Assessment Report

on

2000
Percussion and Diamond Drilling

at

Mount Polley Mine
Cariboo Mining Division

N.T.S. 93A/12E
Latitude 52° 33' N
Longitude 121° 38' W

Owner:
Mount Polley Mining Corporation
Box 12
Likely, B.C.
V0L 1N0

Volume 3 – Drill Logs and Assay Certificates
Percussion – IR00-*

Vivian F. Park, P. Geo.
Mine Geologist

March 15, 2001

DRILL LOGS

Mount Polley Mining Corporation
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Mount Polley Mine

Drillhole Report

IR00-3

Zone	C Pit - East	**Easting**	2128.2	**Drilled By**	IR Rig 4
Length (m)	36.6	**Northing**	2586.1	**Logged By**	V. Park
		Elevation	1135.0	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	36.6	BX	Breccia; mottled dark pink, grey-pink and grey; monzonitic with distinct PPp near top of hole; excellent textures are decreasingly well preserved; wet to 21.34 m; moderately and increasingly magnetitic; trace pyrite; variable k-spar, sericite and silica alteration as described below. 0.0 - 13.7 m: >80% bright/deep pink; intense pervasive potassic alteration; plagioclase crystals often clay-altered and remain white; minor augitic monzonite; excellent textures; black magnetite as disseminated cubes <1/2mm and clots <1mm; ubiquitous surface sericitization; minor organics to 6.1 m; incompetent near surface - can be marked or crushed with pressure from fingernail; trace disseminated pyrite. 13.7 - 29.0 m: abundant clay and wet to 21.3 m = possible fault?; decreased grain size and poor *textures*; *more grey with pinkish hues*; *homogeneous*-looking due to strong to intense sericitization that creates shimmery, recrystallized rock; faintly silicified-looking (phyllic?); increased magnetite, more often as clots and blebs; increased colour index - several volcanic-like chips; rare sub-mm quartz veinlets; rare disseminated pyrite; grungy-looking. 29.0 - 36.6 m: as 0.0 - 13.7 m but with increased sericitization and a slight homogeneity, as 13.7 - 29.0 m; trace ultra fine disseminated chalcopyrite in weakly silicified rock - not common; <15% intensely potassic rock as alteration envelopes around fractures. Note: intense sericitization I most of hole suggests a proximity to a structure; apparently this hole was lost in a fault.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR3-1	0.084	0.045	0.08	5.14
6.1	13.7	IR3-2	0.215	0.038	0.21	4.94
13.7	21.3	IR3-3	0.159	0.010	0.11	5.37
21.3	29.0	IR3-4	0.060	0.009	0.04	4.72
29.0	36.6	IR3-5	0.151	0.011	0.24	5.38

Alteration

K	A	M	cp	py
4		3		tr
4		3		tr
3		3		tr
2		3		tr
3		4	tr	tr

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Drillhole Report

IR00-4

Zone		**Easting**	2494.3	**Drilled By**	IR Rig 4
Length (m)	82.3	**Northing**	3011.5	**Logged By**	V. Park
		Elevation	1146.5	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	22.0	FAULT	Fault? or intense alteration zone; original lithology indeterminate, but resembles fine-grained intrusive; ugly mottled green, cream, yellow, grey; incompetent - easily destroyed with pressure from fingernail; similar to IR00-20; possible breccia with minor volcanic fragments; textures improve. Intense pervasive limonitic staining to 3.0 m; moderate limonitic staining to 14.0 m; intensely sericitized all chips have shiny, grainy to felted crystallized/decomposed texture; other fragments bleached/altered to off-white clay; <20% K-altered fragments to 6.1 m, then weak selective potassic alteration below; intensely altered and incompetent - ick. Moderately magnetitic. Trace disseminated, oxidized pyrite; no visible copper minerals. Rather sharply into:
22.0	44.0	BX	Monzonitic breccia; deep pink/salmon-pink; *dominantly equigranular with rare phyric feldspar*; good textures; minor biotite. Intense pervasive potassic alteration; very strong sericitization, especially near contacts - creates shiny, grainy to shimmery pseudomorphs; minor localized selective clay alteration of modal feldspar; minor chlorite. Moderately magnetitic, as sub-cm clots, in fractures and as disseminations - increasing to end of interval. Trace pyrite > chalcopyrite as disseminated, fresh to tarnished crystals and rare stringers associated with magnetite.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR4-1	0.084	0.052	0.10	4.47	3		2		tr
6.1	13.7	IR4-2	0.039	0.021	0.05	4.47	2		2		tr
13.7	21.3	IR4-3	0.154	0.077	0.21	5.36	1		2		
21.3	29.0	IR4-4	0.098	0.051	0.13	4.21	4		1		tr
29.0	36.6	IR4-5	0.132	0.053	0.12	2.59	5		1		tr
36.6	44.2	IR4-6	0.145	0.027	0.12	3.18	5		2	tr	tr
44.2	51.8	IR4-7	0.118	0.009	0.10	3.76	2		3		tr
51.8	59.4	IR4-8	0.120	0.004	0.08	3.81	2		3	tr	1
59.4	67.1	IR4-9	0.294	0.012	0.25	3.47	2		3	tr	tr
67.1	74.7	IR4-10	0.095	0.021	0.09	4.50	3		3		tr
74.7	82.3	IR4-11	0.113	0.022	0.13	4.84	3		3		tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
44.0	82.3	BX	Breccia, as IR00-20 27.4 - 74.7 m; wet from 59.4 m; mostly grey/pink-grey with <10% greyish pink/purple; monzonite to darker grey diorite; equigranular with several phyric plagioclase; several dark grey/volcanic-like chips; textures are discernible but are never very well preserved, especially near upper contact; increasingly melanic to end of hole. Sericitization with minor chlorite dominates yet decreases; ubiquitous K-alteration, selective and along fractures; some quartz veinlets <1mm. Strongly magnetitic - clots and blebs. Trace but ubiquitous pyrite >chalcopyrite - disseminated crystals and sub-mm blebs; sulfides increase to end of hole. 44.0 - 52.0 m: possible augite porphyry dyke; <10% dark green to pinkish monzonitic intrusive with black to green augite crystals - so, 51.0 - 53.0 m = AP? From 59.4 m: faintly silicified-looking; K-alteration on fractures envelopes is much more intense; increasingly sulfides to 67.1 m. From 74.7 m: decreased quantity of competent material.														

Drillhole Report

IR00-5

Zone	207	**Easting**	2322.2	**Drilled By**	IR Rig 4
Length (m)	89.9	**Northing**	2851.5	**Logged By**	V. Park
		Elevation	1138.4	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	51.0	BX	Intrusive breccia; mostly monzonite with plagioclase porphyry (PPp and PPg); <1% homogeneous, very fine grained, magnetitic volcanic fragments increasing to >10% by end of interval; mottled grey and pink; moderately to strongly magnetitic; divisions into smaller units as follows: 0.0 - 13.7 m: mottled grey, yellowish, cream and grey; monzonitic with equigranular and plagioclase phyric; excellent textures easily viewed without magnification; rare augite porphyry monzonite; a few feldsparic volcanic fragments - siliceous-looking with subtle pyroxene phenocrysts (augite?) <1-2 mm - magnetitic; wet. 50-25% fragments with intense pervasive potassic alteration - deep salmon-pink is in stark contrast to colouration of remaining rock; k-sparic chips also show mm-scale albitic channels, shimmery yellowish surface sericite, sub-mm disseminated magnetite and spotty manganese oxide; remaining rock is creamy with faint pink patches, significantly more magnetite as clusters of ultra fine crystals, shows stronger sericitization and moderate argillic alteration and weak selective potassic alteration and rare sub-mm epidote blebs; macroscopically, this interval looks like a fault based on bleaching and clayey appearance; minor quartz. Moderately to strongly magnetitic - more magnetite in non-potassic rock. Trace malachite on fractures to 6.1 m; no pyrite or chalcopyrite. Transitional into: 13.7 - 51.0 m: monzonite and monzodiorite; grey with pink mottling; black volcanic composition

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR5-1	0.208	0.064	0.27	4.40	3		3	mal	
6.1	13.7	IR5-2	0.104	0.035	0.16	5.14	2		3		
13.7	21.3	IR5-3	0.111	0.053	0.21	4.52	3		3		
21.3	29.0	IR5-4	0.102	0.029	0.19	4.92	3		4		
29.0	36.6	IR5-5	0.118	0.008	0.24	4.47	2		4	tr	
36.6	44.2	IR5-6	0.134	0.014	0.25	4.42	2		4		
44.2	51.8	IR5-7	0.070	0.015	0.16	4.37	1		3		
51.8	59.4	IR5-8	0.041	0.006	0.09	4.44	1		4	1	
59.4	67.1	IR5-9	0.084	0.015	0.16	4.81	2		4	tr	
67.1	74.7	IR5-10	0.113	0.023	0.21	4.08	3		4		
74.7	82.3	IR5-11	0.134	0.025	0.24	4.23	3		4		
82.3	89.9	IR5-12	0.118	0.029	0.45	4.39	3		4		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			increases to 10% by end of interval; finer grained than above; good textures are less discernible; equigranular > phyric phases; decreasingly competent and possibly terminates in a fault; significantly increased volcanics from 44.2 m; wet to 29.0 m. <20% rocks with intense pervasive K-alteration (likely as envelopes around fractures) and most remaining fragments are partially and selectively potassic; faintly silicified with rare veinlets at top and bottom of interval; increased sericite from 21.3 m; minor chloritic=tic fractures and spotty epidote from 29.0 m; very clay-rich, crumbly and incompetent from 44.2 m. Moderately to strongly magnetitic - disseminated crystals <1/2mm, but more often as concentrations of ultra fine crystals; magnetite in similar occurrence to ultra fine biotite.												
51.0	63.0	PPg	Creamy, grey plagioclase porphyry monzodiorite; contacts are not sharply defined, so I can't be certain that this is a dyke; contains <5% volcanic chips that might be contamination from above; wet from 51.8 m; faint greenish hue; white plagioclase phenocrysts <1-2mm; excellent textures. Sericitized; minor patchy clay alteration; weak chlorite and rarer epidote in fractures; rare, weak and localized selective potassic alteration. Abundant fine magnetite - very high concentrations (>50%) locally. Not mineralized.												
63.0	82.3	BX	Intrusive breccia; mottled salmon-pink and grey, as 13.7 - 51.0 m; >60% rock with intense pervasive K-alteration; <2% volcanics; textures are decreasingly well preserved to end of interval; interval likely terminates in a fault. K-alteration dominates; sericite steadily increases; minor epidote and chlorite; rare quartz chips. Magnetitic throughout - as disseminated crystals and mm-scale clots. Trace chalcopyrite, tarnished in chip tray, as fine crystals intergrown with magnetite and comprising <50% of one chip. 74.7 - 82.3 m: poor recovery of competent fragments; sericitized; homogeneous and boring-looking; possible fault.												

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
82.3	89.9	BX	Breccia; intrusive-volcanic; mottled pink, black and grey; as 63.0 - 82.3 m, but with 25% fine grained, black, magnetitic volcanic fragments - as 44.2 - 51.0 m; intense potassic alteration with lesser epidote and chlorite;; magnetitic; no visible chalcopyrite or pyrite; different-looking than unit directly above.												

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Drillhole Report

IR00-6

Zone		**Easting**	2155.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2683.1	**Logged By**	V. Park
		Elevation	1114.4	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	OB	Overburden, after breccia; brownish-orange with deep pink underhue; <5% volcanic fragments; monzonite with some clay-altered plagioclase crystals <1mm; abundant altered biotite; poorly preserved but discernible igneous textures; all surfaces coated with limonitic sericite due to near-surface weathering; minor organics; lower contact might be deeper than assigned, based on appearance of unwashed sample - not obvious in washed sample. Potassic alteration is strong but obscured by siltskins and some limonitic staining; very selective argillic alteration; abundant sericite. Weakly magnetitic - disseminated magnetite <1/2mm. No visible sulfides or copper oxides.
6.1	36.0	BX	Intrusive breccia; mottled salmon-pink and grey to increasingly and almost completely pink; monzonitic with diorite near upper 'contact'; increasingly plagioclase phyric with white phenocrysts <1-2mm, very rarely <3mm - especially from 21.3 m; black *speckling due to sub-mm biotite and magnetite, often* coated with manganese oxide; minor volcanics (<2%); wet from 21.3 m. Very strong and increasingly intense potassic alteration - pervasive except for mafics and some plagioclase; also strong sericite and/or clay to create *opaque, micro sucrosic texture; rare clear quartz* veinlets fragments (with malachite or chrysocolla) after 21.3 m. Weakly but increasingly magnetitic. Trace copper oxides in secondary quartz after 21.3 m.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR6-1	0.021	0.012	0.05	3.93	4		1		
6.1	13.7	IR6-2	0.100	0.041	0.08	4.61	3		1		
13.7	21.3	IR6-3	0.179	0.089	0.18	4.73	4		2		
21.3	29.0	IR6-4	0.121	0.060	0.13	4.10	4		2	mal	
29.0	36.6	IR6-5	0.043	0.021	0.09	3.94	4		3		
36.6	44.2	IR6-6	0.060	0.017	0.09	3.71	4		3		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
36.0	38.0	DYKE	Augite porphyry dyke; subtle; cream-grey, semi-translucent feldspar-rich groundmass with black augite phenocrysts <1mm; minor magnetite; not mineralized.												
38.0	44.2	BX	Intrusive-volcanic breccia; deep salmon-pink plagioclase porphyry (PPp) with <10% black, very fine-grained volcanic and a few milky to clear quartz veinlet fragments; one volcanic fragment with clear quartz micro stockwork; much as 6.1 - 36.0 m; okay igneous textures. Intense pervasive potassic alteration in intrusive with plagioclase phenocrysts showing weak sericite and/or clay alteration; <10% of potassic fragments also with weak to moderate chloritization and minor very fine epidote; weak oxidation on some fractures. Moderately magnetitic, mostly due to ultra fine magnetite in volcanic; disseminated magnetite, often coated with manganese oxide, is also slightly more common than in rock above. No visible mineralization. Blah-looking rock.												

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Drillhole Report

IR00-7

Zone		Easting	2114.2	Drilled By	IR Rig 4
Length (m)	105.2	Northing	2628.5	Logged By	V. Park
		Elevation	1099.8	Comments	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	105.2	BX	Intrusive and intrusive-magnetite breccia; slight variations throughout - described below; blah-looking economically; no pyrite or chalcopyrite; weakly magnetitic; mostly plagioclase porphyry (PPp) and monzonite with diorite and <10% volcanic; moderate to strong pervasive potassic alteration; overall pink/salmon-pink/pink-orange/green-orange and cream; porphyritic textures dominate. 0.0 - 6.1 m: overburden/weathered bedrock; igneous textures blurred; all surfaces coated with limonitic, *sericitic siltskins*; <5% *diorite*; <5% *volcanics*; *intense* potassic alteration: weak limonitic staining; very weakly magnetitic; no chalcopyrite or pyrite. 6.1 - 25.9 m: mostly pink plagioclase porphyry, especially from 13.7 m; wet to end of hole; good igneous textures are slightly blurred by intense K-alteration, pervasive sericitization (that causes rock to be grainy and incompetent) and selective, strong clay alteration of plagioclase phenocrysts; spotty sub-mm manganese oxide; weak chloritization to 13.7 m; unit separated due to lack of volcanic fragments. 25.9 - 105.2 m: variably, but usually strongly K-altered monzonitic rock, often porphyritic (PPp>>PPg); potassic alteration increases to end of hole. 36.6 - 44.2 m: weakly limonite stained; cloudy quartz veinlet <3mm; 5-10% black and white, dioritic magnetite-plagioclase chips. 44.2 - 52.0 m: very strong sericitization; oxidized magnetite crystals - limonite pseudomorphs. 52.0 - 67.1 m: *occasional limonitic fractures; strong* potassic alteration with intense sericitization locally; 5-10% volcanics; patchy epidote and lesser chlorite in

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR7-1	0.057	0.029	0.03	4.47	3		2		
6.1	13.7	IR7-2	0.067	0.018	0.06	3.88	3		2		
13.7	21.3	IR7-3	0.071	0.018	0.13	4.28	3		2		
21.3	29.0	IR7-4	0.075	0.023	0.19	4.59	3		2		
29.0	36.6	IR7-5	0.054	0.022	0.07	4.15	3		2		
36.6	44.2	IR7-6	0.055	0.021	0.07	4.01	3		2		
44.2	51.8	IR7-7	0.056	0.022	0.15	4.00	3		2		
51.8	59.4	IR7-8	0.054	0.021	0.08	4.07	3		2		
59.4	67.1	IR7-9	0.050	0.023	0.09	4.25	3		2		
67.1	74.7	IR7-10	0.050	0.023	0.09	4.25	3		2		
74.7	82.3	IR7-11	0.057	0.019	0.07	3.92	3		2		
82.3	89.9	IR7-12	0.043	0.016	0.06	4.26	3		2		
89.9	97.5	IR7-13	0.051	0.015	0.10	3.78	4		2		
97.5	105.2	IR7-14	0.042	0.013	0.05	4.09	4		2		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			potassic rocks slowly increases to end of hole; occasional totally epidotic chips; rare augite porphyry fragments. 67.1 - 82.3 m: minor quartz veinlets <1/2cm - clear and milky - not mineralized; increased epidotization; limonite and manganese oxide on fractures persists. 82.3 - 105.2 m: add weird chips, like aphanitic greenish chert-like rock, one jagged quartz-hematite cluster; increased sericitization and increased potassic alteration. No chalcopyrite or pyrite in this hole; blech.													

