. Highly bleached, fractured and weathered at 68.0 m.	frac 310
60.0	68.0	EO-382b	QUARTZ DIORITE			
68.0	80.0	EO-383	QUARTZ DIORITE to ALTERED QUARTZ DIORITE	at 70 m: abundant qtz veinlets. Altered rock begins at 73.0 m.	Biotite xals are altered to sericite. Light pink (Fe) and green stain (mild chl alteration). 5% f.d.. py.	frac 240 000
80.0	95.0	EO-384	QUARTZ DIORITE	Fresh qtz diorite consists of 20-25% euhedral black biotite, 5% but up to 10% qtz., minor relict hornblende xals and 50-60% feldspar.	Not magnetic. Rare xenoliths of f.g. dark mafic unknown, likely containing abundant f.g. biotite.	340 81,
95.0	110.0	EO-385	QUARTZ DIORITE	Similar to above. Slightly finer grain biotite. Increase fracturing and small fault. Minor bleaching at 107.0 m.	Increase in Fe oxidation. Yellow stained and intense orange Fe-oxides on surface. Py veinlets locally occurring to 2-3%.	frac 130 plan 270 Slick horiz subt
110.0	125.0	EO-386	QUARTZ DIORITE becoming ALTERED QUARTZ DIORITE	Minor local bleaching and silicification. At 124.0 m, altered qtz diorite. Pale gray to white. Relict biotite is altered to sericite. Minor chl alteration.	119 m: Vertical bleached, heavy Fe-Mn zone. 123-125: 3% py stringers.	130 190
125.0	140.0	EO-387	ALTERED QUARTZ DIORITE	Bleached white w/ qtz stringers. Rare original biotite (mainly altered to sericite).	Completely clay altered except silica. 5% qtz stringers. 2-3% f.d.. py and stringers.	330
		EO-388	133.0 ALTERED QUARTZ DIORITE	High grade sample with 1-10 cm py veinlets and f.d..	Roughly 10% py in sample, mainly occurring with qtz veins.	
140.0	165.0	EO-389	QUARTZ DIORITE to ALTERED QUARTZ DIORITE	Fine-grain diorite. 10-15% f.g. biotite or chlorite (very soft). 20% qtz, 60% mild to moderately bleached (kaolinite altered) feldspar. Becomes medium grain intrusive at 160.0 m. Biotite is altered to chlorite (30% and may include hornblende to chlorite.	Blebs of py, up to 1%.	030
				END OF TRENCH at 160.0 m		

AC #: 97-6038

Trench # TR-97-65	Property: Hearne Hill
Location: Switchback between creeks.	Sampled by: Erin, Dave and Kieran
Elevation:	Date Started: October 6, 1997
Purpose: to locate up-ice source of geochemical anomalies	Date Completed: October 6, 1997

From	To (m)	Sample	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure	Cu ppm	Au ppb	Ag ppm	Mo ppm
0	10.0			OVERBURDEN	Thick (2 m+) overburden (till).						
10.0	20.0	EO-390		ALTERED QUARTZ DIORITE	Coarse-grained intrusive. Bleached and clay altered. 10-20% qtz. Plag to kaolinite. Heavily bleached b/w 14-15 m.	Mod Fe oxidation throughout trench. 2-3% f.d. py (more might be weathered out?).		45	4	<.3	3
20.0	40.0	EO-391		ALTERED QUARTZ DIORITE	Less altered than previous. Medium-grained.	Mild chlorite alteration of mafics (mainly biotite). Siliceous. Weakly fractured throughout.		38	2	.3	4
40.0	60.0	EO-392		ALTERED QUARTZ DIORITE with sections of QUARTZ DIORITE	Blurry, indistinct texture. White to pale gray, highly bleached.	3-4% f.d. py. Crude halo surrounds py. of f.g. dark unknown. Likely biotite.		62	4	<.3	3
	46.0			ALTERED QUARTZ DIORITE	Dark unknown from above appears to be biotite.	4-5% f.d. py. Mild hem. alteration in blobs, red.					
	51.0			QUARTZ DIORITE	Fresh and unaltered						
	54.0			ALTERED QUARTZ DIORITE	Feldspar xals altered to sericite. Translucent due to silicification.	Bleached and siliceous. 5%+ f.d. py.					
	59.5			QUARTZ DIORITE	Fresh biotite (20%) and qtz (10-15%). Fresh feldspar xals.	Intensely weathered.					
60.0	80.0	EO-393		ALTERED QUARTZ DIORITE	Coarse to medium grained. 20% biotite: altered partially to chlorite, 10% fresh qtz, 60% feldspar, partially altered to clay.	Minor red hematite specks. 0.5% f.d. and blebs of py.		106	28	<.3	11
	64.0			ALTERED QUARTZ DIORITE	biotite altered to chl. Fresh feldspars.	3-4% f.d. and stringers of py.					
	72.0			ALTERED QUARTZ DIORITE	Pale gray. Moderately bleached. Irregular biotite altered to chlorite. Blurry texture.	3-4% f.d. and masses of py. Hand sample.					
74.5	76.5			ALTERED QUARTZ DIORITE	Highly fractured zone. Subvertical vein with abundant Fe-Mn oxidation. Bleached adjacent to fractured zone.	qtz and py vein. Py vein is 1-5 mm wide, with msv masses of py and occasional euhedral xals.	py vein and fract zone 252/82				

Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure	Cu ppm	Au ppb	Ag ppm	Mo ppm
76.5	80.0		ALTERED QUARTZ DIORITE	Mild green tinge due to chlorite alteration. Some darker areas with blurry texture, likely f.g. biotite (10%). Fresh qtz, very mildly altered feldspar.						
80.0	100.0	EO-394	ALTERED QUARTZ DIORITE becoming QUARTZ DIORITE	Bleached, mildly siliceous. Mild chl alteration (similar to above, 5%).			188	8	.4	4
84.0	100.0		QUARTZ DIORITE	Medium to coarse grain. 20% biotite (with very mild to no chl alteration); 10-15% fresh qtz; 50-60% fresh feldspar.	2-3% f.d. py throughout.					
100.0	120.0	EO-395	QUARTZ DIORITE with sections of ALTERED QUARTZ DIORITE	20-25% fresh biotite, some large up to 5 mm; 10-15% fresh qtz. 60% feldspars, with very mild clay alteration.	Tr. py blebs.		221	3	<.3	20
108.0	114.0		ALTERED QUARTZ DIORITE	Bleached section. 15-20% fresh qtz, 60-65% sericite	Abundant py between 110-114.0 m. 5-10% py smeared on fractures mainly. 5% qtz stringers.					
114.0	116.0		QUARTZ DIORITE	Fresh.						
116.0	117.5		ALTERED QUARTZ DIORITE	Blurry texture. Black f.g. biotite form crude halos around feldspar and qtz xals and replaces primary biotite	3-4% f.d. and blebs of py.					
117.5	120.0	EO-398	FAULT	Fault zone. Highly fractured and planes with slickensides. Bleached adjacent to the fault.	Strong clay alteration, especially on fault planes.	Fract with slicks: 272/60. Main zone: 000/85	794	19	.3	34
120.0	133.0	EO-396	QUARTZ DIORITE	Medium-grained. Feldspar, qtz fresh. 15-20% biotite, some fine grain.	Mildly siliceous.		437	20	<.3	9
133.0	146.0	EO-397	ALTERED QUARTZ DIORITE	Coarse-grained. Large biotite books comprising up to 15%, minor secondary fine grain biotite occurs locally. Qtz augens 2-3 mm.	Heavy Fe and Mn staining. 1% f.d. and irregular blebs of py. Occasional py along fractures. Minor malachite at 142.0 m on fractures.	fract. 090/52	705	22	<.3	8
				END OF TRENCH at 146.0 m						

Trench # TR-97-66	Property: Hearne Hill
Location: across creek in wedge of diorite with a series of switch backs, start at 10140w, 9600s	Sampled by: David MacDougall & Kieran M.
Elevation:	Date Started: 10/8/97
Purpose: to test till geochem anomaly up-ice	Date Completed: 10/8/97

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0 m			loc'n 10140w, 9600s, strikes 170 degrees						
0- 220 m		diorite	c.g., qtz~30%, fspars~50-60%, biot books~10-15% -well developed up to 4 mm in diam., trench is approx. 2m deep with 0.7 m of overburden (Cv)	weak to moderate FeOx, usually very competent in areas where sfc, weathering has not created a gros-like material with grainy relict qtz, trace diss. py, v.f.g. throughout interstices of grains in rock, no cpy evident	fractures at several different angels, few very large fractures				
				most rock is moderately alt'd with weak argillic alt'n mainly seric-clay, chl clouds several grainy areas with less FeOx					
0-20 m	DM-109	diorite (alt'd)	same as above	9-14 m, more intense FeOx, alt'n, rock somewhat softer with relict pieces s.a. shape, Mn groundwater staining evident, py more abundant than other areas as irreg. masses up to 1.5% surr. by carb., stronger med. argillic alt'n, seric-clay	area is probably a principal fracture system, strikes 040/sv	72	1	<.3	3
20-45 m	DM-110	diorite	same unit as above, less biot evident, few xenoliths of andesite in diorite, fspars mainly plag.,	stronger seric alt'n, minor chl coloring along edges of fspars, py f.g. diss. less 2 mm dia.		176	4	.3	11
at 45 m			trench stops for switch back						
45-60 m		diorite	switch back begins at 60 m (9650w, 10150s), road cut indicates diorite, no sample						
at 60 m		diorite	switch back begins trench starts road cut, trench strikes a125 degrees, trench 1.5-2.0 m deep, 0.5 m Cv over br.						

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Trench # TR-97-66

80-100 m	DM-112	alt'd diorite (QBFP)	same unit as above, qtz very abundant, >30%, in some areas	rock slightly more alt'd product of the sfc. environment, weak argillic alt'n	fractures slightly n abundant
at 100 m		andesite	small xenolith of andesite 20 cm dia., medium gray color, siliceous, surrounded by alt'd diorite	andesite unaltered, diorite on either side somewhat bleached	
100-126 m	DM-113	alt'd diorite	same as before, slightly deeper overburden, with rounded stones, up to 2 m deep with br on bottom	similar to other alt'd diorite	
at 118 m				alt'd and fractured, rubbly for 1 m abundant FeOx staining	
126-140			trench ends for switch back, side cut indicates diorite, at 140 m switch back is at 10190w, 9605s		
140-150	DM-114	alt'd diorite	same as before, trench strikes 010 degrees, less <2 m deep overlain with 0.5 m Cv	same as before	
at 149 m			15 cm wide fracture filling of Mn and goethite, layered	very alt'd around sec'n, seric-clay	strikes 064@-6 dip
150-160 m	DM-115	alt'd diorite	same as before,	same as before	
160-180 m	DM-116	alt'd diorite	same as before, trench strikes 188 degrees to the end of the trench, usually shallow overburden <0.4 m	fairly fresh to moderate FeOx, more alt'd areas show little blot.	
180-200 m	DM-117	alt'd diorite	same as before, massive diorite body, thin till layer injected into bedrock cracks	same as before	
200-226 m	DM-118	alt'd diorite	same as before, trench deepens	trench deeper in stronger argillic alt'd areas	
at 209 m				py abundant in veinlets as veneers and stringers	set of fracture strike n 75

226-241 m			E.O.T., it connects to the old road at 10180w, 9740s						

Trench # TR-97-67	Property: Hearne Hill
Location: On west side of the creek, trench begins at 10400 W, 9787 S.	Sampled by: Erin, Kieran and Bob
Elevation:	Date Started: October 11, 1997
Purpose: to locate up-ice source of geochemical anomalies	Date Completed: October 11, 1997

From	To (m)	Sample	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure	Cu ppm	Au ppb	Ag ppm	Mo ppm
0	30.0			OVERBURDEN	Thick (2 m+) overburden (till mainly with minor washed till). Samples EO-399 to 401.						
30.0	41.0	EO-410		ALTERED QUARTZ DIORITE	Coarse-grained intrusive. Pale gray. 30% qtz (1-3 mm irregular augens). Plag to kaolinite. Biotite to sericite.	Mod to high Fe oxidation throughout trench. Bleached and clay altered biotite and feldspar. 3-4% f.d. and stringers of py.	029/78				
		EO-410	37	ALTERED QUARTZ DIORITE	Very crumbly	Mild chl alteration of mafics.	015/73				
41.0	44.0	EO-410	40	Weakly ALTERED QUARTZ DIORITE	15% brown (weathered) biotite. Weak clay alteration.	Highly weathered		132	7	.6	3
		EO-410	41	Weakly ALTERED QUARTZ DIORITE	Feldspar is altered to clay; 15% biotite, 20%+ qtz.						
44.0	45.5	EO-410				Bleached zone with intense Mn staining vein	vein 070/82				
45.0	60.0	EO-411		QUARTZ DIORITE	10% qtz, 20% large euhedral biotite and minor < 1mm f.g., shiny fresh feldspar.	Trace sulphides.					
		EO-411	52.5		Same as above.		fract 144/85	47	3	<.3	1
		EO-411	56.5		Increase in fine grain biotite		fract 225/52 140/83				
60.0	65.0	EO-412		ALTERED QUARTZ DIORITE	Moderately bleached. Biotite to sericite.						
65.0	75.0	EO-412		QUARTZ DIORITE	Biotite is fine grain or euhedral 1-2 mm (20-35%); 10% qtz, 50% fresh feldspar.	Mild chl alteration of mafics. 1% f.d. py.		28	1	<.3	1
74.0	75.0	EO-412			Fractured zone						
75.0	80.0	EO-413		QUARTZ DIORITE	Abundant fine grain biotite						
80.0	84.0	EO-413		Weakly ALTERED QUARTZ DIORITE	Weakly clay altered feldspar. 20% f.g biotite		Fract 158/72	13	3	<.3	6
		EO-413	84		Mildly clay altered feldspar.	5-4% f.d. py. Biotite altered to sericite.	Fract 021/90				
85.0	90.0	EO-423		ALTERED QUARTZ DIORITE	Bleached zone. White, Highly altered parallel to fractures.	At 88.0 m, 1 cm wide py vein sampled as high-grade.	py vein 300/64				
					90.0 m END OF TRENCH						

AC #: 97-6160

Trench # TR-97-68	Property: Hearne Hill
Location: Switchback between trenches 67 and 65.	Sampled by: Erlin, Bob and Kieran
Elevation:	Date Started: October 11, 1997
Purpose: to locate up-ice source of geochemical anomalies	Date Completed: October 11, 1997

From	To (m)	Sample	m	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structure	Cu ppm	Au ppb	Ag ppm	Mo ppm
0	15.0	EO-414		ALTERED DIORITE	Bleached white, highly altered. 10-15 fresh qtz augens.	Sericite and clay alteration. 5% + stringers of py.		131	9	.8	22
15.0	19.0	EO-415		ALTERED BFP	Tan-grayish matrix. 30-35% feldspar with mild-mod clay alteration. Biotite to sericite.	4-5% f. to m. disseminated and masses of py. Locally siliceous b/w 17.0 - 19.0 m.					
19.0	30.0	EO-415		ALTERED DIORITE	Coarse-grain, bleached to white-pale gray.	Feldspars are mildly altered to clay, Biotite to chlorite. 3-4% m.d. py.	fract 340/84	70	2	<.3	2
		EO-415	24	ALTERED DIORITE	Highly fractured zone						
27.0	30.0	EO-415		ALTERED DIORITE	Highly fractured zone						
30.0	40.0	EO-416		ALTERED QUARTZ DIORITE	Moderate to highly bleached, pale white to gray. Locally up to 5% fine grain and swarms of biotite.	0.5 to 1% f. to m. disseminated py.					
40.0	45.0	EO-416		QUARTZ DIORITE	Medium to coarse grain intrusive. 25-30% biotite.	Tr. py.		106	7	<.3	19
45.0	47.0	EO-417		QUARTZ DIORITE	Same as above.	3% f.d. py.					
47.0	60.0	EO-417		ALTERED QUARTZ DIORITE	Bleached white but hornfelsed and hard. Blurry texture.	Bleached, locally hornfelsed or silicified. 3-5% f.d. and rare stringers of py.		124	6	.3	6
49.5	51.5			OVERBURDEN							
51.5	60.0			ALTERED QUARTZ DIORITE	Bleached	3-4% f.d. and stringers of py					
60.0	65.0	EO-418		Weakly altered QUARTZ DIORITE	Blurry texture. Fine grain and euhedral biotite (15%).	4-5% f.d and masses of py.		85	9	<.3	7
65.0	75.0			OVERBURDEN	Mainly till with occasional subcrop of altered diorite.						
75.0	90.0	EO-419		ALTERED QUARTZ DIORITE	White to pale gray, altered to give blurry texture. Feldspar is mildly altered to clay. Minor masses of f.g. biotite.	5% f.d. and masses of py forming an interconnected network.		109	9	.3	11
			85		Overburden becomes thinner again (less than 100 cm.)						
90.0	97.5	EO-420		ALTERED QUARTZ DIORITE	Same as previous description.		fract. 123/67	189	—	<.3	8