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Drillhole Report

IR00-10

Zone	C2	**Easting**	2128.2	**Drilled By**	IR Rig 4
Length (m)	89.9	**Northing**	2694.4	**Logged By**	V. Park
		Elevation	1114.5	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	OB	Overburden; unwashed sample is unconsolidated material rather than good in situ rock; greenish-grey monzonitic intrusive with very minor K-alteration; good igneous textures; weakly feldspar-phyric; moderate to locally strong sericitization and minor argillic alteration; rare oxidized magnetite; ubiquitous fine disseminated magnetite; rare dark red limonite on fractures.
7.6	29.0	BX	Breccia; pink, weakly phyric monzonite with intense K-alteration; most original textures overprinted but some white, altered feldspar crystals remain and original textures are discernible; <5% uniform, grey, non-phyric fragments; weakly magnetitic with <3% disseminated crystals, occasionally oxidized; rare oxidized fractures. Trace disseminated pyrite; no visible Cu minerals.
29.0	51.8	BX	K-altered, brecciated monzonite as 25 - 90'; more phyric and some feldspar crystals remain unaltered; no visible Cu sulfides or oxides; <5% unaltered rocks; ubiquitous weak to moderate sericitization; <4% disseminated magnetite; rare limonitic fractures.
51.8	89.9	BX	*K-altered monzonite, as above but with <15%* unaltered monzonite and black very fine grained rock with sub-mm milky quartz veinlets; increasingly well-displayed and well-preserved feldspar-phyric textures; sericitization throughout; weakly magnetic - increasing magnetite from 270'; possibly not even brecciated except for alternate lithology (probably clasts); no visible Cu minerals.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR10-1	0.060	0.029	0.13	3.53	1		1		
6.1	13.7	IR10-2	0.186	0.074	0.22	3.66	4		1		
13.7	21.3	IR10-3	0.204	0.061	0.25	3.40	5		1		
21.3	29.0	IR10-4	0.203	0.056	0.18	3.60	5		1		
29.0	36.6	IR10-5	0.127	0.039	0.22	3.83	5		1		
36.6	44.2	IR10-6	0.112	0.044	0.16	3.20	5		1		
44.2	51.8	IR10-7	0.102	0.037	0.15	3.30	5		1		
51.8	59.4	IR10-8	0.082	0.034	0.13	3.51	5		1		
59.4	67.1	IR10-9	0.081	0.041	0.14	3.40	4		1		
67.1	74.7	IR10-10	0.094	0.049	0.12	3.18	4		1		
74.7	82.3	IR10-11	0.064	0.030	0.11	3.47	3		1		
82.3	89.9	IR10-12	0.066	0.029	0.19	3.23	3		2		

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Drillhole Report

IR00-11

Zone	C2	**Easting**	2174.9	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2670.3	**Logged By**	V. Park
		Elevation	1115.1	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	OB	Overburden; muddy wet sample with organics; mixed lithologies; siltskins
21.3	38.1	BX	Breccia; dominantly pink with <5% grey and/or yellow monzonite; very strong K-alteration; yellow due to localized sericitization; uniform appearance and fine-grained texture; non-phyric; weakly magnetic - magnetite increases to <3% at end of interval; no copper sulfides. 70 - 95': one chip with blue and green Cu oxides 120 - 145': slight increase in chip size and increased sericitization - possible fault?
38.1	44.2	BX	Monzonite; possibly brecciated; mottled with orange/pink, black and grey; K-alteration affects >50% rock; very weakly phyric; un-K-altered rocks are greyish monzonite; weakly magnetic with <1% disseminated magnetite; no visible sulfides or oxides.
7.6	21.3	BX	Breccia to monzonite; mottled grey and pink-grey monzonitic intrusive; <40% rocks with strong K-alteration; locally feldspar-phyric; <3% magnetite; no copper minerals; possibly wathered overburden; doesn't seem to brecciated, but might be.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR11-1	0.032	0.017	0.05	3.61
6.1	13.7	IR11-2	0.042	0.024	0.05	3.39
13.7	21.3	IR11-3	0.080	0.057	0.10	3.52
21.3	29.0	IR11-4	0.112	0.059	0.14	3.41
29.0	36.6	IR11-5	0.099	0.055	0.11	3.41
36.6	44.2	IR11-6	0.107	0.042	0.15	3.30
44.2	51.8	IR11-7	0.096	0.032	0.11	3.27
51.8	59.4	IR11-8	0.081	0.030	0.09	3.07
59.4	67.1	IR11-9	0.089	0.034	0.09	2.91
67.1	74.7	IR11-10	0.076	0.028	0.10	2.75
74.7	82.3	IR11-11	0.076	0.033	0.15	3.26
82.3	89.9	IR11-12	0.074	0.032	0.10	3.17
89.9	97.5	IR11-13	0.066	0.029	0.06	3.37
97.5	105.2	IR11-14	0.064	0.028	0.07	3.38

Alteration

K	A	M	cp	py

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Drillhole Report

IR00-12

Zone	C2	**Easting**	2141.8	**Drilled By**	IR Rig 4
Length (m)	82.3	**Northing**	2691.9	**Logged By**	V. Park
		Elevation	1115.0	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	OB	Dominantly overburden after breccia; larger fragments; broken surfaces wit siltskins that obscure good identification of sample; unwashed sample contains soil; grey with <10% strongly K-altered fragments; biotite altered to sericite and minor limonite;; no visible sulfides; trace magnetite; wet from surface.
6.1	59.5	BX	Pink breccia after phyric monzonite; moderate to very strong K-alteration - locally intense; excellent original textures; biotite altered to manganese oxide' 1-3% magnetite as disseminations <1mm and in stringers; <5% grey/dark grey monzonite lacks K-alteration - resembles C2 core where unaltered PP occurs as clasts within K-altered monzonitic cement; no visible oxides or sulfides. From 120': <2% clear to cloudy quartz as eyes and fragments < 3mm with conchoidal fracture. 145 - 170': Fault?; very strong K-alteration with moderate albite alteration; alterations are stronger than in adjacent intervals; <5% magnetite as disseminated crystals <1/2mm; >5% grey phyric monzonite; larger fragments and stronger alterations suggest fault/fracture; increased quartz (still volumetrically insignificant) imparts sub-vitreous luster locally; minor sericitization of modal feldspar. 170 - 195': More fine material; coarse washes sample contains much finer pieces. Note: Transitional 'contact' - arbitrarily assigned based on relative percentage of alteration.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR12-1	0.032	0.013	0.03	3.57	2	0	1		
6.1	13.7	IR12-2	0.139	0.040	0.15	4.36	3	1	1		
13.7	21.3	IR12-3	0.089	0.027	0.15	4.10	5	1	1		
21.3	29.0	IR12-4	0.077	0.021	0.12	3.65	5	2	2		
29.0	36.6	IR12-5	0.056	0.016	0.06	3.33	4	2	1		
36.6	44.2	IR12-6	0.074	0.022	0.11	2.83	4	2	1		
44.2	51.8	IR12-7	0.061	0.023	0.08	3.12	5	2	3		
51.8	59.4	IR12-8	0.055	0.018	0.10	3.28	5	2	2		
59.4	67.1	IR12-9	0.044	0.013	0.06	3.32	3	1	2		
67.1	74.7	IR12-10	0.050	0.015	0.07	3.13	4	2	2		
74.7	82.3	IR12-11	0.050	0.013	0.07	2.87	3	3	2		

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
59.5	82.3	BX	Dominantly K-altered monzonite breccia (75%) with <25% dark grey biotitic intrusive (fresh black biotite <1-2mm in grey, distinctive intrusive but with fine-grained matrix = mafic dyke? Or what Chris W. calls' lamprophyre'?; no visible Cu minerals; increased modal quartz and localized silicification, as from 120'; also with minor diorite-monzonite in biotite-rich dyke; moderate magnetite (2-3%) as disseminations in pink breccia - increases near lower contact. Note: consistently slightly larger fragments than higher in hole; minor limonite after biotite.												

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Drillhole Report

IR00-13

Zone	207	**Easting**	2257.5	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2815.5	**Logged By**	V. Park
		Elevation	1139.1	**Comments**	Damp to 13.7 m; wet from 59.5 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	33.5	BX	Mottled grey, yellow-grey and pink porphyritic monzonitic breccia; weak to locally moderately K-alteration affects 10-20% chips; dominant alteration is yellowish sericitic hue that affects modal feldspar; some feldspar altered to bright green mica; minor silicification locally adds vitreous sheen (sericite+quartz=phyllic?, no pyrite) - quartz increases with depth (silicification) and is associated with sub-mm clear veinlets; increased but still minor silicification starts to overprint original textures, which were well-preserved until now; ubiquitous disseminated magnetite; quartz-rich fragments often contain increased quantities of magnetite; organics and minor oxidation on fractures to 20'; damp samples to 45'; no visible Cu sulfides or oxides; transitional into:
33.5	45.7	MZ	Grey (mottled black and white) dioritic/monzonitic, weakly phyric intrusive; weak K-alteration near transitional margins only; moderately to strongly magnetitic - as sub-mm disseminated crystals and as clusters comprising up to 50% of some chips; trace pyrite; weak to moderate sericitization throughout - feldspars develop a very slightly sucrosic recrystallized texture; weakly silicified locally with clear quartz; not too exciting-looking, but clearly more magnetitic than adjacent intervals; transitional into next unit; doesn't seem brecciated, but high magnetite suggests grade.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR13-1	0.156	0.107	0.10	3.83	2	3	2		
6.1	13.7	IR13-2	0.262	0.192	0.28	3.17	2	3	2		
13.7	21.3	IR13-3	0.184	0.105	0.10	3.77	1	3	2		
21.3	29.0	IR13-4	0.125	0.071	0.19	4.39	2	3	2		
29.0	36.6	IR13-5	0.226	0.072	0.10	4.95	1	0	2		
36.6	44.2	IR13-6	0.425	0.027	0.34	6.84	0	1	3		
44.2	51.8	IR13-7	0.209	0.020	0.20	5.27	1	1	1		
51.8	59.4	IR13-8	0.135	0.006	0.12	3.51	2	1	3		
59.4	67.1	IR13-9	0.211	0.015	0.34	4.22	2	1	2		
67.1	74.7	IR13-10	0.161	0.022	0.19	3.43	3	1	2		
74.7	82.3	IR13-11	0.105	0.009	0.09	3.23	3	1	2		
82.3	89.9	IR13-12	0.156	0.016	0.13	3.52	3	1	3		
89.9	97.5	IR13-13	0.060	0.015	0.06	4.48	2	1	3		
97.5	105.2	IR13-14	0.065	0.012	0.05	2.44	4	2	3		

Lithology				Assay Results								Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
45.7	88.4	BX	Breccia; mottled pink and grey monzonite breccia; very strong phyric texture; K-alteration is increasingly well preserved to end of interval (affects 50 -95% chips) - does not destroy original textures; clear, slightly rounded quartz eyes <3mm are common but not abundant (<2%) - absent in previous intervals - with pink/orange stain locally; Cu minerals are not seen; ubiquitous disseminated magnetite (<7% locally); magnetite also as concentrations associated with rare secondary quartz; sericitization as second most dominant alteration - creates felted, slightly grainy texture where strongest; some biotite altered to sericite; sericitic and/ore argillic alteration of phyric feldspar; wet from 195m; difficult to determine contact.													
88.4	99.1	AP	Dark grey/grey-green intrusive/dyke?; very fine-grained hard, siliceous-looking groundmass with augite (?) phenocrysts and biotite >1mm; weakly to moderately magnetitic; minor sericitization; breaks into sharp-sided, smooth-sided chips; distinctly different than adjacent intrusive rocks; no phyric feldspars; dyke?, OR inclusions with a breccia?; intermixed with <10% K-altered intrusive,												
99.1	105.2	BX	Dominantly pink, very strongly K-altered, feldspar-phyric monzonite/syenite; probably brecciated intrusive; moderately to strongly magnetitic - ultra fine (<1mm) disseminations as above; weakly sericitized with intense sericitization locally; as 0 - 110', but much more K-altered - some original textures slightly overprinted; trace disseminated pyrite - rarely altered to dark red limonite on fracture surfaces; biotite altered ; no visible Cu minerals; PPp?												

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Drillhole Report

IR00-14

Zone	207	**Easting**	2273.4	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2786.4	**Logged By**	V. Park
		Elevation	1136.7	**Comments**	Wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	9.1	MZ	Medium to dark grey, feldspar-rich, non-phyric intrusive; similar to end of IR00-13 but with an equigranular groundmass and larger crystal size; biotite crystals<1-2mm are generally fresh but with altered edges - diorite to monzonite; very uniform colour is different from other holes on this fence; no K-alteration; moderately to strongly magnetitic - fine disseminations; very strong sericitization throughout creates yellowish dusting found on most surfaces; overall grain size seems to decrease to lower 'contact'; no visible Cu minerals.
9.1	21.3	BX	Breccia; mottled pink, grey and yellow monzonite; <50% chips with strong pervasive K-alteration; excellent original textures; weak to locally intense sericitization creates yellowish hue; minor argillic alteration of rare phyric feldspar crystals; <5% disseminated magnetite; no visible Cu minerals; transitional into:
21.3	39.6	MZ	Medium to dark grey monzonite/diorite; much as 0 - 30'; possibly brecciated but very difficult to tell; <5% rock shows pink K-alteration; slight yellowish mottling to moderately to locally strong sericitization and clay alteration (more clay alteration here than higher in hole) of modal feldspar; very, very weakly phyric; <5% disseminated magnetite <1mm; no visible Cu minerals; overall, all alterations seem to increase to end of interval; stronger alterations might possibly represent a fault.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR14-1	0.035	0.024	0.01	5.11	0		3		
6.1	13.7	IR14-2	0.088	0.066	0.06	3.83	1		3		
13.7	21.3	IR14-3	0.110	0.084	0.08	3.74	2		3		
21.3	29.0	IR14-4	0.063	0.043	0.01	4.50	1		3		
29.0	36.6	IR14-5	0.103	0.074	0.05	4.09	2		3		
36.6	44.2	IR14-6	0.154	0.120	0.18	4.03	3		2		
44.2	51.8	IR14-7	0.066	0.031	0.04	3.95	1		3		
51.8	59.4	IR14-8	0.064	0.021	0.05	4.46	1		3		
59.4	67.1	IR14-9	0.089	0.022	0.06	4.15	1		4		
67.1	74.7	IR14-10	0.039	0.013	0.04	3.39	4		4		
74.7	82.3	IR14-11	0.061	0.014	0.05	2.07	4		2		
82.3	89.9	IR14-12	0.131	0.017	0.39	1.55	4		2		
89.9	97.5	IR14-13	0.126	0.026	0.12	2.64	4		2		
97.5	105.2	IR14-14	0.231	0.027	0.58	4.23	2		3		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
39.6	67.1	MZ	Grey monzonite, as uphole, with <10% chips showing pervasive pink K-alteration; increasingly feldspar phyric to end of interval; strongly to very strongly magnetic - magnetite content increases to >10% near lower 'contact', as disseminations and stringers; no visible Cu minerals; minor but locally intense sericitization; doesn't seem like breccia, but could be.												
67.1	96.0	BX	Breccia; pink monzonite with very strong K-alteration; <5% of interval lacks potassic colour; dominantly non-phyric and original textures seem somewhat destroyed by alteration; moderately magnetic - less so than in adjacent rock; no visible Cu minerals; biotite is generally not well preserved.												
96.0	99.1	MZ	Dark grey diorite/monzonite, much as 0 - 30', but with only weak sericitization; fine-grained, glassy-looking matrix with biotite crystals - similar to end of hole in IR00-13; weakly magnetic; no Cu.												
99.1	105.2	MZ	Monzonitic intrusion with >10% rock showing K-alteration; could be breccia (I cannot tell); dominantly greyish with pink and yellow (sericitized)mottling, as 70 - 130'; moderately to strongly magnetic with magnetite disseminations <1mm; no Cu minerals; weakly feldspar-phyric; biotite is fresh and black.												