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Meterage	Sample #	m	Rock Type	Rock Description	Mineralization, Alteration, etc.
97.5	101.0	EO-420	QUARTZ DIORITE	Medium grain with xals 0.5 to 2.0 mm. Occasional larger biotite xals 2-3 mm. 15%	2% f.d. py
101.0	104.0	EO-420	Weakly altered QUARTZ DIORITE	Weak clay alteration. Hard and resistant.	Mildly siliceous. F.g. and masses of py to 4%
		EO-420	104 Weakly altered QUARTZ DIORITE	Mn veining and bleached zone.	
104.0	105.0	EO-420	ALTERED QUARTZ DIORITE	Moderately bleached, biotite altered to sericite.	Highly fractured area.
105.0	110.0	EO-421	ALTERED QUARTZ DIORITE	Same as previous.	
110.0	117.0	EO-421	QUARTZ DIORITE	Medium grain intrusive. 20% euhedral and f.g. biotite. 10% qtz.	Trace py.
117.0	120.0	EO-421	Weakly altered QUARTZ DIORITE	Mild clay alteration of feldspar. 10-15% biotite.	3-4% f.d. py
120.0	125.0	EO-422	Weakly altered QUARTZ DIORITE	Blurry texture. 5% f.g. biotite. 15-20% qtz. 60% mildly altered feldspar.	Much more Mn than observed in this trench. 5% f.d. py (some tarnished or possibly cpy?). Locally biotite is altered to chlorite.
125.0	130.0	EO-422	Weakly altered QUARTZ DIORITE	Increase in biotite: 15-20% swarms and masses of f.g. biotite.	Mild chlorite alteration.
130.0	133.0	EO-422	QUARTZ DIORITE	25% f.g. biotite.	Strong Mn staining. Trace malachite on fractures.
133.0	140.0	EO-422	Weakly altered QUARTZ DIORITE	Coarse grain. Mild to moderate clay alteration of feldspar.	Trace malachite on fractures at 130.0 m.

Trench # TR-97-69	Property: Hearne Hill
Location: start 3 m east TR-63 at 195 m (E.O.T. TR-63 at 10440w, 9920s)	Sampled by: Dave M., Kieran M., Bob
Elevation:	Date Started: 10/14/97
Purpose: to trench old road and extend copper halo	Date Completed: 10/14/97

Meterage	Sample #	Rock Type	Rock Description	Mineralization, Alteration, etc.	Structures	Cu ppm	Au ppb	Ag ppm	Mo ppm
0-5 m			over burden no sample taken						
5-15 m	DM-128	andesitic hornfels	f.g., light gray, hem and f.g. biot. dusting throughout silicified stockwork, veinlets 1-2 mm with hem, trench is approx. 2 m deep - Cb/Mb/R	chl around some veinlets, carb. throughout on fractures, with f.g. py		1007	23	.4	18
at 10 m			magnetic veinlet, no hem						
15-25 m	DM-129	andesitic hornfels	same as before, minor hem dusting, f.g. to m.g. material, large angular clasts of andesite in overburden in Cb	same as before py>>cpy, minor seric alt'n, weak argillic		888	32	.3	15
25-35 m	DM-130	andesitic hornfels	same as before	f.g. diss. py, Mn staining prominent		949	44	.4	22
30-44 m				jarosite material, trench 2.2 m deep with 1.2 m Cb over weathered br (jarosite), brownish yellow color, v. soft material	increase in stockwork fractures				
at 34 m				veinlets of strong cpy with malachite, cpy irregular veneers of on fracture sfc. <1%					
35-45 m	DM-131	andesitic hornfels	same as before	few strongly FeOx clasts in the till		2106	54	.6	19
at 36 m				malachite staining on fracture sfc.	veinlets principally 035/sv				

at 40 m					numerous fracture sets and fillings 140 se and 040 ne				
at 44 m			loc'n 10400 w, 9955s						
45-55 m	DM-132	andesitic hornfels	numerous interlocking veinlets in andesite, v hard siliceous	~1% cpy over some short areas		724	24	.6	20
at 50 m				diss. cpy and malachite on fracture sfc.					
54-72 m		Microporphyrritic andesite/ BFP dike	extremely soft and weathered, hardness <1, relict anhedral fspars~20-50%, f.g. groundmass surr. by an alternate mafic composition, biot books dark gray color <2 mm	int. to advanced argillic alt'n, diss. py throughout, trace malachite staining along fractures					
55-65 m	DM-133	BFP dike	same unit as before, mainly fresh euhedral fspars	weak argillic alt'n in competent areas, seric-clay+chl,		513	14	.3	9
at 63 m		Mafic Dike	f.g. dark material with few small phenocrysts, about 1 m wide, unsure about strike and dip of dike, small needle like xtals could be plagioclase laths	minor FeOx on sfc.					
65-75 m	DM-134	BFP dike/andesitic hornfels	same unit as DM-133, but contact stops at 72 m and becomes andesitic hornfels	weathering rhines on clasts throughout Mb/R interface, andesite is weakly alt'd propylitic minor seric-clay.		714	56	.3	6
at 71 m		Mafic dike	small area of mafic dike similar to that before, outcrop in a small 30 cm sec'n						
at 72 m			3 m trench slumped in						
75-83 m	DM-135	andesitic hornfels	light gray mottled in areas, hem staining very strong	intermediate argillic overprint on stockwork, seric-clay, carb,		1386	65	1.0	10
at 83 m				cpy on fracture sfc. as irreg. splashes of line veinlets interlocking one another					

at 86 m	DM-136	Mb, compact	dense, strong Fe Ox, good fissility rd, arg - class. all sizes			85	4	<.3	3
90-100 m	DM-137	BFP microporphyry	f.g. fspars, in an abundant f.g. (>60%), BFP becomes regular and crowded near end of trench, few interlocking veinlets, well- developed biot books 2-3 mm in dia- black	int. argillic alt'n, seric-clay, carb, v.f.g. py		293	9	<.3	6
at 100 m			E.O.T., 10360w, 9985s						

Bedrock mapping data, 1997

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
11-Jun	AS/EO	11200	9630	andesite	greenish grey volcanic w/ oxidized surfaces. fine grained to aphanitic and vesicular.			
11-Jun	AS/EO	11200	9520	andesite	outcrops for 20m to the north on clearing on W side of hill; same as above, with 5% calcite veins			
11-Jun	AS/EO	11200	9480	andesite	Dark grey and amygdaloidal. Amygdules contain cal., qtz, and epid and rarely magnetite. Tr. to 0.5 % pyrite, malachite staining and Cpy.	EO-17	50	<2
11-Jun	AS/EO	11200	9325	andesite	Clearing w/ sparse outcrop. dark grey to greenish grey w/ local oxidation. F.gr. to aphanitic. Cal veins, f. disseminated py, local slicks. Magnetic.			
11-Jun	AS/EO	11215	9285	alt'd quartz diorite	Minerals: plag, qtz, mafics (?). fine grained intrusive. Cal veins, Fe oxid'n.			
11-Jun	AS/EO	11200	9200	alt'd quartz diorite	Minerals: plag, qtz, mafics. fine grained intrusive. Cal veins, Fe oxid'n, hematite staining, tr. py. Slightly finer grained than above.			
11-Jun	AS/EO	11200	9130	alt'd quartz diorite	Same as above two descriptions			
11-Jun	AS/EO	11190	9000	quartz diorite	outcrops to 8975S; Minerals: plag, qtz amphiboles, biotite. F.Gr. intrusive. Chl. alt'n of mafics, oxidation. Additional notes. 11200 line crosses creek at 9060 S. Then line follows road // to creek to 9025.			
11-Jun	AS/EO	11200	8800	quartz diorite	Incr. amount of qtz. Minerals: 25-35% qtz, 20-30% chl-alt'd mafics, 35-55% plag. Tr. py and possibly Cpy.	EO-18		
11-Jun	AS/EO	11215	8900	quartz diorite	same mineralogy as above. Fine to medium grain intrusive. Hem. along fractures			
11-Jun	AS/EO	11200	8825	quartz diorite	same mineralogy as above. Fine to medium grain intrusive. Hem. along fractures			
11-Jun	AS/EO	11200	8750	quartz diorite	Top of hill on outcrop ridge; increase in qtz content. Minerals: 35-40% qtz, 15-30 % chl-alt'd mafics, 35-55% plag. Fractures @ 030/V. Additional notes: End of o/c on this line, cross over to 11100 line.			
11-Jun	AS/EO	11135	8750	quartz diorite	On o/c ridge east of above; Hornfelsed and silicified. Minerals: 40-50% qtz, 10-15% chl-alt'd mafics, 40-50% plag.			
11-Jun	AS/EO	11115	8760	hornfelsed andesite	Dark grey, F.Gr. intermediate to mafic (?) w/ variable degrees of silicification and hornfelsing. Mod to high Fe oxid'n			
11-Jun	AS/EO	11100	8825	andesite	outcrop to 8860; dark greenish grey, F.Gr. volcanic w/ oxid'n. Minerals: qtz, plag and mafics, tr. py	EO-19	762	<2
11-Jun	AS/EO	11075	9025	andesite	similar to above. Highly oxidized surface. Additional notes: Cross creek at 9000 S.			
11-Jun	AS/EO	11100	9040	andesite	outcrop to 9155S; dark, F.Gr. intermediate to mafic w/ or w/out qtz veins. Fe oxides and chl alt'n present. Locally siliceous (i.e. 9155 S). Abundant fractures. Soft rock except when siliceous			
11-Jun	AS/EO	11060	9025	andesite	same as above			
14-Jun	AS/EO	9610	9710	hornfelsed andesite	grey fine grained mafic w/ silica alt'n, pyrite occurs along fracture surfaces, strong Fe ox alt'n on frac surfaces, w/dy hornfelsed with fractures @ 190/90	AS-10	37	<2
14-Jun	AS/EO	9590	9695	andesite	very fine grained to aphanitic mafic volcanic with local blebs of hematite and fractures @ 090/90 and 000/20			
14-Jun	AS/EO	9653	9800	andesite	fg mafic volcanic, weakly silicified with pyrite veinlets and hematite weathering	AS-18	14	<2
14-Jun	AS/EO	9680	9725	andesite	fine grained with pyrite			
14-Jun	AS/EO	9680	9710	andesite	fine grained with hematite			
14-Jun	AS/EO	9650	9775	andesite	fine grained; similar to above			
14-Jun	AS/EO	9600	9770	andesite	fine grained with pyrite	AS-19	6	<2
14-Jun	AS/EO	9640	9990	andesite	fine grained; similar to above			
14-Jun	AS/EO	9550	9835	hornfelsed andesite	aphanitic to vfg mafic volcanic w/py blebs; hornfelsed with local hematite alt'n and fractures @ 227/80	AS-20	435	<2
14-Jun	AS/EO	9560	10000	andesite	fg, green, wkly bxd, w/dy microfractured with pyrite and metallic hematite mineralization; located in a clear cut section	AS-21	307	<2
14-Jun	AS/EO	9550	9885	andesite	fine grained with trace pyrite			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
14-Jun	AS/EO	9550	9900	andesite	fine grained with blebs of hematite			
14-Jun	AS/EO	9650	9960	andesite	very fine grained			
14-Jun	AS/EO	9650	9940	andesite	aphanitic with trace pyrite			
14-Jun	AS/EO	9650	9875	andesite	fg greenish grey mafic volcanic with tr py (finely disseminated) and hematite; Fe ox alt'n at surface	AS-22	33	<2
1-Jul	AS/DM	9400	9670	andesite	fg, green with occasional pyrite specks; limonite weathering at the surface, and locally siliceous; slope is 22 @ 055			
1-Jul	AS/DM	9400	9700	andesite	aphanitic, silicified with tr pyrite			
1-Jul	AS/DM	9400	9730	andesite	strongly chloritized, w/dy silicified, dark green; minor quartz veining, an increase in the number of pyrite specks; some quartz grains are visible w/i matrix			
1-Jul	AS/DM	9400	9760	andesite	aphanitic to fg, silicified with microveinlets throughout; oxidized at surface; slope is 19 @ 065	AS-72	8	<2
1-Jul	AS/DM	9400	9870	andesite	fg greenish grey rim with a more crystalline silicified centre; increased pyrite content, with smal 1-4mm grains of unknown dark material ;locally magnetic	AS-73	56	<2
1-Jul	AS/DM	9400	9975	andesite	weakly hornfelsed 20 by 25m outcrop; fg, greenish grey, locally silicified and chloritized with variable amounts of magnetite; trace pyrite and specular hematite in < 2mm veinlets; fractures are 180/78 and 080/90			
1-Jul	AS/DM	9400	10000	andesite	20 by 40m outcrop, dark greyish green, coarser grained with local microporphyritic texture and tuffaceous sections; variable amounts of pyrite; strongly chloritized with increased carbonate veining, locally vuggy; weakly magnetic	AS-74	62	<2
1-Jul	AS/DM	9400	10050	microporphyritic andesite	20-30% subhedral feldspar crystals (< 3mm); strongly chloritized and weakly magnetic; finely disseminated specks of pyrite; hematite occurs along fracture surfaces; a large 2m boulder of cg sedimentary rock was found at 9400W, 10200S			
1-Jul	AS/DM	9400	10280	alt'd diorite	very coarse grained, dark green with plag crystals up to 4cm in length	AS-75	18	<2
1-Jul	AS/DM	9400	10300	diorite	very coarse grained outcrop 7 by 30m			
1-Jul	AS/DM	9400	10425	microporphyritic andesite	dark grey with < 3mm white porphyritic plag crystals; fracturing trends N-S; chloritized			
1-Jul	AS/DM	9400	10450	microporphyritic andesite	same as above			
1-Jul	AS/DM	9400	10485	diorite	very coarse grained diorite with 2-3cm plag crystals; unit is very hard w/ chlorite and silica alteration; occasional pyrite grains			
1-Jul	AS/DM	9500	10650	andesite	fine grained, green and chloritized			
1-Jul	AS/DM	9500	10575	microporphyritic andesite	hornfelsed with approx 30% well developed plag crystals; groundmass is dark green to black with 5% metallic hematite flecks	AS-76 hand sample		
1-Jul	AS/DM	9500	10400	microporphyritic andesite	same as above	AS-77	19	<2
1-Jul	AS/DM	9500	10365	diorite	coarse grained with chlorite alteration, no sulfides; fractures at 062/90			
1-Jul	AS/DM	9500	10340	diorite	fg with 40-50% mafics and 50% plag; very magnetic			
1-Jul	AS/DM	9500	10235	microporphyritic andesite	8 by 20m outcrop; grey with 30% < 3mm plag crystals; fairly unaltered with minor hematite mineralization			
1-Jul	AS/DM	9500	10200	microporphyritic andesite	same as above			
1-Jul	AS/DM	9500	10135	andesite	fine grained with a massive texture; chloritized with no sulfide mineralization			
1-Jul	AS/DM	9500	10115	andesite	same as above			
1-Jul	AS/DM	9500	10050	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			
1-Jul	AS/DM	9500	9975	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
1-Jul	AS/DM	9500	9850	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			
1-Jul	AS/DM	9500	9800	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			