Drillhole Report

IR00-15

Zone	207	**Easting**	2316.3	**Drilled By**	IR Rig 4
Length (m)	89.9	**Northing**	2835.5	**Logged By**	V. Park
		Elevation	1138.8	**Comments**	Wet from 51.9 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	12.0	MZ	Monzonite; off-white; excellent igneous textures; weakly feldspar-phyric with feldspars altering to sericite and other green mica (roscolite?) and clay; greenish epidote on one surface; minor manganese oxide on some fractures; weakly sericitized throughout - gives felted coating; most biotite strongly altered; strongly magnetic with magnetite mostly as sub-mm disseminated crystals (7-10%); trace disseminated pyrite cubes <1/2mm; <25% chips show strong K-alteration that likely originated along fractures - decreases abruptly to end of interval.
12.0	20.0	BX	Magnetite breccia; moderately to strongly K-altered monzonite, as above, with >25% magnetite as massive concentrations, stringers and as disseminations that occasionally tend toward massive; original textures of pink intrusive are smeared and often destroyed; note: unwashed sample better represents actual magnetite content - most, except most competent pieces, was washed away during tray preparation; very distinct unit; trace disseminated pyrite.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR15-1	0.066	0.035	0.07	3.56	2		3		tr
6.1	13.7	IR15-2	0.086	0.048	0.10	4.31	0		4		tr
13.7	21.3	IR15-3	0.333	0.108	1.33	6.16	1		5		tr
21.3	29.0	IR15-4	0.148	0.022	0.24	3.41	4		3		1
29.0	36.6	IR15-5	0.192	0.018	0.25	2.79	4		3		tr
36.6	44.2	IR15-6	0.192	0.008	0.34	4.37	5		4		tr
44.2	51.8	IR15-7	0.200	0.013	0.37	6.21	5		5		
51.8	59.4	IR15-8	0.080	0.010	0.12	5.93	1		4		
59.4	67.1	IR15-9	0.084	0.027	0.15	5.18	1		4		
67.1	74.7	IR15-10	0.111	0.024	0.19	5.49	2		4		
74.7	82.3	IR15-11	0.111	0.027	0.14	4.43	1		3		
82.3	89.9	IR15-12	0.125	0.025	0.23	4.09	1		4		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
20.0	43.0	BX	Breccia; salmon pink; very strongly K-altered monzonite; weakly phyric - feldspar shows alteration to clay and sericite and tends to stand out in contrast to pink matrix; most biotite altered; strongly magnetic - magnetite as disseminated crystals to 1mm and as more concentrated clusters; magnetite finely ground and much was washed away during tray preparation - >10% throughout; <1% pyrite as blebs <1-2mm and as disseminated cubes; trace Cu oxide; trace epidote on fractures; strongly sericitized on some fractures; increase sericitization with depth; lower contact might be quite sharp.											
43.0	58.0	BX	Breccia; much as 40 - 60'; very strong K-alteration of monzonite increases to end of interval; 30 - 50% magnetite as massive concentrations and less commonly as disseminated crystals; magnetite is under-represented in the washed sample as the fine magnetite was washed away during preparation; trace disseminated and stringy pyrite throughout; increasing sericitization of matrix leading to increasingly incompetent, grainy-looking opaque rock; yellow sericite on fractures; minor Cu oxides.											
58.0	64.0	MTBX	Massive magnetite breccia; probably just an extension of above; magnetite occurs as massive chunks of black, featureless material; minor spotty oxidation,											
64.0	89.9	BX	Breccia; mixed monzonite and magnetite; <50% monzonite with strong K-alteration - mottled pink and grey and black; abundant magnetite as massive chunks comprising 10 - 35% of each interval; additional magnetite also as disseminations that eat 7 - 25% of rock; strong sericitization near upper 'contact'; as 170 - 190'; trace pyrite and chalcopyrite; minor epidote; lots of sericite.											

Drillhole Report

IR00-16

Zone	C2	**Easting**	2366.3	**Drilled By**	IR Rig 4
Length (m)	74.7	**Northing**	2876.6	**Logged By**	V. Park
		Elevation	1138.6	**Comments**	Damp to 13.7 m; damp 21.3 - 36.6 m wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	3.0	PPp	Pervasively K-altered monzonite; weakly phyric; modal biotite altering to sericite; <3% disseminated magnetite <1mm; minor manganese oxide on fractures; no visible Cu minerals.
3.0	12.8	MZ	Monzonite; mostly cream with greenish hue to greyish; <10% rock with strong to medium K-alteration - remainder is unaffected or very weakly altered; weakly magnetic - <3% magnetite <1/2mm disseminated throughout; >1% disseminated pyrite - usually tarnished or altered to dark red limonite; no visible Cu minerals; original textures well preserved, but with variable sericitization throughout, especially of some phyric feldspar; decreasingly magnetic; lower contact interpreted.
12.8	16.8	DYKE	Dark green-grey, fine-grained dyke; non-phyric; matrix is universally sericitized and locally epidotic, which contributes to green colour; small (1-2mm) black phenocrysts are only slightly phyric and not abundant; very weakly magnetic. No Cu minerals or pyrite; minor oxidation on fractures; distinctly different than adjacent intervals.
16.8	29.3	MZ	Greenish grey monzonite is increasingly pink to end of interval; weak to moderate K-alteration affects all rocks; phyric; black biotite with white sericitized edges; sericitization of modal feldspar increases to end of interval and begins to create grainy, opaque, recrystallized texture; epidote throughout, especially along fractures; no visible Cu mineral s; trace disseminated, oxidized pyrite cubes <1mm; <2-3% disseminated magnetite; abruptly into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR16-1	0.294	0.143	0.43	4.04	3		3		1
6.1	13.7	IR16-2	0.161	0.075	0.27	4.54	2		2		1
13.7	21.3	IR16-3	0.202	0.130	0.29	4.73	2		1		tr
21.3	29.0	IR16-4	0.291	0.218	0.59	5.65	2		3		tr
29.0	36.6	IR16-5	0.071	0.030	0.11	4.87	1		2		tr
36.6	44.2	IR16-6	0.085	0.034	0.10	4.28	1		1		tr
44.2	51.8	IR16-7	0.109	0.053	0.15	3.90	1		2		tr
51.8	59.4	IR16-8	0.088	0.043	0.15	3.90	2		3		tr
59.4	67.1	IR16-9	0.075	0.034	0.15	3.17	2		4		tr
67.1	74.7	IR16-10	0.115	0.057	0.15	3.32	3		4		tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.3	42.7	MZ	Monzonite; medium green-grey; <5% of rocks with strong K-alteration, increasing with depth; propylitic alteration is dominant; strongly sericitized matrix adds to grainy recrystallized appearance; epidote throughout; black biotite is very rare; moderately magnetic - 1-2% disseminated magnetite; very, very rare oxidized pyrite; no visible Cu minerals; blech.												
42.7	45.7	DYKE	Dark green dyke, as 42 - 55'; <5% biotite partially chloritized; greenish augite/pyroxene, therefore augite porphyry?; no sulfides or oxides.												
45.7	74.7	BX	Breccia?; monzonite, much as 96 - 140'; dominantly green-grey with pink mottling; K-alteration, originating as envelopes around fractures in propylitically altered rock, intensifies to end of hole - never affects >25% rock; propylitic alteration is dominant; abundant epidote gives rock it's strong green colour; moderate to strong sericitization, decreasing with increases K-alteration; ubiquitous disseminated cubes and fracture-controlled fresh yellow pyrite; no visible Cu minerals; increasingly magnetic - from <5% to >7% disseminated magnetite; minor tremolite; 1-2 strained-looking chips; very, very rare clear, hairline quartz stringers; biotite is always altered.												

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Drillhole Report

IR00-18

Zone	207	**Easting**	2285.6	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2789.9	**Logged By**	V. Park
		Elevation	1136.2	**Comments**	Wet from 44.2 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	15.2	BX	Breccia; after porphyritic monzonite; dominantly pink with grey and yellow-grey mottling; very strong K-alteration decreases to end of interval; moderate sericitization increases to intense - creates yellowish, felted text; <1% oxidized pyrite cubes <1/4mm as desseminations and concentrations on some fractures; no visible Cu oxide; trace chalcopyrite <1mm; 5 to 10% magnetite, usually disseminated but increasingly toward lower 'contact'; feldspar phyric textures are often preserved but crystals are usually altered to white clay +/or sericite +/1 roscolite (or other similar green mica); minor epidote on fractures from 20', increasing with depth; note: strongest alteration near 'lower contact' in all rocks - possible altered structure.
15.2	51.8	BX	Magnetite breccia; dark grey with varying amounts of medium grey and dark green-grey; some textures in host porphyritic monzonite are still discernible; most strongly altered fragments lack textures - occur as glassy-looking, very fine grained matrix with black biotite <2mm as phenocrysts; sericitization is moderate to strong throughout - intense near contacts (especially upper) to create bleached, very altered-looking rock to 100'; trace dark red, oxidized pyrite <1mm; no visible Cu minerals, although some chalcopyrite might be mixed in with magnetite; very, very weak K-alteration forms <<5% of rock mass; abundant magnetite (10-25%, possibly more) as dense disseminations and as massive pods - rarely oxidized; K-alteration intensifies slightly from 145'; minor epidote on fractures from 145'; wet from 145'; transitional lower 'contact'.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR18-1	0.127	0.105	0.12	4.00	3		3		tr
6.1	13.7	IR18-2	0.193	0.154	0.18	3.95	3		3		tr
13.7	21.3	IR18-3	0.102	0.075	0.14	5.30	1		3	tr	
21.3	29.0	IR18-4	0.089	0.050	0.12	5.66	0		4	tr	
29.0	36.6	IR18-5	0.029	0.008	0.05	5.03	0		5	tr	
36.6	44.2	IR18-6	0.062	0.013	0.05	5.66	1		4	tr	
44.2	51.8	IR18-7	0.051	0.015	0.05	5.58	1		4	tr	
51.8	59.4	IR18-8	0.119	0.019	0.19	5.01	3		3	1	
59.4	67.1	IR18-9	0.099	0.020	0.21	5.52	1		3	tr	
67.1	74.7	IR18-10	0.086	0.009	0.12	5.04	2		4	tr	
74.7	82.3	IR18-11	0.100	0.010	0.18	4.84	3		4	tr	
82.3	89.9	IR18-12	0.095	0.007	0.22	5.03	2		4	tr	
89.9	97.5	IR18-13	0.158	0.009	0.21	4.78	2		3	tr	
97.5	105.2	IR18-14	0.161	0.008	0.24	4.58	3		3	tr	

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
51.8	61.0	BX	Intrusive breccia, as 0 - 50'; mottled pink, grey. Yellow-grey, green-grey etc.; very strong to intense sericitization throughout creates bleached, altered-looking rock; K-alteration increases to end of interval; <1% chalcopyrite concentrated in fractures; magnetitic - usually disseminated - 5 to 10% locally; <3% epidote - distinctly more abundant than uphole; many original textures are preserved but feldspar phenocrysts are very strongly altered to sericite +/or clay: transitional into:												
61.0	74.7	BX	Intrusive breccia, as 0 - 50' and 170 - 200'; dominantly grey with <2% of rock K-altered; very, very strong sericitization; epidotic fractures; <1% yellow chalcopyrite on fractures; rare ultra fine disseminated pyrite; epidote throughout - most abundant 170 - 245'.												
74.7	105.2	BX	Breccia?; phyric monzonite, as above, but with strong K-alteration, originating along fractures, comprises <10% of rock - slightly stronger near start and end of interval; trace chalcopyrite on fractures - much less common than in 170 - 245'; very, very rare disseminated pyrite <1/2mm; moderately magnetitic - 5-10% - disseminated; ubiquitous moderate sericitization; feldspar phenocrysts are more strongly altered than groundmass; rock has slightly glassy luster - different than above; also contains clear quartz eyes <3mm; minor epidote; dominantly grey with pink K-altered component.												

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Drillhole Report

IR00-19

Zone	207	**Easting**	2324.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2747.8	**Logged By**	V. Park
		Elevation	1130.8	**Comments**	Wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	NR	No sample recovered.
6.1	13.7	BX	Intrusive breccia; dark orange due to strong pervasive staining due to oxidation and combined with very strong-alteration; <10% chips lack strong alterations, as greyish, siliceous-looking (but not); original textures weakly preserved - not obviously phyric; <1% malachite on fractures; trace disseminated, oxidized pyrite on fractures; ubiquitous sericitization; <3% disseminated magnetite; note: unwashed sample more resembles unconsolidated, soil-like material rather than broken bedrock; fault or overburden??
13.7	36.6	BX	Intrusive breccia; dominantly pink due to strong K-alteration, but with grey, less altered rock increasing to 10% by end of interval; original feldspar phyric texture is very well preserved; sericitized - very strong near center of interval and generally increasing to lower contact; trace epidote at center only; trace chalcopyrite on fractures; trace pyrite with oxidized rims on fractures and disseminated; moderately magnetitic - 3-5% disseminated; limonite stained envelopes on fractures (<2mm wide) to 70 m.
36.6	44.2	FAULT	Fault?; significantly larger and very slightly rounded chips; very wet sample; minor oxidation on fractures; mixed pink, K-altered monzonite as 20 - 120' with <5% uniform, grey rock; note: this rock is more suggestive of material typically collected at the top of a hole - often overburden - could this sample have been mislabeled?; note from driller indicates that no sample was collected from the op of the hole, and the abundance of water suggests that the sample came from depth.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR19-1	0.128	0.043	0.10	3.92	4		2	mal	tr
6.1	13.7	IR19-2	0.040	0.024	0.04	2.15	4		2		
13.7	21.3	IR19-3	0.046	0.031	0.02	2.38	4		2		
21.3	29.0	IR19-4	0.052	0.033	0.04	3.30	4		3		
29.0	36.6	IR19-5	0.090	0.041	0.12	3.68	3		1		

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py

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Drillhole Report

IR00-20

Zone	207	**Easting**	2532.9	**Drilled By**	IR Rig 4
Length (m)	89.9	**Northing**	2995.5	**Logged By**	V. Park
		Elevation	1146.0	**Comments**	Wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	3.0	OB	Overburden; large chips; dominantly K-altered monzonite with <25% dyke; manganese oxide on fractures; rare disseminated, oxidized pyrite.
3.0	12.2	FAULT	Monzonite; cream to yellow grey; intense argillic alteration - washed sample shows strong bleaching; clay is dominant in unwashed; soft, incompetent fragments; crude textures; very, very strong sericitization also; <1% dark orange disseminated limonite <1/2mm; rare magnetite; no visible Cu minerals; fault???
12.2	18.3	BX	Breccia; dark grey, fine grained, siliceous-looking, pinkish intrusive; trace limonite on fractures near upper contact; moderate K-alteration; trace malachite and chrysocolla on fractures, especially near 40'; >3% yellowish pyrite concentrated in fractures (>25% of some chips) and as fresh and oxidized, disseminated crystals and clots; <1% chalcopyrite with tarnish; trace disseminated pyrite; weakly magnetitic; nice-looking interval.
18.3	27.4	FAULT	Fault or very strong alteration zone; intensely clay and/or sericite altered, as 10 - 40'; off-white rock has incompetent, grainy, recrystallized texture; very, very weak K-alteration; original textures crude; combined with 10 - 40', this interval creates distinct alteration halo around good intersection; rare sulfides; contacts are possibly very sharp.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR20-1	0.123	0.084	0.12	3.97	3		1		tr
6.1	13.7	IR20-2	0.122	0.062	0.21	3.16	1		0	mal	tr
13.7	21.3	IR20-3	0.315	0.011	0.30	3.70	2		1	3	tr
21.3	29.0	IR20-4	0.169	0.008	0.09	3.90	1		1	tr	tr
29.0	36.6	IR20-5	0.075	0.007	0.03	4.30	1		3	5	tr
36.6	44.2	IR20-6	0.084	0.004	0.06	3.97	2		3	5	tr
44.2	51.8	IR20-7	0.075	0.004	0.04	4.04	2		3	5	tr
51.8	59.4	IR20-8	0.081	0.006	0.06	4.51	2		3	5	tr
59.4	67.1	IR20-9	0.056	0.005	0.04	4.17	1		3	3	tr
67.1	74.7	IR20-10	0.108	0.010	0.11	3.74	2		3	2	tr
74.7	82.3	IR20-11	0.089	0.006	0.09	5.23	1		4	tr	tr
82.3	89.9	IR20-12	0.072	0.005	0.08	4.00	1		2	tr	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
27.4	74.7	BX	Breccia; dark grey to pinkish grey, magnetitic monzonite; phyric textures and original igneous textures are absent or destroyed; ubiquitous surface sericitization; weak, yet pervasive and widespread K-alteration - slight increases in intensity locally; biotite altered to mica and/or ultra fine pyrite; >5% ultra fine grained yellow pyrite, usually on fractures, but also as disseminations; moderately magnetitic - strong locally - disseminated; chalcopyrite is often very closely associated with magnetite. 120 - 145' is clayey. 145 - 195' has increased K-alteration, trace sub-mm clear quartz veinlets and trace epidote; phyric texture in feldspar returns but is white and strongly clay altered. 195 - 200': fault? Clay-altered monzonite with trace oxidized pyrite. 200 - 245': monzonite textures are stronger; fine sulfides confined to fractures; increasing chalcopyrite; wet from 120'.												
74.7	89.9	BX	Breccia; as 90 - 245'; strong feldspar phyric texture; dominantly dark grey with very minor localized K-alteration and with patchy sericitization; minor fracture-controlled chalcopyrite; ubiquitous and locally strong disseminated magnetite; not as great as uphole.												