1-Jul	AS/DM	9500	9760	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			
1-Jul	AS/DM	9500	9615	andesite	fine grained greenish grey, non magnetic relatively barren with chlorite alteration			
3-Jul	AS/DM	9900	9825	alt'd quartz diorite	mg-cg, green chloritized with > 10% qtz, 60% plag and 30-35% mafics; no sulfides; angular andesite boulder found at 9750W, 9950S: fg w/ py dispersed throughout, specular hematite and Fe ox @ surface, dk grey, non magnetic, wkly sil'd and chl'd			
					at 9900W, 9775S a boulder of felsic tuff (lapilli) > 1m diameter, 10-20% s.r. clasts 1mm-2cm andesitic composition, fg matrix, grey-green colour, with manganese staining			
4-Jul	AS/EO	10000	9230	andesite	grey with a greenish tinge, fine grained with local coarser sections showing plag crystal faces; weakly siliceous; no sulfides			
4-Jul	AS/EO	10100	9175	andesite	grey with a greenish tinge, fine grained with local coarser sections showing plag crystal faces; weakly siliceous; no sulfides			
4-Jul	AS/EO	10130	9175	andesite	grey with a greenish tinge, fine grained with local coarser sections showing plag crystal faces; weakly siliceous; no sulfides			
4-Jul	AS/EO	10200	9160	andesite	slightly coarser and more siliceous with trace pyrite			
9-Jul	AS/DM	11100	9100	diorite	abundant quartz, fg with very few mafics; felsic (possibly a granodiorite), veinlets < 1mm thick; Fe ox staining is wk to mod, no sulfides; aspect is 265 w/ dip of 35			
9-Jul	AS/DM	11100	9199	andesite	fine grained, grey; no sulfides			
9-Jul	AS/DM	11100	9200	diorite	coarse grained, fresh diorite with abundant quartz			
9-Jul	AS/DM	11100	9260	diorite	outcrop in open slope; mafic to intermediate in composition; no sulfides			
9-Jul	AS/DM	11100	9350	quartz diorite	colluvial fan bedrock; fg, greenish grey, siliceous, intermediate intrusive, very hard			
9-Jul	DM/SS	11100	9460	andesite	fg, green-grey with Fe ox staining at surface, extensive chlorite alteration			
9-Jul	AS/DK	11050	9300	quartz diorite	mg, fairly felsic (30-50% quartz, 30-40% plag) with strong hematite staining; no sulfides			
9-Jul	AS/DK	11050	9350	BFP	2m by 4m outcrop of med grey w/ approx 60% pink subhedral feldspar grains (colour due to hem staining), 2% dk brown to black biotite books, locally weakly alt'd; fg grey groundmass, wkly sil'd; no sulfides	AS-90	5	<2
9-Jul	AS/DK	11040	9330	diorite	mg with occasional feldspar laths; 20% qtz, 60-70% feldspar, 10% mafics (mainly fg biotite); limonite staining, wk chlorite alt'n and wkly magnetic	AS-91	24	<2
9-Jul	AS/DK	11050	9375	quartz diorite	fg-mg, felsic to int, w/ 60% feldspar, 10% quartz and < 10% mafics; wk fe ox staining			
9-Jul	AS/DK	11000	9425	BFP	barren BFP similar to sample AS-91			
9-Jul	AS/DK	11000	9710	diorite	mg with chlorite and iron oxide weathering; approx 10% quartz with trace pyrite			
19-Jul	AS/DM	10800	9910	diorite	fg, weakly silicified and chloritized with iron oxide alteration; occasional very thin pyrite veinlets			
19-Jul	AS/DM	10800	9895	altered andesite	fine grained with stockwork veining bearing pyrite and hematite; increased sulfide content; fractures at 040/90			
19-Jul	AS/DM	10800	9860	altered andesite	strongly hornfelsed, with large carbonate crystals; strongly magnetic; green chlorite and dark purple hematite alteration; cpy splash and malachite specks!	AS-92	76	<2
19-Jul	AS/DM	10800	9800	altered andesite	mg with some visible plag crystal faces; clay and chlorite alteration; magnetite and hematite mineralization			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
19-Jul	AS/DM	10800	9750	diorite	fine grained with approx 10% tiny biotite grains; chlorite alteration; magnetite and hematite, no sulfides			
19-Jul	AS/DM	10800	9680	BFP	subcrop (large pile of very angular boulders; medium grey with < 50% plag; weakly magnetic with disseminated pyrite throughout; 1-2% dark brown biotite; chlorite alteration	AS-93	13	<2
19-Jul	AS/DM	10800	9620	andesite	fine grained, dark grey with weak chlorite alteration			
19-Jul	AS/DM	10800	9510	andesite	fine grained, dark grey with weak chlorite alteration			
19-Jul	AS/DM	10800	9490	andesite	weak porphyritic texture; strong chlorite and hematite alteration; minor pyrite			
19-Jul	AS/DM	10800	9440	andesite	coarse grained, weakly silicified with fe ox weathering			
19-Jul	AS/DM	10800	9420	diorite	magnetic with chlorite alteration			
19-Jul	AS/DM	10860	9420	diorite	silicified with chlorite alteration			
19-Jul	AS/DM	10900	9450	andesite	fine to medium grained, chloritized and moderate silification; magnetic			
19-Jul	AS/DM	10900	9640	andesite	coarse grained with visible feldspar crystal faces; local chlorite and clay alteration; magnetic			
19-Jul	AS/DM	10900	9750	altered andesite	fine grained with jarosite, hematite and limonite alteration; significant amounts of py	AS-94	8	<2
20-Jul	DM/SR	10900	8900	hornfelsed andesite	silicified and weakly magnetic in stock work veinlets; abundant diss py and large blebs on fractures; there appears to be an old drill site at 10900W, 8500S (azimuth of 200, dipping 20); boulder (1m diametre) of sandstone at 10900W, 8700S	DM-10	48	3
20-Jul	DM/SR	10900	8960	hornfelsed andesite	greenish grey, fg to aphanitic with a massive texture; little or no pyrite			
20-Jul	DM/SR	10900	9250	hornfelsed andesite	outcrop in alpine slope @ 255 with dip of 36; greenish grey, fg with massive texture; no sulfides			
20-Jul	DM/SR	10900	9320	hornfelsed andesite	fine to medium grained, silicified with abundant fg biotite and chlorite; 2mm qtz augens; colluvial fan; carbonate and sparry calcite in veinlets and open vugs			
20-Jul	DM/SR	10900	9400	andesite	fg-mg (hornfelsing) weakly silicified, weak chlorite, weak iron oxide alt'n; non magnetic; no sulfides			
20-Jul	AS/SS	10700	8550	andesite	fg green to grey with iron oxide alteration at surface; no sulfides			
20-Jul	AS/SS	10700	8600	andesite	med grey, coarser grained, silicified with veining and weak microfracturing; hematite weathering			
20-Jul	AS/SS	10700	8650	andesite	same as above, but more strongly silicified; 10700 line is approx 25m E of the 10800 line and has a 50m difference in southing coordinates			
20-Jul	AS/SS	10800	8750	andesite	dark grey to green, fg, weakly silicified			
20-Jul	AS/SS	10800	8850	andesite	medium greenish grey, strongly magnetic with visible magnetite; iron oxide weathering; trace pyrite	AS-95	16	<2
20-Jul	AS/SS	10800	8865	diorite	very strongly magnetic; approx 20-30% mafics, 60% plag, and 10%; hematite and limonite staining; trace pyrite and occasional calcite veinlets			
20-Jul	AS/SS	10800	8950	andesite	fg greenish grey with 30% quartz, 50% feldspar, 20% mafics (mainly biotite and magnetite); coarse dioritic dyke, mainly carbonate, quartz and biotite	AS-96 hand sample		
20-Jul	AS/SS	10800	9000	andesite	fg, medium grey, and very silicified; manganese and iron oxide staining; no sulfides			
20-Jul	AS/SS	10800	9025	andesite	fg, sil'd and chl'd outcrop from 9025S to 9050S; fractures at 120/56; no sulfides			
20-Jul	AS/SS	10800	9050	andesite	10 by 10m outcrop; andesite flow; mainly fg dark green sil'd w/ local tuffaceous sections and a small (20cm) section with feldspar porphs; hematite (both metallic and opaque red) in veinlets			
20-Jul	AS/SS	10800	9090	andesite	fg, chl'd and weakly sil'd; magnetic			
20-Jul	AS/SS	10800	9200	andesite	medium grey, coarser grained, sil'd and weakly magnetic			
20-Jul	AS/SS	10800	9250	andesite	large outcrop (10 by 20m); cg, wky sil'd and weakly magnetic; slope is 30 @ 223			
20-Jul	AS/SS	10800	9400	andesite	cg, quartz rich, weakly magnetic; slope is 35 @ 220			
23-Jul	AS/EO	9800	9610	alt'd andesite	fg w/ clay alt'n pale to med grey, limonite, manganese oxide and hematite weathering -abundant veinlets, locally bearing py @side of road	AS-99	10	<2

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
23-Jul	AS/EO	9790	9565	andesite	fg hornfelsed andesite, greenish grey w/ red hem.-cpy and hem mineralization -silicified w/fe ox staining	AS-100	47	<2
23-Jul	AS/EO	9800	9560 9550	andesite	coarser grained andesite -dk green w/ mag & hem			
23-Jul	AS/EO	9800	9525	andesite	dark green chl'd andesite Fe Ox fg			
23-Jul	AS/EO	9800	9485	andesite	fine grained, greenish grey with minor tuffaceous sections; trace pyrite, magnetic; ATV road is crossed at 9800W, 9485S			
23-Jul	AS/EO	9800	9450	andesite (tuff)	very fine grained, chloritized and silicified; medium grey with finely disseminated pyrite			
23-Jul	AS/EO	9800	9420	andesite	very fine grained, chloritized and silicified; medium grey with finely disseminated pyrite			
23-Jul	AS/EO	9800	9345	andesite	reddish grey with microveinlets of calcite; very finely disseminated pyrite, metallic hematite; mainly plag with occasional quartz crystals; locally silicified	AS-101	2	<.3
23-Jul	AS/EO	9800	9320	andesite	medium grained, dark grey with occasional plag crystal faces; magnetic			
23-Jul	AS/EO	9800	9300	andesite	medium grained, dark grey with occasional plag crystal faces; magnetic; occasional 1-3mm quartz veins; weakly chloritized			
23-Jul	AS/EO	9800	9265	andesite	medium grained, dark grey with occasional plag crystal faces; magnetic; occasional 1-3mm quartz veins; weakly chloritized			
23-Jul	AS/EO	9800	9215	andesite	greenish grey, fine grained, chloritized; metallic hematite; fractures @ 320/64			
23-Jul	AS/EO	9800	9075	andesite	fine grained, dark grey with small metallic flecks of hematite; silicified with iron oxide weathering			
23-Jul	AS/EO	9800	9005	andesite	large 15 by 10m outcrop: dark grey, aphanitic, siliceous; no sulfides, weakly magnetic			
23-Jul	AS/EO	9805	8985	andesite	fine grained, greenish grey, chloritized and weakly siliceous; manganese and iron oxide staining rims			
23-Jul	AS/EO	9800	8925	andesite	pale grey, medium grained, slightly crystalline with red opaque hematite stringers; siliceous and weakly magnetic; manganese and iron oxide staining			
23-Jul	AS/EO	9800	8890	andesite	5 by 10m outcrop: medium grey, fine grained, magnetic with weak carbonate alteration, locally siliceous			
23-Jul	AS/EO	9795	8775	andesite	dark grey, aphanitic and locally siliceous; Mn and Fe oxide staining			
23-Jul	AS/EO	9805	8775	BFP	3 by 10m outcrop trending at 020: approx 40% subhedral plag crystals with fine grained dark grey matrix; occasional hornblende needles (<5%); plag crystal are hematite stained; a strong foliation at 010/90 is developed	AS-102	17	<.3
23-Jul	AS/EO	9810	8775	andesite	dark reddish grey, silicified and hornfelsed; very strong hematite and limonite staining			
26-Jul	EO/AS	9900	9600	BFP dyke/Andesite	BFP dyke in contact w/ andesite. BFP has a medium-dk. grey matrix w/ euhedral bot. (5%), 40% plag xals. 2 m to N, andesite is f.gr., dk. greyish-grm and chloritized, w/ 5-10% plag xals.			
26-Jul	EO/AS	9900	9590	Andesite	Dk. grey, f.gr. w/ hmt tr py in blebs, chl'zed			
26-Jul	EO/AS	9900	9570	Andesite	Dk. grey, m.gr. w/ hmt, tr py, f. dis'ted, chl'zed. Mod oxid'n on surface			
26-Jul	EO/AS	9900	9510	Andesite	F.gr., dark andesite			
26-Jul	EO/AS	9900	9485	Andesite	medium. to c. gr., small plag and qtz xals, chl and mag alt'n. Small ATV trail is crossed at 9900W, 9450S			
26-Jul	EO/AS	9900	9322	Andesite	F. to medium. gr. andesite w/ tr py, hmt "wisps". Dk. grey to gm w/ maroon oxid'n, rare plag xals.			
26-Jul	EO/AS	9900	9270	Andesite	F. to medium. gr. andesite. Dk. grey.			
26-Jul	EO/AS	9900	9200	Andesite	fine grained dk. grey; small plag xals. Frct: 311/sv			
26-Jul	EO/AS	9900	9140	Andesite	fine grained dk. gm to grey; small plag xals. Chl and mag alt'n			
26-Jul	EO/AS	9890-9910	9115-9060	Andesite	F.gr., dk gm to grey, stronger chl alt'n, less mag alt'n, locally siliceous, plag xals.			
26-Jul	EO/AS	9900	9050-9025	Andesite	F.gr. chl/mag alt'n, plag xals			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
26-Jul	EO/AS	9900	8985	Micro-diorite	Micro xals of hbd lathes (5-10%), 5% qtz abd 50% + plag. Rel. unaltered, minor oxid'n.			
26-Jul	EO/AS	9900	8825	Andesite	F.gr., dk grey w/ plag xals.			
26-Jul	EO/AS	9900	8750	Andesite	F.gr., dk grey w/ plag xals.			
26-Jul	EO/AS	9900	8600	Andesite	F.gr., gm w/ plag xals, pervasive weak chlz'n, hornfelsed (?), magnetic.			
26-Jul	EO/AS	9900	8515	Andesite	Aphanitic, dk. grey w/ mag alt'n. Minor cal vns and vugs.			
26-Jul	EO/AS	9800	8570	BFP dyke	lt. to medium. grey matrix, eu to subhedral plag xals (40%), 5% fresh biot			
26-Jul	EO/AS	9800	8565-8550	Andesite	medium grey, fine grained			
26-Jul	EO/AS	9800	8520	Andesite	medium grey, fine grained			
26-Jul	EO/AS	9800	8600	Andesite	medium to dk. grey, fine grained			
26-Jul	EO/AS	9800	8620	Andesite	medium grey, fine grained			
26-Jul	EO/AS	9800	8635	Andesite	medium grey, fine grained			
26-Jul	EO/AS	9800	8675	Andesite	medium grey, fine grained			
26-Jul	EO/AS	9800	8690	BFP dyke	Small BFP dyke; 30% sub to euhedral plag porphs, rare biot; Dk to medium grey matrix, hard.			
26-Jul	EO/AS	9800	8695	Andesite	F.gr., dk. grey			
26-Jul	EO/AS	9800-9807	8735-8775	BFP	10% biot books, 30-35% sub to euhedral plag, medium grey matrix. Plag.porphs are fresh, thus rel. unaltered.			
26-Jul	EO/AS	9800	8750	BFP/Andesite	BFP W. of line, andesite to E			
26-Jul	EO/AS	9808	8775	Andesite	Andesite W of 9808 W, andesite contains f. dist'd py. Refer to AS notes for remainder of line.	AS-115	5	<3
27-Jul	GW	9600	9300-9430	Andesite	Steep continous bdrk ridge, with an approx. strike of 110 deg. cut-off to the east at 9625W and to the north at 9300S. And. is f.g., dk. grey-green (chl), it appears to be both amygdoloidal (carb) and porphritic (fspar), w/ porph. content b/w 5 & 40%			
27-Jul	GW	9600	9070-9100	Andesite	Talus slope of f.g. to m.g. And., rel. steep, v. shallow overburden to outcrop. Similar to above, And. is slightly coarser grained, tr. Py, hardened and silicified w/ lt.purple hue to matrix.			
27-Jul	GW	9600	8760-8980	Andesite	Steep E. sloping ridge w/ And. boulders and outcrop. Grades b/w porph. and non-porph., tr. Py along micro-fract's. At 8800S, well developed fspar porphs, 15% of matrix, chl. 5%. At 8780S large vertical bdrk steps trending 90 deg.			
28-Jul	AS/DK	9300	9790	andesite	fine grained, dark green, chloritized; no visible sulfides; fairly massive texture			
28-Jul	AS/DK	9310	9805	andesite	fine grained, dark green, chloritized; fairly massive texture; cubic pyrite crystals; minor quartz veining (<5mm)			
28-Jul	AS/DK	9300	9815	andesite	pale green, aphanitic, weakly silicified with flecks of pyrite and metallic hematite			
28-Jul	AS/DK	9300	9845	andesite	aphanitic to fine grained, medium greenish grey, magnetic, chloritized with trace pyrite			
28-Jul	AS/DK	9300	9965	andesite	fine to medium grained, medium grey, weakly magnetic, chloritized and silicified with trace pyrite			
28-Jul	AS/DK	9300	10050	andesite	fine grained greenish grey, chloritized with occasional pyrite speacks; visible plag crystal faces; weakly magnetic			
28-Jul	AS/DK	9290	10200	microporphyritic andesite	medium grey with approximately 30% white subhedral <3mm feldspar grains; occasional specks of metallic hematite and flecks of pyrite; weakly silicified	AS-97	61	20
28-Jul	AS/DK	9290	10250	diorite	coarse grained, dark grey with large plag crystal (interlocking); pyrite flecks with hematite specks; magnetic			
28-Jul	AS/DK	9320	10250	diorite	coarse grained, dark greenish grey with large plag crystal (interlocking); rare sulfides; strongly magnetic			
28-Jul	AS/DK	9300	10293	microporphyritic andesite	dark grey fine grained matrix with approximately 20% white plag porphs; magnetic with trace pyrite and weak iron oxide alteration			