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Drillhole Report

IR00-21

Zone	207	**Easting**	2495.9	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2974.5	**Logged By**	V. Park
		Elevation	1146.3	**Comments**	Wet 13.7 - 21.3 m; wet 29.0 - 36.6 m wet from 51.8 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	OB	Overburden or other unconsolidated rock; mixed lithologies; dominantly pale pink, weakly to moderately K-altered monzonite, with most intense alteration as sub-mm envelopes along fractures; <10% grey intrusive; 1-3% disseminated magnetite; very, very rare oxidized sulfides on fractures; larger than average fragments; minor ubiquitous sericitization.
6.1	15.2	BX	Breccia; yellow/off-white intrusive; monzonitic host rock shows very strong to intense argillic and/or sericitic alteration; large clay quantity washed out during tray preparation; overall bleached appearance; original textures are very well preserved; feldspar also alters to roscolite-like mineral; biotite altered to chlorite; minor epidote on fractures; spotty magnetite throughout; trace oxidized sulfides on rare fractures; very weak localized K-alteration; possible marginal fault?; distinctly sucrosic, recrystallized textures increase to end of interval.
15.2	22.9	BX	Intrusive breccia; monzonite; mottled pink and grey due to variable alterations; strongest salmon pink K-alteration around fractures; remaining dark grey/green-grey monzonite is strongly sericitized; all original textures are preserved; non-phyric; >8% chalcopyrite, fresh yellow to black, as disseminated blebs and usually as fracture fill and as concentrations that completely saturate some chips; very strongly magnetitic; looks yummy!

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR21-1	0.046	0.032	0.04	3.69	1		1	tr	
6.1	13.7	IR21-2	0.072	0.055	0.11	3.79	1		2	tr	tr
13.7	21.3	IR21-3	0.212	0.072	0.22	5.08	2		4	8	tr
21.3	29.0	IR21-4	0.165	0.080	0.13	3.54	3		2	1	tr
29.0	36.6	IR21-5	0.121	0.033	0.08	5.35	1		5	4	
36.6	44.2	IR21-6	0.095	0.015	0.09	4.87	1		2	1	
44.2	51.8	IR21-7	0.092	0.006	0.06	5.04	1		5	3	
51.8	59.4	IR21-8	0.156	0.013	0.15	4.85	2		5	2	
59.4	67.1	IR21-9	0.121	0.012	0.24	4.40	2		3	1	
67.1	74.7	IR21-10	0.081	0.019	0.19	4.33	1		4	1	
74.7	82.3	IR21-11	0.083	0.023	0.10	3.78	1		3	1	
82.3	89.9	IR21-12	0.121	0.022	0.11	4.08	1		2	1	
89.9	97.5	IR21-13	0.094	0.015	0.09	3.80	1		2	1	
97.5	105.2	IR21-14	0.094	0.011	0.06	4.48	1		3	tr	

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
22.9	27.4	BX	Beige, clay altered monzonite breccia, as 20-50', but with decreased intensity; weak to moderate pervasive pink K-alteration; less grainy due to decreased sericitization; pearly luster of feldspar-rich groundmass is preserved; <1% fresh to tarnished chalcopyrite on fracture surfaces; trace dark red limonite after pyrite on some fractures; chalcopyrite also as sub-mm disseminated crystals; moderately magnetitic - usually disseminated, but interval also shows magnetite-coated micro-slickensides; chlorite and epidote are common; sharply into:												
27.4	36.6	BX	Magnetite breccia; black to dark grey; original monzonite is still easily recognized even though infused; very strong sericitization +/- chlorite leads to variably green, felted, grainy-looking rock; fragments have smoothed edges; <15% rock with strong, pink, pervasive K-alteration; >4% disseminated and fracture-related chalcopyrite - less oxidized than seen above; intensely magnetitic; wet.												
36.6	44.2	FAULT	Intensely sericitized and clay-altered monzonite breccia, as 70 - 95'; minor K-alteration; minor disseminated magnetite; featureless-looking rock could be leached/bleached fault/alteration zone between main breccias; <1% disseminated chalcopyrite.												
44.2	56.4	BX	Magnetitic breccia, as 90 - 120'; medium grey/green-grey to darker; decreased magnetite, but still abundant throughout; <5% K-altered fragments; glassy-pearly luster even though rock is strongly sericitized; <3% disseminated and blebby fracture-controlled chalcopyrite; sulfides decrease to end of interval; minor oxidation and limonite staining along fractures near upper contact; wet from 145'; reasonably abruptly into:												

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
56.4	105.2	BX	Intrusive-magnetite breccia; dominantly dark grey/black with <5% pink (K-alteration) mottling and <20% cream (sericite, clay and albite alteration) mottling; original textures are very well preserved, even where magnetite quantities are greatest; magnetite as dissminations to massive concentrations; <1% chalcopyrite throughout, usually as fresh, fine coating on fracture surfaces and rarely as more gaudy concentrations to 1/2cm; chalcopyrite decreases to end of hole; minor oxidation and very slightly larger chips near upper 'contact'; minor epidote throughout. 245 - 270': Fault? larger fragments and increased alterations of all types; overall bleached look. From 270': increased quantity of bleached-looking rock (is this albite?).													

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Drillhole Report

IR00-22

Zone	207	**Easting**	2478.3	**Drilled By**	IR Rig 4
Length (m)	89.9	**Northing**	2951.0	**Logged By**	V. Park
		Elevation	1147.7	**Comments**	Wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	19.8	BX	Breccia?; beige to beige-grey with <10% pink mottling; monzonitic host; (I can't tell if this is breccia or not!); K-alteration as mm-scale alteration envelopes around micro-fractures; moderate to locally intense sericitization - creates faint bleaching, local opacity and grainy textures; biotite altered to sericite and/or chlorite; minor epidotic fractures; strongest K-alteration 20 - 45'; all other alterations increase to end of interval, although lower 'contact' seems quite sharp; weird bright pink, ultra fine sericitic mica on chip surfaces 45 - 70'; increasingly magnetitic - 1-3% as fine disseminations; <1% former chalcopyrite on fracture surfaces; degree of oxidation decreases - trace sulfides by 45'; spotty manganese oxide on fractures ; original textures are very well preserved; non-phyric.
19.8	30.5	BX	Breccia; dark salmon-pink; very strongly pervasively K-altered monzonite; good pearly luster; minor surface sericite alteration; most biotite gone; moderately magnetitic; <1% tarnished/oxidized chalcopyrite on fractures; fairly homogeneous appearance; distinctly different than adjacent units.
30.5	38.1	BX	Breccia; mottled pink and yellow-pink; as 65 - 100', but with much stronger sericitization that leads to bleached, felted rock with grainy appearance; <1% chalcopyrite on fractures, usually tarnished but also as limonitic pseudomorphs; increased, but still minor, epidotic fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR22-1	0.117	0.065	0.11	3.43	3		1	tr	tr
6.1	13.7	IR22-2	0.158	0.101	0.12	4.31	2		2	tr	tr
13.7	21.3	IR22-3	0.105	0.071	0.13	3.68	3		3	tr	tr
21.3	29.0	IR22-4	0.080	0.050	0.06	2.48	5		4	1	
29.0	36.6	IR22-5	0.157	0.072	0.15	2.79	4		4	1	
36.6	44.2	IR22-6	0.166	0.021	0.16	2.93	4		4	3	
44.2	51.8	IR22-7	0.138	0.018	0.10	3.42	4		4	5	
51.8	59.4	IR22-8	0.115	0.017	0.09	4.10	1		4	tr	
59.4	67.1	IR22-9	0.081	0.017	0.07	4.10	1		4	tr	
67.1	74.7	IR22-10	0.057	0.012	0.05	3.60	1		4	tr	
74.7	82.3	IR22-11	0.067	0.013	0.06	2.49	1		4	tr	
82.3	89.9	IR22-12	0.062	0.012	0.06	2.30	2		4	tr	

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
38.1	57.9	BX	Breccia; mottled dark salmon-pink (K-altered rocks) and dark grey/black (magnetitic rocks) monzonite-magnetite; all fragments retain excellent igneous textures; pink fragments are less infused with magnetite than un-K-altered chips; <5% yellow chalcopyrite as disseminated blebs but usually as fine coatings on fracture surfaces; epidotic fractures, usually on pink rocks; very strong sericitization of grey rocks; fairly sharp contacts.												
57.9	89.9	BX	Intrusive breccia; dominantly grey/green-grey monzonite with <5% pink mottling; starts equigranular but is noticeably feldspar-phyric (white clay-altered phenocrysts <3mm) by 220'; moderately to locally intensely sericitized - green to yellow, felted to sucrosic, opaque recrystallized rocks; clear quartz eyes 3-4mm are not seen uphole; strongly magnetitic throughout; <1% chalcopyrite on fractures; minor epidote near upper contact.												

Drillhole Report

IR00-23

Zone	207	**Easting**	2507.6	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	2944.8	**Logged By**	V. Park
		Elevation	1146.0	**Comments**	Wet from 29.0 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.7	BX	Breccia; mottled grey and pink monzonite; original *non-phyric textures are very, very well preserved*; weak to moderate K-alteration throughout, <10% with intense pink alteration to end of interval, strongest on fractures; very rare epidote; <5% sub-mm disseminated magnetite cubes; no visible sulfides.
13.7	27.4	BX	Breccia; strong alteration zone or fault adjacent to lower unit; host rock is monzonite - original textures obliterated; cream to yellow/yellow-grey due to intense pervasive sericite and clay alterations; oxidation (limonite staining) on fracture surfaces near upper contact; <5% rock affected by pink K-alteration as envelopes around fractures; minor epidote on some fractures; rock has bleached, opaque, sucrosic recrystallized textured, incompetent-looking rock; all textures destroyed by intense alterations by lower contact; trace disseminated, oxidized sulfides on occasional fractures; <1% disseminated magnetite; abruptly into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR23-1	0.037	0.015	0.05	4.05					
6.1	13.7	IR23-2	0.021	0.009	0.03	3.76					
13.7	21.3	IR23-3	0.043	0.028	0.10	3.36					
21.3	29.0	IR23-4	0.225	0.021	0.48	4.07					
29.0	36.6	IR23-5	0.242	0.018	0.32	3.40					
36.6	44.2	IR23-6	0.099	0.007	0.08	3.19					
44.2	51.8	IR23-7	0.075	0.004	0.06	4.37					
51.8	59.4	IR23-8	0.081	0.004	0.07	4.84					
59.4	67.1	IR23-9	0.125	0.014	0.11	4.51					
67.1	74.7	IR23-10	0.091	0.012	0.09	4.35	2		4	1	
74.7	82.3	IR23-11	0.147	0.015	0.14	4.35	2		4	1	
82.3	89.9	IR23-12	0.123	0.021	0.12	4.19	2		5	tr	1
89.9	97.5	IR23-13	0.108	0.011	0.10	4.74	1		3	tr	tr
97.5	105.2	IR23-14	0.103	0.014	0.15	3.82					

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
27.4	48.8	BX	Breccia; monzonite-magnetite; dominantly dark pink (due to very strong, pervasive K-alteration) with dark grey mottling (<10% due to magnetite and/or unaltered rock); as 0 - 45' texturally but much more intensely K-altered; minor sericite; >5% chalcopyrite seen on most fractures; trace disseminated, oxidized pyrite/limonite cubes on occasional fractures; significant magnetite - saturates many chips; mineralization decreases near 'contacts'; wet.120 - 145': 1-2% native copper as clumps are rare sub-mm disseminated crystals; (while sample was being prepared, the spoon became coated with ground up native Cu, some of which was smeared on the boxes and also possibly downhole in the chip trays); significantly higher chalcopyrite on fractures and as disseminations; YUM!!													
48.8	64.0	BX	Breccia; grey and green-grey monzonite with <10% chips with pink K-alteration; original textures are blurred due to very strong modal alteration - rock has sugary, distinctly green, occasionally glassy, recrystallized look; one oxidized slickenside; very strongly magnetitic: <1% chalcopyrite on fractures; note: several chips show native copper, but this is likely a contamination (in the samples for logging only) as the prep spoon was coated with smeary Cu, from above - <1%; trace disseminated oxidized sulfides throughout; intense sericitization to end of interval (possible fault near lower contact?).													

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
64.0	105.2	BX	Breccia; monzonite and magnetite; dominantly grey with >25% pink; K-alteration originates around micro-fractures - these chips are often significantly larger than those of the less altered rock - more fractured? fault?; <1% chalcopyrite in fractures; magnetite (usually disseminated) throughout; oxidized sulfides near upper contact; minor modal quartz and faint feldspar-phyric textures develop toward end of interval - different from uphole; very strong sericitization at end of hole; disseminated and fracture-controlled pyrite also. Note: there are two samples for 270 - 295' - the 'B' sample is MUCH more impressive. 270 - 320': <10% pink K-alteration; from 320': epidote; some quartz eyes; slightly vitreous luster - more enhanced than seen uphole; also more strongly K-altered.													