28-Jul	AS/DK	9285	10325	diorite	coarse grained, dark greenish grey with large plag crystal (interlocking); rare sulfides; strongly magnetic			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
28-Jul	AS/DK	9300	10355-75	diorite	coarse grained, dark greenish grey with large plag crystal (interlocking); rare sulfides; strongly magnetic			
28-Jul	AS/DK	9295	10410	diorite	"classic" diorite with approx 50-60% plag and 40% mafics; relatively unaltered; no visible sulfides			
28-Jul	AS/DK	9300	10425	diorite	coarse grained, dark greenish grey with large plag crystal (interlocking); rare sulfides; strongly magnetic			
28-Jul	AS/DK	9300	10450	diorite	coarse grained, dark greenish grey with large plag crystal (interlocking); rare sulfides; strongly magnetic			
31-Jul	AS/CD	10200	9370	diorite	medium grained, medium grey; 10-20% mafics, 60% plag, 10-20% quartz; relatively unaltered with metallic hematite in blebs			
31-Jul	AS/CD	10175	9290	andesite	medium grained, medium grey with visible plag crystal faces, magnetic, minor hematite, weak chlorite alteration			
31-Jul	AS/CD	10200	9245	andesite	fine to medium grained with occasional plag xtal faces, magnetic, weak chlorite alteration; weakly hornfelsed and silicified			
31-Jul	AS/CD	10200	9225	andesite	fine grained, medium grey, magnetic; silicified with Mn and Fe oxide staining; no sulfides			
31-Jul	AS/CD	10200	9170	andesite	fine grained, medium grey with occasional plag xtal faces; magnetic; iron and manganese oxide staining on fracture surfaces; fractures at 294/72			
31-Jul	AS/CD	10200	9140	andesite	fine grained, medium grey with occasional plag xtal faces; magnetic; iron and manganese oxide staining on fracture surfaces			
31-Jul	AS/CD	10200	9070	andesite	fine grained, medium grey, weakly magnetic			
31-Jul	AS/CD	10200	9025	andesite	fine grained, medium grey, weakly magnetic with trace pyrite			
31-Jul	AS/CD	10200	8875	andesite	very fine grained, medium greenish grey with thin <3mm white carbonate veins; silicified and chloritized; no visible sulfides; Aspect is 240, plunging 35 degrees			
31-Jul	AS/CD	10200	8540	andesite	fine grained to aphanitic, greenish grey, with trace pyrite; silicified and weakly chloritized; magnetic; Note: line 10300W is approx 75m shorter than 10200W			
31-Jul	AS/CD	10300	8525	andesite	very fine grained, greenish grey, silicified and weakly chloritized with occasional lapilli clasts; iron oxide alteration at the surface			
31-Jul	AS/CD	10300	8790	andesite	fine grained, greenish grey, silicified, weakly chloritized; iron oxide alteration; no visible sulfides			
31-Jul	AS/CD	10300	8810	andesite	fine grained, greenish grey, silicified, weakly chloritized; iron oxide alteration; trace pyrite			
31-Jul	AS/CD	10400	9050	andesite	fine grained, greenish grey; silicified and chloritized; no sulfides			
31-Jul	AS/CD	10300	9050	diorite	fine grained; approx 30% mafics, 60% plag and <10% quartz; relatively unaltered; no visible sulfides; magnetic			
31-Jul	AS/CD	10300	9135	andesite	medium greenish grey, chloritized and silicified; no visible sulfides; Note: ATV road crosses 10300W line at 9200S			
31-Jul	AS/CD	10300	9210	andesite	medium grained, silicified and magnetic with no visible sulfides			
31-Jul	AS/CD	10300	9250	diorite	coarse grained "classic diorite"; approx 20-30% mafics (biotite, hornblende), 50-60% plag and 10% quartz; epidote occurs along fracture surfaces; hematite staining occurs at the surface, trace pyrite	hand sample AS-98		
31-Jul	AS/CD	10300	9450	diorite	coarse grained "classic diorite"; approx 20-30% mafics (biotite, hornblende), 50-60% plag and 10% quartz; epidote occurs along fracture surfaces; hematite staining occurs at the surface, trace pyrite			
2-Aug	AS/JW	9200	9740	andesite	dark grey, fine grained, chloritized, minimal veining, no visible sulfides			
2-Aug	AS/JW	9200	9760	andesite	lapilli tuff with 1mm-2cm clasts; dark greenish grey; chloritized with no visible sulfides			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
2-Aug	AS/JW	9200	9800	andesite	fine to medium grained, medium grey; silicified with no sulfides			
2-Aug	AS/JW	9200	10030	andesite	outcrop is 20 by 10m: dark grey, with a greenish tinge; thin (<2mm) calcite veinlets (discontinuous); weakly chloritized; Mn and Fe oxide alteration at surface			
2-Aug	AS/JW	9200	10400	diorite	very coarse grained with large (up to 1.5cm) plag xtals (approx 70%), 20% mafics; weak chlorite alteration, no sulfides, small specks of metallic hematite; strongly magnetic			
2-Aug	AS/JW	9170	10500	diorite	very coarse grained with large (up to 1.5cm) plag xtals (approx 70%), 20% mafics; weak chlorite alteration, no sulfides, small specks of metallic hematite; strongly magnetic			
2-Aug	AS/JW	9120	10500	diorite	very coarse grained with large (up to 1.5cm) plag xtals (approx 70%), 20% mafics; weak chlorite alteration, no sulfides, small specks of metallic hematite; strongly magnetic			
2-Aug	AS/JW	9110	10450	diorite	medium to coarse grained, very strong Mn oxide staining; approx 70 -80 % plag xtals, 10% mafics; weak chlorite alteration and strongly magnetic			
2-Aug	AS/JW	9100	10400	diorite	20 by 30m outcrop: medium to coarse grained, very strong Mn oxide staining; approx 70 -80 % plag xtals, 10% mafics; weak chlorite alteration and strongly magnetic; no visible sulfides			
2-Aug	AS/JW	9100	10375	diorite	medium to coarse grained, very strong Mn oxide staining; approx 70 -80 % plag xtals, 20% mafics; weak chlorite alteration and strongly magnetic; no visible sulfides			
2-Aug	AS/JW	9100	10325	andesite	very fine grained, dark grey; weakly microfractured with calcite veining throughout (<2mm); iron oxide alteration occurs along fracture surfaces			
2-Aug	AS/JW	9100	10250	andesite	very fine grained, dark grey; weakly microfractured with calcite veining throughout (<2mm); iron oxide alteration occurs along fracture surfaces			
2-Aug	AS/JW	9100	10230	andesite	very fine grained, dark grey; weakly microfractured with calcite veining throughout (<2mm); Fe and Mn oxide alteration occurs along fracture surfaces; unit is pervasively chloritized			
2-Aug	AS/JW	9100	10210	andesite	fine grained, dark greenish grey with chlorite alteration; small hematite stringers throughout; limonite and Mn oxide staining			
2-Aug	AS/JW	9100	10110	andesite	fine grained, dark grey with chlorite and weak silica alteration; calcite and hematite stringers (<2mm) throughout			
2-Aug	AS/JW	9100	10050	andesite	tuffaceous with < 1cm clasts; chloritized, dark greenish grey with hematite weathering; no sulfides			
2-Aug	AS/JW	9100	9900	andesite	fine grained, dark greenish grey, chloritized and weakly silicified; small (<2mm) hematite stringers throughout; limonite and Mn oxide staining at surface			
2-Aug	AS/JW	9100	9800	andesite	fine grained, dark greenish grey, chloritized and weakly silicified; small (<2mm) hematite stringers throughout; limonite and Mn oxide staining at surface			
4-Aug	AS/KM	10600	8500	andesite	fine grained, dark grey with occasional <2mm feldspar xtals, silicified, no sulfides; iron oxide weathering			
4-Aug	AS/KM	10600	8550	andesite	dark grey, aphanitic, silicified with weak limonite staining at surface and along fractures; mineralization consists of hematite and pyrite specks	KM-01	151	<1
4-Aug	AS/KM	10600	8675	quartz diorite	fine grained with 60% plag, 20% quartz and 20% mafics; relatively unaltered with weak iron oxide alteration at the surface; no sulfides, strongly magnetic			
4-Aug	AS/KM	10600	8850	diorite	classic coarse grained with 65% plag, 25% mafics, 10% quartz; very finely disseminated pyrite specks, hematite staining occurs on feldspar grains; strongly magnetic	KM-02	5	<1