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Drillhole Report

IR00-24

Zone	C Pit - East	**Easting**	2441.8	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	3070.0	**Logged By**	V. Park
		Elevation	1119.3	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	9.1	BX	Magnetite breccia; mottled black, green, pink and cream; fine-grained equigranular monzonitic intrusive has been very strongly sericitized even though original textures have been preserved; sericitized rocks have sucrosic, often incompetent-looking appearance; <10% rock with pink, pervasive K-alteration; minor epidote; several limonitic fractures; intensely magnetitic - as massive concentrations and densely disseminated to near saturation; minor hematite spots; trace green Cu oxide; fresh chalcopyrite (<3%) on fractures, often associated with paler yellow pyrite; sib-mm oxidized pyrite/limonite/hematite cubes are also seen in fractures; chalcopyrite and magnetite are very often intergrown; note: cp/mt content might be under-represented in washed tray as these minerals tens to wash out during tray preparation.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR24-1	0.457	0.089	0.30	7.19	1		4	3	1
6.1	13.7	IR24-2	0.194	0.065	0.11	6.53	1		3	1	tr
13.7	21.3	IR24-3	0.197	0.061	0.19	3.85	3		2	tr	tr
21.3	29.0	IR24-4	0.194	0.048	0.17	4.00	3		2	tr	tr
29.0	36.6	IR24-5	0.162	0.013	0.11	3.67	3		3	tr	1
36.6	44.2	IR24-6	0.185	0.025	0.14	3.54	3		3	tr	1
44.2	51.8	IR24-7	0.173	0.018	0.14	3.48	2		3	1	1
51.8	59.4	IR24-8	0.151	0.023	0.16	3.93	3		3	tr	tr
59.4	67.1	IR24-9	0.114	0.025	0.12	4.17	3		3	1	tr
67.1	74.7	IR24-10	0.231	0.026	0.27	4.33	2		4	tr	tr
74.7	82.3	IR24-11	0.186	0.026	0.15	5.03	2		4	tr	1
82.3	89.9	IR24-12	0.174	0.033	0.16	4.56	2		4	tr	tr
89.9	97.5	IR24-13	0.184	0.022	0.14	4.56	2		4	tr	tr
97.5	105.2	IR24-14	0.077	0.015	0.07	4.68	2		4	tr	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
9.1	71.6	BX	Breccia, after monzonite; dominantly pink/pink-grey; non- to very weakly feldspar-phyric; all original textures are preserved; very strong sericitization to 155' creates sucrosic, felted, often greenish appearance; from 155' rock appears silicified and rock faces are smooth and glassy and overall sulfide content increases slightly; moderately magnetitic - <5% disseminated and rarely massive magnetite throughout; ubiquitous chalcopyrite (<1%) and pyrite (<1% but much more abundant than cp), often intergrown, coats fractures and occurs as rare disseminated, occasionally oxidized crystals; in general, sulfides are very common but are not significant volumetrically; moderately pervasive K-alteration persists; minor epidote from 170'; from 195': feldspar phyric with white, partially altered crystals <4mm and rare clear to cloudy quartz eyes; gradational 'contacts'.												
71.6	82.3	BX	Magnetite breccia, as 0 - 30'; grey to green-grey monzonitic host; <10% rocks with orange to salmon-pink colour due to K-alteration along fractures; minor epidotic fractures; very strong but very localized sericitization; <1% pyrite and chalcopyrite on most fractures, usually fresh, but also tarnished or oxidized; strong magnetite infusion throughout groundmass and as more massive clots; mt-cp-py are often intergrown; trace Cu oxide (malachite; chrysocolla) on one chip.												
82.3	105.2	BX	Magnetitic breccia; mottled grey, black and pink; weakly porphyritic with feldspar crystals and clear quartz eyes <3mm; <10% strong K-alteration along fractures; minor epidote is common; sucrosic texture in <5% chips that are intensely sericitized; very strongly magnetitic - as interstitial concentrations and some massive chunks - gives a distinctly dark colouration to an otherwise leucocratic rock; <1% (locally higher) pyrite and chalcopyrite on fractures as less common disseminated blebs.												

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Drillhole Report

IR00-25

Zone	C Pit - East	**Easting**	2391.1	**Drilled By**	IR Rig 4
Length (m)	105.2	**Northing**	3064.0	**Logged By**	V. Park
		Elevation	1119.4	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Breccia; very strongly magnetitic - interstitial and massive; monzonitic host has greenish hue due to epidote, chlorite and sericite; overall sugary texture but some original, non-phyric textures are preserved; one fracture shows tiny, amber-coloured, translucent prismatic crystals <1/2mm; very slightly more modal quartz (clear and white) than is usually seen in monzonite; <5% patchy K-alteration; abundant sericitization; <1% chalcopyrite and pyrite, usually on fractures but rarely disseminated and occasionally intergrown with magnetite; minor limonite after sulfides and hematite after magnetite; note: 'contacts' are indistinct, but lower contact is assigned where epidote vanishes.
4.6	38.1	BX	Magnetitic breccia; dominantly grey to muted dark pink-grey with 5% of rock showing salmon pink colour; weakly feldspar-phyric monzonite host; most original fractures are very well preserved; vitreous luster (rock breaks along planes) near upper contact, becoming more sericitized, opaque and grainy-looking to end of interval (breaks along crystal boundaries); weak K-alteration throughout, with stronger fracture-related alteration 70 -95'; strongly magnetitic - usually as disseminated crystals (<1/2mm, <5%) to sub-cm massive chips; trace to 1% chalcopyrite and pyrite, occasionally partially oxidized on fractures - ubiquitous but volumetrically insignificant; mt-cp-py increase to end of interval; lower 'contact' might be faulted - clay clots and strong, dusty-looking alteration/pseudo bleaching of last sample.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR25-1	0.191	0.050	0.12	6.28	1		4	1	1
6.1	13.7	IR25-2	0.092	0.027	0.11	3.16	2		3	tr	tr
13.7	21.3	IR25-3	0.165	0.052	0.14	4.42	2		3	tr	tr
21.3	29.0	IR25-4	0.184	0.030	0.16	4.35	2		3	tr	tr
29.0	36.6	IR25-5	0.193	0.032	0.20	4.35	1		4	tr	tr
36.6	44.2	IR25-6	0.207	0.036	0.18	3.48	4		4	tr	tr
44.2	51.8	IR25-7	0.152	0.029	0.24	2.89	3		3	1	tr
51.8	59.4	IR25-8	0.113	0.020	0.13	3.06	3		3	tr	tr
59.4	67.1	IR25-9	0.115	0.035	0.14	2.67	5		2	tr	tr
67.1	74.7	IR25-10	0.137	0.030	0.24	3.25	5		2	tr	tr
74.7	82.3	IR25-11	0.107	0.037	0.17	2.62	3		2	tr	tr
82.3	89.9	IR25-12	0.064	0.011	0.12	3.20	1		2	tr	tr
89.9	97.5	IR25-13	0.090	0.030	0.09	3.90	1		2	tr	tr
97.5	105.2	IR25-14	0.100	0.035	0.11	3.84	1		3	tr	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
38.1	59.4	BX	Breccia; mottled grey and salmon pink (60:40); sub-vitreous luster (also due to K-alteration) and cleavage; original textures in magnetite-infused rock are discernible; in the pink, intensely K-altered rock the textures are overprinted and rock has a sub-earthy, opaque appearance; magnetite decreases to 3% disseminated crystals by end of interval; <1% fracture-bound chalcopyrite>pyrite, most plentiful at center of interval where K-alteration is most intense (and most localized) and fragments are noticeably larger = fault?; sulfides decrease toward margins; lower contact might be quite sharp.												
59.4	79.2	BX	Breccia; dark salmon pink rock stands out in stark contrast to adjacent intervals; original monzonite textures are barely discernible - intense K-alteration overprints everything and all rock has homogeneous appearance; <15% of rock lacks K-alteration and retains original textures and is often significantly more magnetitic; <2% in pink rock; trace chalcopyrite and pyrite on fractures; <5% rock mass with strong to intense sericitization.												
79.2	105.2	BX	Breccia; dominantly grey, green grey, cream and minor salmon pink; monzonite, as above but now most textures are preserved and the dominant alteration is propylitic with epidote, chlorite and sericite; very, very weak pervasive K-alteration throughout with intense alteration envelopes around fractures; moderately to strongly magnetitic; ubiquitous, but non-abundant chalcopyrite and pyrite on fractures - very often oxidized; note: very sharply defined upper contact - visually distinct!												

Drillhole Report

IR00-26

Zone	C Pit - East	**Easting**	2418.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3077.1	**Logged By**	V. Park
		Elevation	1119.0	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	BX	Monzonite breccia; mottled pink, grey and cream; original non-phyric textures are preserved' biotite remnants remain - altered to sericite, chlorite and occasionally replaces by pyrite - coated with manganese oxide on some fractures; pervasive K-alteration varies from weak to intense; minor sericitization; <1% magnetite as sub-mm disseminated crystals, occasionally oxidized; trace pyrite > chalcopyrite on fractures and as sub-mm blebs; minor epidote and chlorite; transitional into:
6.1	15.2	BX	Monzonite breccia, as 0 - 20' but with stronger K-alteration and sericitization; >1% pyrite > chalcopyrite on fractures as disseminated crystals and stringers; magnetite also more abundant - disseminated throughout and concentrated on fractures; transitional into:
15.2	29.0	BX	Monzonite breccia; dominantly grey with pink-grey mottling with shades of brown and green; overall fine-grained appearance due to destruction of original textures; vitreous luster; weak pervasive K-alteration increases slightly and is strongest along fractures; sericitization, along with chlorite, is strongest alteration; <2% chalcopyrite and <1% pyrite (higher locally) on fractures and as blebs; cp + mt +/- py are frequently intergrown; sulfides are occasionally oxidized 70 - 95': 1-2 chips with Cu-coloured mineral - possible native Cu? or an alteration of a another Cu mineral?; transitional into:

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR26-1	0.119	0.029	0.07	2.40
6.1	13.7	IR26-2	0.166	0.019	0.05	3.04
13.7	21.3	IR26-3	0.222	0.022	0.11	2.92
21.3	29.0	IR26-4	0.199	0.031	0.13	4.26
29.0	36.6	IR26-5	0.109	0.034	0.04	3.63
36.6	44.2	IR26-6	0.157	0.059	0.10	2.97

Alteration

K	A	M	cp	py
3		1	tr	tr
3		2	1	1
3		2	2	1
2		3	2	1
2		3	tr	1
3		2	tr	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.0	44.2	BX	Monzonite breccia; as 50 - 95', but with only 1% chalcopyrite and pyrite; very strong alterations - rocks have homogeneous, sub-translucent, textureless, vitreous appearance due to intense alterations; pervasive K-alteration increases to end of hole; disseminated and fracture-related sulfides and magnetite are frequently oxidized to dark orange and red pseudomorphs; significantly increased sericitization; minor epidote and chlorite = increased propylitic alteration.												

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Drillhole Report

IR00-27

Zone	C Pit - East	**Easting**	2391.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3084.0	**Logged By**	V. Park
		Elevation	1119.0	***Comments***	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	BX	Breccia: dominantly green, but with wide variations in colour (brown, pink, cream, white, black etc.); weakly porphyritic; dominant alteration is propylitic, with chlorite +/- epidote, but K-alteration, especially along fractures, is still strong; original textures destroyed; variable luster - felted and opaque to glassy and *translucent; some fragments appear bleached;* >1% chalcopyrite as semi-massive concentrations, stringers and on fractures; trace pyrite in similar occurrences; trace Cu oxide, usually immediately surrounding cp clots; weakly magnetic, but increasing to end of interval (to 3%) and completely saturating some chips; also lots of quartz (<5%); some weird amber-coloured crystals and some clear, acicular, radiating crystals.
7.6	21.3	BX	Breccia?; brown-purple, semi-translucent, sub-vitreous featureless rock with monzonite as possible protolith; minor K-alteration; minor epidote and chlorite; sericite and clay on surfaces; <5% black glassy rock - could be another rock type?; trace sulfides on fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR27-1	0.202	0.073	0.11	3.71	1		2	1	tr
6.1	13.7	IR27-2	0.203	0.067	0.17	3.18	1		2	tr	tr
13.7	21.3	IR27-3	0.137	0.048	0.12	3.15	1		2	tr	tr
21.3	29.0	IR27-4	0.202	0.103	0.15	3.24	3		2	1	tr
29.0	36.6	IR27-5	0.207	0.095	0.22	3.72	4		2	1	tr
36.6	44.2	IR27-6	0.165	0.079	0.20	4.49	3		2	1	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.3	44.2	BX	Monzonite breccia; mottled salmon-pink and dark grey; original textures are blurred but discernible; weakly feldspar-phyric; occasional biotite remnants; >10% black rock fragments are glassy and saturated with magnetite; <5% rocks with very strong, obvious epidotization and strong chloritization on some fractures; remaining rocks with very strong to intense pervasive K-alteration; all alterations increase to end of hole and rock loses its original textures; moderate sericitization; occasional 1-2mm white quartz veinlets; strongly magnetitic - >7% disseminated and more as concentrations; <1% chalcopyrite (and Cu oxide as malachite/chrysocolla near upper contact) on fractures and as blebs; trace pyrite throughout; minor rusty sulfides and magnetite on fractures.												

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Drillhole Report

IR00-28

Zone	C Pit - East	**Easting**	2466.0	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3210.4	**Logged By**	V. Park
		Elevation	1119.9	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	29.0	BX	Monzonite breccia; dominantly grey-pink with minor pink and grey mottling; good feldspar-phyric intrusive with very strong pervasive K-alteration - original textures are discernible but smoothed; remnant biotite decreases to end of interval; hard, angular fragments; moderately magnetitic - some on fractures is oxidized; sericitization increases and rock begins to lose pearly luster by end of interval; >1% pyritic fractures with minor associated chalcopyrite; occasionally oxidized; minor epidote along fractures; transitional into:
29.0	44.2	BX	Magnetitic monzonite breccia, as above, but with decreased K-alteration and quickly increasing sericitization; colour changes from pink-grey to dominantly grey; chip size has also decreased; K-alteration still remains dominant though; original textures are ruined; rare chalcopyrite and pyrite; definitely a change in alteration zone.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR28-1	0.086	0.004	0.11	3.48	4		3	tr	tr
6.1	13.7	IR28-2	0.142	0.003	0.14	3.43	4		3	tr	1
13.7	21.3	IR28-3	0.074	0.002	0.05	2.87	4		3	tr	1
21.3	29.0	IR28-4	0.077	0.001	0.11	2.94	4		3	tr	1
29.0	36.6	IR28-5	0.065	0.001	0.07	2.69	4		3	tr	tr
36.6	44.2	IR28-6	0.072	0.001	0.09	3.72	3		3	tr	tr

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Drillhole Report

IR00-29

Zone	C Pit - East	**Easting**	2484.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3185.9	**Logged By**	V. Park
		Elevation	*1120.0*	***Comments***	

Depth	**Az**	**Dip**	**Survey Type**
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	25.9	BX	Monzonite breccia; dominantly dark pink; non-phyric; white clay-altered feldspar crystals <2-3mm lack K-alteration and stand out in contrast to the strong pink colouration; original textures are very well preserved; altered remnant biotite remains; moderately magnetitic - in fractures and as disseminated crystals; *rare sulfides - pyrite on fractures and as* disseminations is much more common than similarly occurring chalcopyrite; larger angular chips show margins of unaltered rock; overall, K-alteration decreases and magnetite increases ; rare epidote; transitional into:
25.9	33.5	BX	Intermixed K-altered monzonite and grey unaltered feldspar porphyry with K-altered fractures; <1% pyrite >> chalcopyrite, as above; increased chalcopyrite near end of interval.
33.5	41.1	DYKE	Augite porphyry dyke; only one chip shows augite; rest is a dark green-grey, somewhat sugary-textured rock.
41.1	44.2	BX	Monzonite breccia with magnetite and weak K-alteration along fractures; trace sulfides on fractures; increased magnetite; otherwise as 85 - 110'.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR29-1	0.058	0.001	0.10	2.31
6.1	13.7	IR29-2	0.068	0.001	0.09	3.71
13.7	21.3	IR29-3	0.089	0.001	0.21	3.85
21.3	29.0	IR29-4	0.152	0.003	0.34	3.72
29.0	36.6	IR29-5	0.154	0.002	0.25	3.84
36.6	44.2	IR29-6	0.121	0.003	0.17	4.28

Alteration

K	A	M	cp	py
4		1	tr	tr
4		2	tr	tr
3		2	tr	tr
3		2	1	tr
2		3		
2		3		

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Drillhole Report

IR00-30

Zone	C Pit - East	**Easting**	2415.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3211.4	**Logged By**	V. Park
		Elevation	1119.7	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	21.3	BX	Monzonite breccia; mottled blue-grey and light green-grey with very minor pink; textureless, glassy-looking rock with strong green hue due to dominant propylitic alteration; most surfaces show some degree of sericitization; K-alteration as cm-scale alteration envelopes around fractures - steadily increasing to a much more dominant alteration toward end of interval; weakly magnetic - disseminated magnetite, often in same occurrences of former biotite; trace pyrite and chalcopyrite and malachite on occasional fractures; transitional into:
21.3	33.5	BX	Pink monzonite breccia; K-alteration is dominant; epidote is very rare; original igneous features are much better preserved (might not even be a breccia); up to 1% chalcopyrite, partially tarnished, on fractures and associated with pyrite +/or magnetite; increasingly magnetic.
33.5	44.2	DYKE	Dark green-grey glassy-looking dyke; non-phyric; no augite; hosts 1-5% ultra fine disseminated pyrite in groundmass; disseminated magnetite throughout; just looks like completely silicified rock - even yummier-looking than breccia.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR30-1	0.182	0.060	0.16	2.94	4		1	tr	tr
6.1	13.7	IR30-2	0.198	0.013	0.17	3.14	4		2	tr	tr
13.7	21.3	IR30-3	0.169	0.021	0.16	4.13	3		2	tr	tr
21.3	29.0	IR30-4	0.082	0.006	0.07	3.37	3		2	1	tr
29.0	36.6	IR30-5	0.162	0.010	0.16	3.45	2		3		
36.6	44.2	IR30-6	0.212	0.050	0.17	4.90	2		3		