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
4-Aug	AS/KM	10600	8950	diorite	classic coarse grained with 65% plag, 25% mafics, 10% quartz; very finely disseminated pyrite specks, hematite staining occurs on feldspar grains; strongly magnetic			
4-Aug	AS/KM	10600	9175	diorite	classic coarse grained with 65% plag, 25% mafics, 10% quartz; very finely disseminated pyrite specks, locally weathered to clay; weakly magnetic			
4-Aug	AS/KM	10600	9200	andesite	fine grained to aphanitic, medium greenish grey, weak chlorite alteration, weakly silicified; pervasive iron oxide staining			
4-Aug	AS/KM	10600	9260	andesite	greenish grey, aphanitic, strongly silicified, trace pyrite along fracture surfaces; 1-8mm quartz veins (irregular); alteration rims of hematite and limonite at surface			
4-Aug	AS/KM	10570	9350	andesite	large 30 by 20m outcrop: fine to medium grained greenish grey, silicified, weakly chloritized; minor calcite veining; fractures at 086/49 and 200/72			
4-Aug	AS/KM	10580	9400	andesite	large 20 by 20m knob of fine to medium grained greenish grey, silicified, weakly chloritized; minor calcite veining			
4-Aug	AS/KM	10600	9425	andesite	fine grained, greenish grey, chloritized, weakly silicified; intense limonite, jarosite, and hematite alteration			
4-Aug	AS/KM	10590	9500	andesite	fine grained, greenish grey; chloritized, weakly silicified; iron oxide alteration near surface and along fracture surfaces; fractures at 360/72			
4-Aug	AS/KM	10600	9675	andesite	fine to medium grained, pale grey with visible plag xtals, non magnetic; minor hematite veining, weakly microfractured; trace pyrite			
19-Aug	AS/DK	9900	10250	andesite	dark blueish grey, very fine grained, hornfelsed, weak Fe ox staining, no visible sulfides			
19-Aug	AS/DK	9900	10200	andesite	dark blueish grey, very fine grained, hornfelsed, weak Fe ox staining, no visible sulfides			
19-Aug	AS/DK	9900	10170	alt'd andesite	fine grained, pale grey with orange Fe ox weathering, strong clay alteration, trace pyrite occurring along fractures and within small veinlets, strongly microfractures			
19-Aug	AS/DK	9900	10150	alt'd andesite	fine grained, pale grey with orange Fe ox weathering, strong clay alteration, trace pyrite occurring along fractures and within small veinlets, strongly microfractures			
19-Aug	AS/DK	9900	10045	alt'd andesite	fine grained, pale grey with orange Fe ox weathering, strong clay alteration, trace pyrite occurring along fractures and within small veinlets, strongly microfractures			
19-Aug	AS/DK	9800	10100	andesite	medium grey, aphanitic to fine grained, occasional plag xtal faces; strongly hornfelsed and silicified; minor calcite veining (<2mm); specks of pyrite disseminated throughout			
19-Aug	AS/DK	9800	10250	andesite	medium grained, dark greenish grey with Mn and Fe oxide staining; pyrite occurs as thin irregular veinlets and as disseminated specks; magnetic and chloritized throughout			
19-Aug	AS/DK	9800	10275	diorite	medium to coarse grained with 60-70% plag, <10% quartz, 10-15% mafics; chloritized and weakly silicified with pyrite veinlets; strongly magnetic			
19-Aug	AS/DK	9750	10265	andesite	dark blueish grey, very fine grained, hornfelsed and silicified with no visible sulfides			
19-Aug	AS/DK	9690	10225	andesite	tuff with 1-4cm clasts (angular to subrounded) of dark grey andesite, quartz rich clasts and calcite; chlorite alteration is pervasive; galena, epidote and pyrite occur as specks and splashes; unit is magnetic	AS-227	141	3
19-Aug	AS/DK	9700	10150	andesite	dark blueish grey, very fine grained, hornfelsed and silicified with no visible sulfides			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
19-Aug	AS/DK	9700	10125	andesite	dark blueish grey volcanic breccia with pervasive chlorite alteration; clasts are angular and up to 3cm in diameter, specks of pyrite throughout; locally silicified; rare splashes of cpy (?)	AS-228	524	15
19-Aug	AS/DK	9970	10000	andesite	fine grained dark grey, hornfelsed with minor plag xtal faces; no visible sulfides			
25-Aug	AS/JW	9300	9365	andesite	brownish grey, aphanitic; strongly silicified with weak iron oxide alteration; specks of hematite throughout; no visible sulfides			
25-Aug	AS/JW	9335	9530	andesite	medium to dark grey, aphanitic, very silicified and hornfelsed with local chloritized sections; rare 1-5mm white clay altered amygdules; pyrite occurs as small specks throughout			
25-Aug	AS/JW	9200	9600	andesite	dark greenish grey, aphanitic; chloritized, weakly silicified with Mn and Fe oxide staining; minor calcite veining (weakly microfractured); pyrite occurs as blebs and specks			
25-Aug	AS/JW	9210	9600	andesite	tuffaceous with .1-2cm clasts (angular to subangular, chloritized and silicified); trace pyrite			
25-Aug	AS/JW	9200	9260	BFP	grey, intensely silicified with 2-3% <2mm black biotite hexagons, 40% anhedral <3mm plag xtals; matrix is medium grey and strongly silicified; no visible sulfides			
25-Aug	AS/JW	9100	9600	andesite	dark greenish grey, aphanitic to fine grained; intensely silicified with iron oxide alteration at the surface forming rims; no visible sulfides			
26-Aug	AS/SS	9000	9925	andesite	dark greenish grey, fine grained to aphanitic; silicified, hornfelsed; 1-5mm quartz veins; no visible sulfides			
26-Aug	AS/SS	9005	10040	microporphyritic andesite	fine grained, amygdaloidal, greenish grey, 10-20% white 1-5mm feldspar porphs; magnetic with chlorite alteration, trace pyrite, local hematite			
26-Aug	AS/SS	9000	10050	microporphyritic andesite	fine grained, amygdaloidal, greenish grey, 10-20% white 1-5mm feldspar porphs; magnetic with chlorite alteration, trace pyrite, local hematite			
26-Aug	AS/SS	9000	10075	microporphyritic andesite	purplish grey Hazelton volcanic: with 10-20% white plag porphs and amygdules throughout; non magnetic	hand sample AS-149		
26-Aug	AS/SS	9000	10125	microporphyritic andesite	purplish grey Hazelton volcanic: with 10-20% white plag porphs and amygdules throughout; non magnetic			
26-Aug	AS/SS	9000	10175	microporphyritic andesite	andesite with 20% porphs and amygdules of feldspar and quartz; matrix is dark green and chloritized			
26-Aug	AS/SS	9000	10250	microporphyritic andesite	andesite with 20% porphs and amygdules of feldspar and quartz; matrix is dark green and chloritized; minor calcite veining <2mm; trace pyrite			
26-Aug	AS/SS	9000	10400	andesite	fine grained, dark green; magnetite is present as small specks; massive texture; no sulfides visible			
26-Aug	AS/SS	9000	10450	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9000	10500	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9000	10545	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9050	10575	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9100	10575	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9150	10575	diorite	dark green, coarse grained; 70% large plag xtals (up to 2cm in length); hematite and chlorite alteration; weakly magnetic			
26-Aug	AS/SS	9200	10680	diorite	classic diorite: medium grained with 60-70% plag, 20-30% mafics; strongly magnetic			
26-Aug	AS/SS	9200	10750	andesite	fine grained, pale to medium greenish grey, chloritized; non magnetic; no sulfides			

date	mappers	Westing	Southing	rock type	comments	sample	Cu ppm	Au ppb
26-Aug	AS/SS	9225	10775	diorite	classic diorite: medium grained with 60-70% plag, 20-30% mafics; strongly magnetic			
26-Aug	AS/SS	9330	10800	diorite	classic diorite: medium grained with 60-70% plag, 20-30% mafics; strongly magnetic; trace pyrite			
26-Aug	AS/SS	9475	10810	diorite	classic diorite: medium grained with 60-70% plag, 20-30% mafics; strongly magnetic			
26-Aug	AS/SS	9540	10825	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite; fractures at 044/86			
26-Aug	AS/SS	9535	10870	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite			
26-Aug	AS/SS	9680	10920	andesite	dark green, chloritized; weakly sil, pervasively chloritized; no sulfides			
26-Aug	AS/SS	9800	10930	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite			
26-Aug	AS/SS	9960	10985	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite			
26-Aug	AS/SS	10080	11010	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite			
26-Aug	AS/SS	10160	11075	andesite	fine grained, dark greenish grey; weakly silicified and chloritized; local iron oxide staining; no pyrite			