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Drillhole Report

IR00-31

Zone	C Pit - East	**Easting**	2426.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3253.6	**Logged By**	V. Park
		Elevation	1120.5	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Monzonite breccia; pink with 25-40% unaltered rock; fine-grained, equigranular intrusive; excellent textures; large angular fragments; abundant fine black biotite; very strong K-alteration increases to end of interval; moderately to strongly magnetitic - occurs on fractures, as disseminations and as massive clumps (<1/2cm chip) with hematite; 0 - 95': contains 5-15% blue and green, very silicified rock (presumably invades monzonite) with significant disseminated (<<1/2mm) pyrite as well as many pyritic>chalcopyritic (intergrown) fractures; these silicified fragments are often further cut with mm-scale quartz veinlets that occasionally host sulfides on selvages; is this breccia cement?; localized epidotic fractures and slightly broader propylitization; from 95': mm-scale K-spar veinlets and clayey seams <1mm; K-alteration intensifies to a salmon-pink hue at end of hole.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR31-1	0.212	0.050	0.17	4.90	4		2	tr	tr
6.1	13.7	IR31-2	0.259	0.027	0.31	3.94					
13.7	21.3	IR31-3	0.231	0.006	0.29	4.28					
21.3	29.0	IR31-4	0.215	0.020	0.24	3.94	4		3		1
29.0	36.6	IR31-5	0.236	0.053	0.24	3.90	4		3		tr
36.6	44.2	IR31-6	0.247	0.011	0.27	3.45	4		3	tr	tr

Drillhole Report

IR00-32

Zone	C Pit - East	**Easting**	2361.6	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3244.1	**Logged By**	V. Park
		Elevation	1120.1	**Comments**	Wet from 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.7	BX	Intrusive breccia; dominantly pink to salmon-pink with minor grey mottling; equigranular to weakly feldspar-phyric textures are strongly evident; weakly to moderately magnetic - sub-mm disseminated crystals throughout; trace chalcopyrite on fractures; very rare disseminated oxidized pyrite; <5% chips lack intense pervasive K-alteration of remaining chips - typically contain more magnetite; pyrite>chalcopyrite also seen as fine stringers and interstitial clots, associated with magnetite; sharply into:
13.7	27.4	BX	Breccia?; grey (salt and pepper) monzonitic intrusive; dull, grey, equigranular; vitreous luster and rare chips appear distinctly silicified; original textures preserved, but increasingly blurred to end of interval; quantity of modal biotite increases; faint propylitic alteration right on fracture surfaces; <2% chips showing sub-cm K-alteration envelopes around fractures; magnetite disseminated throughout; <1% chalcopyrite, typically on fractures; trace ultra fine (<<1/2mm) disseminated pyrite and minor chalcopyrite; minor oxidation along fractures locally; sericitized.
27.4	32.0	DYKE	Dark grey/green-grey very fine-grained, slightly sugary textured intrusive with phyric black augite crystals (mm-scale); sericitized throughout; strongly magnetic.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR32-1	0.204	0.009	0.20	3.53	4		2	tr	tr
6.1	13.7	IR32-2	0.125	0.067	0.11	2.43					
13.7	21.3	IR32-3	0.151	0.065	0.15	3.63					
21.3	29.0	IR32-4	0.194	0.073	0.22	2.83	2		1		
29.0	36.6	IR32-5	0.149	0.064	0.16	3.94	1		3		
36.6	44.2	IR32-6	0.109	0.043	0.13	3.64	1		3		

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
32.0	44.2	BX	Intrusive breccia; dominantly grey with mottling with green-grey, dark grey and very, very rare pink; up close, rock has creamy to pale pink groundmass with *pink speckling; equigranular monzonite; original* textures are very well preserved, but a blurred, felted appearance is due to strong sericitization, combined with varying degrees of K-alteration and propylitic *alteration; fine black biotite (sub-mm) is common;* weakly to strongly magnetitic - crystals <1mm disseminated throughout; K-alteration is very strong along some fractures, but weakens; up to 1% pyrite>chalcopyrite as disseminated crystals, blebs and coating fractures; very minor patchy +/or referential oxidation of pyrite and magnetite; rare fragments with >5% pyrite and chalcopyrite; wet from 120'.												

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Drillhole Report

IR00-33

Zone	C Pit - East	**Easting**	2443.5	**Drilled By**	IR Rig 4
Length (m)	36.6	**Northing**	3228.6	**Logged By**	V. Park
		Elevation	1120.4	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	15.2	BX	Breccia?; strong pink monzonite with excellent *textures; locally porphyritic; many white feldspar* crystals show preferential argillic alteration that stands out in contrast to the strongly K-altered groundmass; ubiquitous sub-mm, partially oxidized biotite; epidote on some fractures; <5% disseminated magnetite; trace disseminated pyrite; blah-looking rock transitional into:
15.2	24.4	BX	Monzonite breccia; as above, but with decreased K-alteration; dominantly grey/green-grey; original textures discernible; epidote on fractures; sub-mm clay-altered white feldspar stringers; variably sericitized; >10% pyrite and chalcopyrite disseminated throughout and as concentrations in fractures; some chips are completely saturated with sulfides; strongly magnetitic - disseminated and *coating some fractures; best looking rock so far.*
24.4	36.6	BX	Pink magnetitic breccia, as 0 - 50'; very strong pervasive K-alteration; strongly epidotic fractures locally; excellent textures; rare pyrite and chalcopyrite; moderately magnetic.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR33-1	0.084	0.007	0.13	2.87	4		2	tr	tr
6.1	13.7	IR33-2	0.060	0.003	0.11	2.65	4		2	tr	tr
13.7	21.3	IR33-3	0.128	0.005	0.17	3.39	3		3	5	5
21.3	29.0	IR33-4	0.121	0.003	0.19	2.94	4		2	1	1
29.0	36.6	IR33-5	0.080	0.003	0.09	2.61	4		2	tr	tr

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Drillhole Report

IR00-34

Zone	C Pit - East	**Easting**	2440.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3190.2	**Logged By**	V. Park
		Elevation	1119.9	**Comments**	Damp to 13.7 m; wet from 21.3 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Breccia; equigranular monzonite - original textures blurred; grey/green-grey and pink-grey; pearly to sub-vitreous luster; weak to moderate pervasive K-alteration - fairly even; former biotite altered and appears replaced locally with pyrite; >6% combined pyrite and chalcopyrite - most commonly on fractures, but also finely disseminated - usually associated and intergrown with magnetite; some chips saturated with ultra fine sulfides; trace green Cu oxide on fractures; arbitrary 'contacts'.
4.6	15.2	BX	Breccia, as above, but with indistinct textures and more strong green and pink colouration; very strong sericitization creates sugary textures and most surfaces are coated with sericite and clay; variably, but generally weakly, K-alteration; oxidation on some fractures; vitreous luster locally; only minor (<1%) amounts of pyrite>chalcopyrite and disseminated magnetite still viewed in situ - assay results suggest that rock should be more sulfidic; stronger alteration suggests that this could be a fault.
15.2	38.1	BX	Intrusive-magnetite breccia; dominantly grey with green-grey and pink mottles; weak alteration throughout - intense in <5% mass; original monzonite textures are preserved; minor chalcopyrite; very strongly magnetitic - increases to end of interval to 40%, completely infusing some silicified-looking chips; >5% chalcopyrite>pyrite, associated with magnetite, usually on fractures and often partially oxidized, but also disseminated throughout forming interstitial networks; trace chalcopyrite on rare fractures; best-looking rock so far.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR34-1	0.200	0.009	0.15	3.11	2		1	3	3
6.1	13.7	IR34-2	0.232	0.026	0.17	3.07	1		1	tr	tr
13.7	21.3	IR34-3	0.232	0.052	0.30	3.22	1		1	tr	tr
21.3	29.0	IR34-4	0.479	0.059	0.40	3.98	2		3	2	2
29.0	36.6	IR34-5	0.268	0.020	0.33	4.95	1		4	3	2
36.6	44.2	IR34-6	0.193	0.017	0.21	3.59	4		2	1	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
38.1	44.2	BX	Dark pink/salmon pink, K-altered monzonite breccia; reasonably unaltered-0looking; excellent non-phyric textures; trace pyrite and chalcopyrite; moderately magnetitic.												

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Drillhole Report

IR00-35

Zone	C Pit - East	**Easting**	2439.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3155.7	**Logged By**	V. Park
		Elevation	1119.6	**Comments**	Wet 13.7 - 21.3 m; wet from 29.0 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	BX	Monzonite breccia; medium-grey/pink; pervasively K-altered equigranular monzonite with excellent textures; epidotization along a few fractures; remnant altered biotite; sub-vitreous luster: disseminated magnetite - >10% of many chips; >2% chalcopyrite>pyrite, usually associated with magnetite, as interstitial networks and on fractures (very common).
6.1	15.2	BX	Breccia: dusty grey/pink-grey monzonitic intrusive as IR00-34 15 - 50'; slight greenish hue also; original textures are blurred but preserved; abundant sericite and clay in this sample suggests possible fault; very trace quantities of disseminated pyrite and chalcopyrite; moderately magnetitic; trace oxidation on some fractures.
15.2	44.2	BX	Breccia; pink/grey-pink monzonitic intrusive, as above; develops green colouration due to increasing epidotization, strongest along fractures and migrating out; moderate to strong pervasive K-alteration throughout; original textures are easily seen but are imperfectly preserved; strong sericitization locally creates opaque, grainy rock; minor oxidation on fractures; weakly to moderately magnetitic - decreasing from top; trace to 2% chalcopyrite>>pyrite on fractures and also as disseminated cubes and blebs - often associated with magnetite; minor spotty oxidation, especially 79 - 95'.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR35-1	0.200	0.008	0.25	3.46	4		3	2	tr
6.1	13.7	IR35-2	0.128	0.005	0.13	3.46					
13.7	21.3	IR35-3	0.195	0.005	0.23	3.65					
21.3	29.0	IR35-4	0.210	0.019	0.21	2.76	1		2	tr	tr
29.0	36.6	IR35-5	0.096	0.007	0.11	3.43	2		2	tr	tr
36.6	44.2	IR35-6	0.185	0.006	0.14	3.43	2		3	tr	tr

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Drillhole Report

IR00-36

Zone	C Pit - East	**Easting**	2464.3	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3102.3	**Logged By**	V. Park
		Elevation	1119.8	**Comments**	Wet from 29.0 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	21.3	OB	Monzonite breccia; dominantly grey with pink K-alteration as sub-cm envelopes along fractures; equigranular original textures are strongly evident; weak K-alteration also pervades groundmass, increasing to end of interval; minor epidote along some fractures; 5-10% sub-mm black biotite; >5% disseminated magnetite; trace disseminated fracture-controlled pyrite and chalcopyrite associated with magnetite; sub-mm clear and cloudy quartz veinlets are rare - not usually seen in monzonite. 20 - 45': very strongly sericitized; dusty hue ad original textures blurred; slight increase in fracture-controlled sulfides.
21.3	30.5	BX	Breccia?; fault?; pale pink monzonite with green splotches due to localized epidotization; original textures preserved, but strong sericitization coats all surfaces, leading to felted, more altered-looking interval; increased magnetite; up to 1% disseminated chalcopyrite, often intergrown with magnetite; wet from 95'.
30.5	36.6	BX	Monzonite breccia, as 0 - 70'; mottled grey with lesser pink due to K-alteration; excellent textures improve with depth; epidote along fractures is common; transitional into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR36-1	0.213	0.011	0.29	4.07	1		2	tr	tr
6.1	13.7	IR36-2	0.167	0.005	0.18	3.55					
13.7	21.3	IR36-3	0.099	0.003	0.11	2.83					
21.3	29.0	IR36-4	0.145	0.006	0.12	3.21	2		3	1	tr
29.0	36.6	IR36-5	0.091	0.003	0.09	3.67	1		3	1	1
36.6	44.2	IR36-6	0.153	0.004	0.19	4.36	3		4	5	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
36.6	44.2	BX	Monzonite breccia, as 100 - 120'; dominantly pink to pink-grey; excellent textures; weak to moderately pervasive K-alteration; epidotic fractures and pods - minor, but increasing; strongly magnetitic - some chips are completely saturated - usually disseminated and very commonly on fractures; <5% chalcopyrite>pyrite with magnetite, usually as thick (sub-mm) concentrations in fractures, but also *disseminated throughout*; 5-10% black, *silicified*, variably magnetitic rock chips are saturated with chalcopyrite +/- magnetitic +/- pyrite and contain several cloudy and clear quartz eyes - textures indicate that this is an intrusive; best-looking interval in this hole.												

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Drillhole Report

IR00-37

Zone	C Pit - East	**Easting**	2469.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3133.5	**Logged By**	V. Park
		Elevation	1119.7	**Comments**	Wet from 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	18.3	BX	Monzonite or monzonite breccia; grey, fine-grained equigranular; minor patchy K-alteration increases to end of interval; all original textures are very well preserved; rare epidote; occasional sub-mm cloudy quartz veinlets; >10% magnetite disseminated throughout and as significant encrustations on fractures - often in similar occurrences to abundant sub-mm shiny black biotite; trace chalcopyrite and pyrite on fractures - quantities are much greater locally and increasing to end of interval; silicification near lower contact; wet from 20'.
18.3	27.4	BX	Fault/vein?; dark grey to black; intensely silicified (as chips in IR00-36 120 - 145') - rare chips display intrusive textures through silica; variably, but generally weakly, magnetitic; >10% light yellow sulfides (I say pyrite) as mm-sale clots, intergrown with chalcopyrite and magnetite, as coatings on fractures surfaces and as ultra fine disseminations - could be chalcopyrite (?, colour is wrong).
27.4	35.1	BX	Mottled grey and pink, silicified monzonite breccia; silicification and K-alteration as strongest alterations, otherwise as 0 - 60'; >3% chalcopyrite +/- 2% pyrite on fractures; strongly magnetitic; occasional oxidized fractures; minor epidote; <10% chips are very, very biotitic and magnetitic and with clots of chalcopyrite/pyrite; silicification decreases; hairline clear quartz veinlets; one sub-cm quartz chip; 1-2 chips with gorgeous green and pink (combine propylitic and potassic alterations), sulfidic.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR37-1	0.044	0.005	0.04	4.79	1		3	tr	tr
6.1	13.7	IR37-2	0.124	0.021	0.09	3.81					
13.7	21.3	IR37-3	0.160	0.008	0.11	3.64					
21.3	29.0	IR37-4	0.273	0.005	0.31	3.14	2		3	3	2
29.0	36.6	IR37-5	0.227	0.010	0.24	3.53	2		3	tr	tr
36.6	44.2	IR37-6	0.191	0.019	0.15	3.37	4		3	2	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
35.1	38.1	DYKE	Dark green-grey, chloritized biotite-rich dyke (is this what they're calling lamprophyre?); extremely incompetent - can be crushed with minimal pressure from fingernail; not magnetitic or sulfidic.												
38.1	44.2	BX	Dark pink/salmon pink monzonitic breccia with 5-10% grey mottling from un K-altered rock; distinctly visually different from adjacent units; K-alteration is very strong and pervasive - smooth original textures; 5-10% biotite and magnetite speckles; 10% chips are same dark grey, silicified rock as 60 - 90'; occasional sub-mm could and smoky quartz veinlets; 2-3% chalcopyrite +/- pyrite, usually on fractures, but also disseminated - especially in silicified rock; decent-looking interval..												

Drillhole Report

IR00-38

Zone	C Pit - East	**Easting**	2486.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3154.9	**Logged By**	V. Park
		Elevation	1120.0	**Comments**	Wet from 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	29.0	BX	*Breccia; pale pink/pink-grey monzonite; moderately to* locally strong pervasive K-alteration; epidote and chlorite on fractures; >10% rocks with more dominant *green hue due to chlorite, epidote and sericite;* original textures are strong; <5% magnetite disseminated throughout - several faults with much *higher concentrations; rare chips with strong oxidation* of magnetite with pervasive staining of groundmass; <5% chips with silicification; one sub-cm quartz-feldspathic *veinlet with 1mm clear quartz* veinlets/selvages with chalcopyrite and pyrite - weakly oxidized ; up to 1% chalcopyrite, usually in fractures, but also as disseminated crystals and blebs; chalcopyrite and pyrite are associated with magnetite; magnetite significantly increases, especially on fractures, from 45'. 65 - 70': green intrusive; sucrosic texture; epidote, chlorite, sericite; decreased magnetite in some chips while others are completely saturated; >5% very fine grained disseminated pyrite and chalcopyrite - also on fractures; transitional into:
29.0	44.2	BX	Breccia, as above, but with >2% chalcopyrite and 1% pyrite disseminated and in fractures; increased magnetite throughout - >40% of some chips; >10% dark green, propylitized chips (lots of epidote, chlorite, sericite and incompetent sugary masses) also with abundant magnetite and chalcopyrite; trace malachite; excellent textures, except in greenish rocks; K-alteration is less intense and is strongest along fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR38-1	0.313	0.020	0.30	3.77	3		3	tr	tr
6.1	13.7	IR38-2	0.155	0.004	0.16	3.53					
13.7	21.3	IR38-3	0.155	0.011	0.16	3.42					
21.3	29.0	IR38-4	0.079	0.007	0.07	3.45	3		2	tr	tr
29.0	36.6	IR38-5	0.143	0.010	0.12	3.36	3		3	1	tr
36.6	44.2	IR38-6	0.255	0.039	0.24	3.72	2		4	2	1

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Drillhole Report

IR00-39

Zone	C Pit - East	**Easting**	2462.1	**Drilled By**	IR Rig 4
Length (m)	36.6	**Northing**	3169.9	**Logged By**	V. Park
		Elevation	1119.6	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	36.6	BX	Breccia; salmon pink monzonite; intense pervasive K-alteration of equigranular monzonite; large angular fragments; blurred but discernible textures; minor biotite and magnetite provide black speckles; some feldspar is white and sericite and clay altered; weakly to rarely moderately magnetitic - increases to end of interval; epidote on occasional fractures; very rare disseminated pyrite. *45 - 70': trace malachite.* 95 - 120': 5-10% black, non-magnetitic, weakly silicified dyke material; very little variation throughout; not phyric (but is this what CW calls PPp?)

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR39-1	0.083	0.052	0.09	2.48	5		1		
6.1	13.7	IR39-2	0.139	0.077	0.17	2.93					
13.7	21.3	IR39-3	0.112	0.066	0.12	2.79					
21.3	29.0	IR39-4	0.151	0.075	0.16	3.22	5		1		
29.0	36.6	IR39-5	0.125	0.063	0.15	3.38	4		1		

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Drillhole Report

IR00-40

Zone	C Pit - East	**Easting**	2438.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3128.8	**Logged By**	V. Park
		Elevation	1119.6	**Comments**	*All wet*

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Breccia; deep pink due to strong (and increasing) pervasive K-alteration; original textures, well preserved near top are decreasingly distinct; modal quartz is more common (<5%) near top; disseminated *magnetite decreases to end of interval*; biotite decreases; rare pyrite and chalcopyrite as crystals on fractures; very rare sub-mm quartz-magnetite chips +/- hematite; not very interesting-looking.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR40-1	0.129	0.007	0.14	2.97
6.1	13.7	IR40-2	0.093	0.003	0.10	2.65
13.7	21.3	IR40-3	0.119	0.004	0.14	2.98
21.3	29.0	IR40-4	0.118	0.011	0.10	2.78
29.0	36.6	IR40-5	0.101	0.009	0.11	2.60
36.6	44.2	IR40-6	0.133	0.007	0.14	2.59

Alteration

From	To	K	A	M	cp	py
0.0	6.1	4		2		
6.1	13.7	4		2		tr
13.7	21.3	4		3		
21.3	29.0	4		2	tr	tr
29.0	36.6	4		1		
36.6	44.2	4		1		

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Drillhole Report

IR00-41

Zone	C Pit - East	**Easting**	2429.5	**Drilled By**	IR Rig 4
Length (m)	38.1	**Northing**	3096.8	**Logged By**	V. Park
		Elevation	1119.3	***Comments***	*Wet from 29.0 m*

Depth	**Az**	**Dip**	**Survey Type**
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.1	MZ	Monzonite; breccia?; creamy and pale green; earthy; fine-grained equigranular; intense sericitization creates sugary texture but original textures are still seen; minor epidote and chlorite; occasional fragments with oxidized fractures and minor pervasive *staining; visually distinct;* <1% disseminated chalcopyrite, occasionally oxidized - associated with magnetite; (weird).
6.1	29.0	BX	Breccia; mottled dusty dark pink and dusty dark grey; *pink fragments with intense/strong pervasive* K-alteration are better preserved texturally; 50% chips are grey/green-grey and show very strong sericite, chlorite and epidote alterations - sugary, incompetent-looking rock; all textures improve to end of interval; K-alteration decreases after 45', but is always present in a muted way; becomes slightly bleached at end of interval; <1% chalcopyrite +/- pyrite, disseminated throughout and concentrated on fractures - *ubiquitous, but not significant; strongly magnetitic.*
29.0	38.1	BX	Grey monzonite breccia; strongly magnetitic; as above but with very minor K-altered; original textures are discernible but blurred; patchy silicification and rare sub-mm clear quartz veinlets; 2% chalcopyrite near 95' rapidly increases to >10% from 120' - copper-coloured disseminated crystal, stringers and fractures with associated pyrite; yum.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR41-1	0.299	0.019	0.28	5.37
6.1	13.7	IR41-2	0.164	0.007	0.20	4.55
13.7	21.3	IR41-3	0.107	0.005	0.08	3.91
21.3	29.0	IR41-4	0.091	0.004	0.09	3.50
29.0	36.6	IR41-5	0.206	0.007	0.20	3.52
36.6	38.1	IR41-6	0.225	0.009	0.19	3.87

Alteration

From	To	K	A	M	cp	py
0.0	6.1	1		1	1	
6.1	13.7					
13.7	21.3					
21.3	29.0	1		3	tr	
29.0	36.6	2		4	2	
36.6	38.1	1		4	10	1

Drillhole Report

IR00-42

Zone	C Pit - East	**Easting**	2411.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3115.2	**Logged By**	V. Park
		Elevation	1119.4	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	33.5	BX	*Monzonite breccia; pink/grey with minor green;* moderate pervasive K-alteration throughout - variable quantities of rock are unaffected; original non-phyric *textures are well preserved, although blurred where* all alterations are stronger (eg. 20 - 45', where broken fragments are smooth with sharp edges); black biotite <1mm is abundant throughout; magnetite, strongest on fractures, but also disseminated, is moderate; <1% ubiquitous pyrite as blebs, blotches most commonly seen on fractures; minor chalcopyrite (<<1%) on occasional fractures and also as ultra fine (<<1 mm) disseminated crystals (eg. 40% of 0 - 20', <5% through remainder) with strong associated chloritization and sericitization, increasing to lower contact; localized quartz veining (eg. 45 - 70': sub-cm milky quartz veinlets with sulfides along outer selvages); rock becomes silicified toward lower contact; from 95': mineralization also increases; arbitrarily into;
33.5	38.1	BX	Quartz-magnetite breccia; silica and magnetite invade monzonite; rock fragments are very black, variably magnetic (usually strong), host increased amount of chalcopyrite and pyrite and are also cross-cut by clear and cloudy sub-mm quartz veinlets; resembles IR00-37 60 - 90' and IR36 70 - 100'; possibly just vein-like structure.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR42-1	0.302	0.010	0.34	4.67	2		3	tr	1
6.1	13.7	IR42-2	0.091	0.002	0.08	3.01					
13.7	21.3	IR42-3	0.064	0.006	0.06	3.41					
21.3	29.0	IR42-4	0.060	0.016	0.06	3.24	3		3	tr	tr
29.0	36.6	IR42-5	0.137	0.022	0.09	3.59	2		3	1	tr
36.6	44.2	IR42-6	0.076	0.017	0.08	4.32	2		3		tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
38.1	44.2	BX	Breccia?; mottled grey and black monzonitic intrusive; relatively coarse-grained; original textures are very strongly evident; black and brown biotite; decreased magnetite; strong K-alteration doesn't affect all minerals - most white feldspar remains fresh and unaltered; patchy alteration on fractures; occasional epidotic fractures; pyrite as clots on fractures, occasionally with minor chalcopyrite.												

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Drillhole Report

IR00-43

Zone	C Pit - East	**Easting**	2390.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3106.4	**Logged By**	V. Park
		Elevation	1119.6	**Comments**	Wet from 29.0 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	12.2	BX	Monzonitic breccia; mottled grey and pink; equigranular; vitreous luster; homogeneous look - not much distinction between grain boundaries; variable K-alteration (<10% very strongly altered), probably as alteration envelopes around fractures; sericitized throughout; chloritized and sericitized biotite; rarely black; rare quartz eyes; very few fractures with minor epidote. Ubiquitous (<1%) pyrite on fractures, occasionally associated with very, very minor chalcopyrite; pyrite is usually fresh, but oxidation on fracture surfaces are also present; weakly magnetitic, increasing with depth.
12.2	15.2	DYKE	Dyke (?); dark grey/green-grey, glassy, very fine-grained intrusive; no textures; breaks into angular pieces with sharp edges, like glass; 1-2mm biotite as phenocrysts; epidote on some fractures; very strong chloritization +/- epidote on rare chips; non- to very weakly magnetitic. Most fractures with fresh or oxidized pyrite; rare blebby pyrite.
15.2	44.2	BX	Breccia; non-phyric, monzonitic host; very strong pervasive K-alteration creates pink/salmon-pink colouration; original textures improve to end of hole; altered biotite; >5% disseminated magnetite - more magnetic than near top of hole; magnetite speckles are often altered to hematite; occasional micro-massive magnetite associated with minor quartz. <1% ubiquitous fresh and oxidized pyrite on fractures and as disseminated clusters. From 29.0 m: wet; decreasingly K-altered; improved textures; overall, less altered; increased magnetite.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR43-1	0.103	0.012	0.08	1.86
6.1	13.7	IR43-2	0.115	0.030	0.11	2.56
13.7	21.3	IR43-3	0.138	0.067	0.14	2.86
21.3	29.0	IR43-4	0.095	0.050	0.11	2.11
29.0	36.6	IR43-5	0.098	0.048	0.12	3.06
36.6	44.2	IR43-6	0.107	0.029	0.12	3.49

Alteration

K	A	M	cp	py
2		1	tr	tr
4		2		tr
4		3		tr
3		3		tr

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Drillhole Report

IR00-44

Zone	C Pit - East	**Easting**	2369.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3090.9	**Logged By**	V. Park
		Elevation	1119.8	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	10.7	BX	Breccia/fault?; flat, light green, green and grey-green, intensely altered to clay +/- sericite +/- chlorite +/- epidote; earthy, bleached-looking incompetent, clayey fragments; rare mm-scale white quartz veinlets preserved as competent unit; <20% competent, hard fragments are strongly magnetitic, with hematitic, slickensided fractures; patchy, mostly fracture-controlled oxidation; mm-scale K-altered enveloped around fractures; rare chips almost all crystalline epidote; monzonitic textures reappear by end of hole. <1% pyrite, rarely fresh - usually as disseminated, rusty, sub-mm crystals; such strong alterations are *indicative of a fault or alteration near a fault.* From 7.6 m; decreased argillic/propylitic alteration and increased potassic alteration; good igneous textures. Note: much of crushed, fine material has been washed out of sample during tray preparation.
10.7	15.2	DYKE	Dyke; dark grey /green-grey, glassy-looking fine-grained magnetitic intrusive, as IR00-43 12.2 - 15.2 m; augite porphyry; most surfaces with moderate sericitization; strongly magnetitic matrix; occasional epidotic fractures; weak and variable chloritization +/- epidote; trace oxidized fractures and pyrite in fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR44-1	0.280	0.071	0.47	4.52	1		3		tr
6.1	13.7	IR44-2	0.122	0.081	0.13	3.26					
13.7	21.3	IR44-3	0.116	0.043	0.16	2.28					
21.3	29.0	IR44-4	0.100	0.032	0.12	2.89	2		2		1
29.0	36.6	IR44-5	0.106	0.024	0.15	3.18	1		4	tr	1
36.6	44.2	IR44-6	0.165	0.029	0.18	3.97	1		4	tr	1

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
15.2	22.9	BX	Monzonitic breccia; weakly feldspar-phyric; very strong pervasive K-alteration affects >80% of rock, turning it to a deep salmon-pink; remaining rock is grey or mottled grey and pink; pink and grey rock retain original textures; pink rock is less magnetitic than the grey which hosts sub-mm disseminated cubes throughout and is associated with pyrite +/- *chalcopyrite on fractures; rare epidotic fractures;* moderate and variable sericitization. <1% fresh and oxidized pyrite, rarely associated with chalcopyrite, usually on fractures; sub-mm biotite, pyrite and magnetite cause blackish speckling in pink rock. Transitional into:													
22.9	44.2	BX	Breccia?; monzonite to diorite; overall grey with minor mottling with grey and rare pink; equigranular; good textures; very fine-grained and glassy, dyke-like near upper contact; darkest fragments are often strongly magnetic; sericite, chlorite +/- epidote throughout; *very, very rare K-alteration along fractures;* increasingly sericitic to end of hole - creates sugary-looking, opaque, dusty, distinctly more strongly altered appearance; chloritization increases to end of hole. At least 1% partially oxidized pyrite, rarely associated with trace chalcopyrite, on many fractures and as less common blebs - much more pyritic than uphole with marginally more chalcopyrite. Wet from 29.0 m.													

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Drillhole Report

IR00-45

Zone	C Pit - North	**Easting**	2146.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3534.3	**Logged By**	V. Park
		Elevation	1109.8	**Comments**	Wet 21.3 - 36.6 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Breccia; Dark grey, magnetitic monzo-dioritic breccia; excellent textures; 1-2 mm feldspar crystals altered in situ to opaque white clay and sericite; abundant magnetite as most obvious feature, as disseminated cubes <1mm, on fractures and occasionally massive; abundant variably altered biotite; rare clear and lightly orange-stained quartz eyes. <1% weakly oxidized pyrite +/- minor chalcopyrite on many fractures; more Cu minerals might be mixed. Transitional into:
4.6	24.4	MZ	Monzonite to diorite; mottled grey and pink-grey; non-phyric; mm-scale feldspar crystals all show preferential alteration to opaque, earthy white clay; moderate pervasive K-alteration increasing with depth; all original textures are well preserved; biotite and magnetite create speckling. Trace to 1% pyrite as blebs and clusters and also on fractures - very, very rarely with minor chalcopyrite; some pyrite appears to replace biotite. Transitional into:
24.4	30.5	BX	Salmon-pink, strongly K-altered monzonitic breccia, as 4.6 - 24.4 m, but pink; plagioclase crystals are less clay-altered but remain white and unaffected by K-alteration; very strongly magnetitic, with disseminated crystals (>5%) throughout and as veinlets and concentrations associated with quartz; rare epidote. Trace disseminated pyrite, associated with magnetite and in similar occurrences to biotite. Transitional into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR45-1	0.311	0.017	0.47	3.98	2		4	tr	tr
6.1	13.7	IR45-2	0.053	0.002	0.06	3.28					
13.7	21.3	IR45-3	0.081	0.004	0.11	3.18					
21.3	29.0	IR45-4	0.075	0.005	0.17	3.83	4		4	tr	tr
29.0	36.6	IR45-5	0.081	0.004	0.14	4.46	2		4	tr	1
36.6	44.2	IR45-6	0.106	0.008	0.20	3.85	2		4	tr	1

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
24.4	44.2	BX	Mottled grey and salmon-pink and light green, magnetitic, monzonitic breccia; very strong K-alteration affects <30% of rock and weakly overprints original textures in those fragments; remaining rock is equigranular, grey monzonite with excellent textures and light, bright green altered intrusive with grainy, recrystallized appearance (chlorite + sericite +/- epidote = propylitic); strongly magnetic - as >5% disseminated crystals and some local saturation; magnetitic dust coats many surfaces; wet 21.3 - 29.0 m; most textures smeared by 36.6 m. <1% pyrite, often associated with magnetite and occurring in similar fashion as biotite; rare chalcopyrite with pyrite; pyrite also in fractures and stringers.												

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Drillhole Report

IR00-46

Zone	C Pit - North	**Easting**	2163.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3548.9	**Logged By**	V. Park
		Elevation	1109.6	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	15.2	BX	Breccia; equigranular; mottled grey and light pink; 20-45% feldspar crystals selectively clay-altered to soft, white, opaque pseudomorphs; variable weak to moderate K-alteration - increasing downhole - very strong as mm- to cm-scale envelopes around fractures; occasional fracture envelopes with chloritization; occasional mm-scale clear and smoky quartz veinlets with chalcopyrite and magnetite crosscut unit randomly; several instances with radiating, acicular clear calcite crystals; silicified and textureless right at lower contact. Strongly magnetitic - disseminated and in fractures +/- quartz +/1 chalcopyrite; <5% rocks with massive magnetite +/1 chalcopyrite with quartz. <2% chalcopyrite in fractures, usually associated with magnetite +/1 pyrite and also commonly disseminated throughout and as sub-cm semi-massive clots; sulfide content appears to decrease to end of interval, but very strong sericitization and argillic alteration near lower contact tends to coat and obscure.
15.2	18.3	DYKE	Dyke; mottled grey to very weakly pink intrusive (similar to above) but with 10-25% fresh-looking black hornblende, pyroxene (augite?) and biotite, locally chloritized; weakly sericitized; very weak localized K-alteration; very strongly magnetitic; trace pyrite +/- chalcopyrite on fractures; seems to coarse-grained in groundmass to be dyke (initial thought was of another monzonite), but because there are so many phyric mafic minerals, I'm gonna call this augite porphyry.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR46-1	0.284	0.017	0.39	3.08
6.1	13.7	IR46-2	0.326	0.022	0.50	4.16
13.7	21.3	IR46-3	0.150	0.011	0.20	4.65
21.3	29.0	IR46-4	0.243	0.019	0.34	4.45
29.0	36.6	IR46-5	0.182	0.011	0.22	4.21
36.6	44.2	IR46-6	0.153	0.009	0.23	3.46

Alteration

K	A	M	cp	py
2		4	2	1
5		4	1	tr
3		4	tr	tr
3		4	tr	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
18.3	33.5	BX	Breccia; intensely pervasively K-altered, deep salmon-pink monzonite; original textures are recognizable but such strong K-alteration has given the rock a sub-homogeneous, pearly to glassy appearance; very rare black biotite; 10-20% sub-mm magnetite as speckles; <2% weakly K-altered, black, magnetic feldspar porphyry; <2% sub-cm clear quartz clots and calcite crystal clusters; K-alteration decreases downhole and lower 'contact' is arbitrarily assigned. <1% chalcopyrite, usually associated with magnetite, disseminated throughout and less commonly as concentrations in fractures. Transitional into:												
33.5	44.2	BX	Magnetitic breccia, as 18.3 - 33.5 m, but with significantly decreased K-alteration that affects 75% of rock; intense potassic alteration along fractures; strongly magnetitic; selective clay-alteration of modal feldspar is much stronger and widespread; intense *pervasive sericitization locally destroys monzonite* - usually in grey rock; minor epidote; rare chloritic surfaces; 2-3% sub-mm cloudy to faintly yellow quartz +/- calcite fragments (= void infillings, like sample on Greg G's bookshelf). <1% chalcopyrite clots and clusters, usually associated with magnetite; sulfide content increases *to end of hole.*												

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Drillhole Report

IR00-47

Zone	C Pit - North	**Easting**	2123.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3580.2	**Logged By**	V. Park
		Elevation	1110.2	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	9.1	BX	Breccia?; equigranular monzonite; overall grey with faint greenish hue and pink fractures; K-alteration is very strong but also affects >5% mass; green hue due to localized and selective alteration of mafic minerals to chlorite +/- epidote; weakly magnetitic - sub-cm cubes disseminated throughout; entire rock has a bleached appearance. <1%, but visually obvious, chalcopyrite on fractures, associated with quartz and magnetite - also disseminated clots. Transitional into:
9.1	13.7	DYKE	Augite porphyry dyke (or breccia?? - nah); mottled dark green/greenish grey, as IR00-46 15.2 - 18.3 m; equigranular rock is creamy feldspar-rich (recrystallized into sugary grains) groundmass with 15% mafic minerals - pyroxene > amphibole > biotite - locally weakly chloritized; biotite altered to sericite and chlorite; visually distinct from adjacent intervals; weakly magnetitic; trace disseminated chalcopyrite. Note: this rock more strongly resembles monzonite locally, but phyric mafic minerals suggest that this might be porphyritic dyke. Suddenly into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR47-1	0.338	0.016	0.63	4.17	2		1	tr	tr
6.1	13.7	IR47-2	0.113	0.006	0.13	4.62					
13.7	21.3	IR47-3	0.032	0.002	0.03	2.31					
21.3	29.0	IR47-4	0.021	0.001	0.02	2.18	5		1		
29.0	36.6	IR47-5	0.037	0.002	0.04	2.49	4		3		
36.6	44.2	IR47-6	0.054	0.002	0.10	2.66	4		4	tr	

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
13.7	44.2	BX	Breccia; strongly pervasively K-altered, equigranular monzonite with excellent igneous textures; very dark salmon-pink colour near upper contact fades slightly toward end of hole; weakly magnetic to 29.0 m, increasing strong toward end of interval where magnetite is disseminated; 1-2% greyish feldspar porphyry. Very, very rare chalcopyrite near end of hole. From 29.0 m: <5% of rock is unaltered; <5% intrusive with hornblende, etc., as 9.1 - 13.9 m - could be contamination from above - hole is very wet.													

Drillhole Report

IR00-48

Zone	C Pit - North	**Easting**	2087.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3514.9	**Logged By**	V. Park
		Elevation	1110.0	**Comments**	Wet 21.3 - 29.0 m; wet 36.6 - 44.2 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	9.1	BX	Breccia; fine-grained, equigranular monzonite with very strong to intense pervasive K-alteration; original textures are preserved but rock has a grainy recrystallized texture locally; 5-15% disseminated magnetite +/1 similarly occurring black, partially altered biotite; <10% of chips with weak or absent potassic alteration. Rare mm-scale chalcopyrite clots near end of interval.
9.1	15.2	FAULT	Fault (?) in intrusive (augite porphyry dyke or monzonite (?? - nah)); abundant clay in unwashed sample; remaining rock is medium green/green-grey, fine-grained, equigranular rock; entire rock has been intensely sericitized, creating an incompetent, distinctly grainy/sugary homogeneous rock through which original textures are discernible but very weak; macroscopically rock is a featureless dark/medium grey; toward lower contact is better preserved with increased mafic minerals - beginning to resemble IR00-46 15.2 - 19.8 m and IR00-47 9.1 - 13.7 m; no visible sulfides or oxides; variable magnetitic. Note: as this is such a different-looking rock could it be the augite porphyry dyke?; however, intensity of bleached-looking rock strongly suggests fault/shear.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR48-1	0.201	0.012	0.30	5.43
6.1	13.7	IR48-2	0.180	0.010	0.25	4.97
13.7	21.3	IR48-3	0.034	0.007	0.06	3.86
21.3	29.0	IR48-4	0.062	0.009	0.12	2.92
29.0	36.6	IR48-5	0.072	0.018	0.14	3.90
36.6	44.2	IR48-6	0.111	0.017	0.20	3.89

Alteration

K	A	M	cp	py
4		3		tr
5		2		
5		3		tr
5		3	tr	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
15.2	44.2	BX	Dark salmon-pink monzonitic intrusive breccia as 0.0 - 9.1 m; very strong pervasive K-alteration increases to end of hole; increasing quantities (5-10%) of sucrosic greenish grey pyroxenitic intrusive as 9.1 - 15.2 m; biotite is more common and better preserved near end of hole; moderately to strongly magnetitic throughout; very little variation through interval. Very, very rare disseminated chalcopyrite - sub-mm clots; pyrite coats occasional fractures. Note: 21.3 - 29.0 m and 36.6 - 44.2 m were wet with the in-between sample dry - were these samples mixed up at the drill? - if so, there might be a dyke centered at 36.6 m.													

Drillhole Report

IR00-49

Zone	C Pit - North	**Easting**	2075.2	**Drilled By**	IR Rig 4
Length (m)	36.6	**Northing**	3444.1	**Logged By**	V. Park
		Elevation	1110.0	**Comments**	Nominal coordinates used for collar survey; wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	18.3	BX	Breccia; fine-grained, equigranular monzonitic breccia with intense pervasive K-alteration that creates dark salmon-pink colouration; <20% rock with weak or absent K-alteration; good textures; very strongly sericitized, especially toward lower contact; yellowish sericite dustings are visible on all surfaces - increasing dramatically to lower contact; minor manganese oxide on fracture; minor oxidation and stronger sericitization on fractures. Minor but ubiquitous bright green mineral on fractures = malachite, but also strongly resembles roscolite (vanadium mica); rare chalcopyrite and very rare pyrite on fractures and disseminated - usually associated with magnetite. 0.0 - 20.0 m: contains sericite and clay - fault?; also with magnetite/hematite micro-slickensides. Sharp lower contact; wet from 13.7 m.
18.3	21.3	DYKE	Dark grey augite porphyry dyke; groundmass ranges from aphanitic to fine-grained, like adjacent monzonite, when away from chill margins; weak localized chloritization; strongly magnetitic; variable sericitization; no Cu minerals.
21.3	33.5	BX	Dark salmon-pink, intensely K-altered monzonitic breccia as 0.0 -18.3 m; good textures; strongly magnetitic - in similar occurrences as biotite and in fractures; sugary texture where sericitized. <1% chalcopyrite, rarely seen but increasing to end of interval; intergrown or associated with disseminated magnetite clots.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR49-1	0.430	0.267	0.74	4.41	5		3	tr	tr
6.1	13.7	IR49-2	-2.000	-2.000	-2.00	-2.00					
13.7	21.3	IR49-3	0.256	0.144	0.53	5.09					
21.3	29.0	IR49-4	0.226	0.131	0.56	4.96	5		3	tr	
29.0	36.6	IR49-5	0.264	0.044	0.56	5.27	4		4	1	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
33.5	36.6	BX	Breccia; monzonitic host rock, lacking K-alteration is pervaded with abundant magnetite and silica; resembles monzonite. <2-3% chalcopyrite, usually associated with magnetite and in silicified portions; looks yummy; minor disseminated pyrite.												

Drillhole Report

IR00-50

Zone	C Pit - North	**Easting**	2069.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3470.0	**Logged By**	V. Park
		Elevation	1110.1	**Comments**	Nominal coordinates used for collar survey; all wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	DYKE	Dark grey/greenish grey dyke; less porphyritic than in nearby holes, but augite crystals , often chloritized, are seen; sucrosic fine-grained equigranular groundmass that has undergone intense sericitization and argillic alteration locally; variable magnetitic; strong alterations suggest possible hydrothermal alteration zone, as near a fault; not mineralized.
4.6	13.7	BX	Monzonitic breccia; dark salmon-pink due to intense pervasive K-alteration, decreasing to end of hole; good textures; weakly to moderately magnetitic; sericitization throughout - locally strong, creating sucrosic texture and as yellowish dusting on most surfaces. <1% chalcopyrite - ubiquitous but not abundant - most commonly seen intergrown with magnetite in interstitial clots/concentrations; trace pyrite on fractures and in similar occurrences as chalcopyrite.
41.1	44.2	DYKE	Dark grey/greenish grey, fine-grained, sucrosic dyke, as 0.0 - 4.6 m; non-phyric; weakly magnetitic locally; not mineralized.
13.7	36.6	FAULT	Fault?; otherwise, breccia as 4.6 - 13.7 m and 36.6 - 41.1 m. 13.7 - 21.3 m: washed sample is dominantly pink monzonite breccia, bust unwashed sample contains significant quantities of dark grey clay - localized fault? 29.0 - 36.6 m: poor recovery of coarse fraction - could be due to the extremely wet hole or possibly a softer rock = fault?; very wet.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR50-1	0.196	0.074	0.32	3.77	2		1	tr	
6.1	13.7	IR50-2	0.285	0.067	0.48	4.26					
13.7	21.3	IR50-3	0.447	0.054	0.61	4.29					
21.3	29.0	IR50-4	0.304	0.069	0.50	4.04	4		2	tr	
29.0	36.6	IR50-5	0.215	0.043	0.36	3.47	4		2	tr	
36.6	44.2	IR50-6	0.226	0.042	0.35	3.80	4		3	tr	

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
36.6	41.1	BX	Breccia, as 4.6 - 13.7 m and with 13.7 - 36.6 m; increased chalcopyrite and malachite on fractures; (note: green mineral also resembles roscolite locally).												

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Drillhole Report

IR00-51

Zone	C Pit - North	**Easting**	2078.1			**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3421.7			**Logged By**	V. Park
		Elevation	1110.0			**Comments**	Nominal coordinates used for collar survey; wet from 21.3 m
		Depth	**Az**	**Dip**	**Survey Type**		
		0.0	0	-90	Head Set		

Lithology

From	To	LITH	Description
0.0	7.6	DYKE	Dark grey/green-grey dyke, as IR00-50 0.0 - 4.6 m; soft, grainy altered rock - likely due to proximity to major fault; non-phyric until 6.1 m, where textures improve significantly and fresh augite crystals are well preserved and evident; variable chloritization decreases to end of interval; weak K-alteration in matrix until 6.1 m; no mineralized; one quartz veinlet fragment <3/4cm.
7.6	33.5	BX	Dark salmon-pink, intensely pervasively K-altered monzonitic breccia; strongly sericitized to 21.3 m, decreasing after textures improve; very little variability throughout; weakly increasing to moderately magnetitic - disseminated; most intense K-alteration right at lower contact. Trace chalcopyrite with magnetite from 29.0 m; wet from 21.3 m.
33.5	42.7	DYKE	Dyke, as 0.0 - 7.6 m; medium green to green-grey; sucrosic, recrystallized texture due to intense sericitization +/1 chloritization - rock is incompetent-looking; dominantly non-phyric with rare augite crystals; <5% strongly porphyritic dyke with fresh phenocrysts; chloritization increases to end of interval; mostly non-magnetitic; not mineralized; some fragments with foliation (gneissic).
42.7	44.2	BX	Intensely K-altered, salmon-pink monzonite breccia, as 7.6 - 33.5 m; moderately magnetitic. <1% disseminated chalcopyrite associated with magnetite and quartz microveinlets; one quartz fragment <1cm.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR51-1	0.092	0.013	0.17	4.32	1		1		
6.1	13.7	IR51-2	0.115	0.053	0.23	3.86					
13.7	21.3	IR51-3	0.182	0.116	0.40	4.39					
21.3	29.0	IR51-4	0.149	0.089	0.31	4.43	5		2		
29.0	36.6	IR51-5	0.331	0.260	0.57	5.04	5		3	tr	
36.6	44.2	IR51-6	0.222	0.091	0.43	4.79	2		2	tr	

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Drillhole Report

IR00-52

Zone	C Pit - North	**Easting**	2196.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3485.3	**Logged By**	V. Park
		Elevation	1109.6	**Comments**	All wet

Lithology

From	To	LITH	Description
0.0	12.2	BX	Monzonite breccia; very fine-grained; equigranular; fine black biotite, variably altered; dominantly pink with grey mottling and black specks; <20% greenish rock; wet from surface. Pervasive K-alteration - from very weak to intense (orange-salmon pink), especially along fractures - decrease to end of interval; minor sericite; rare epidotic fractures. Strongly magnetitic - crystals disseminated and also lining fractures - often intergrown with chalcopyrite. <2% chalcopyrite, usually on fractures, but also disseminated throughout - invariably associated with magnetite; trace pyrite in fractures; sub-mm quartz veinlets (rare) associated with chalcopyrite in fractures; sulfide content increases to end of interval. Grades into; Note: there were two samples for 0 - 6.1 m - the second one is labeled IR53-7 and the results should be similar to those for IR53-1.
12.2	21.3	BX	Breccia or possible fault; slightly more coarse-grained than monzonite above; very slight increase in modal quartz, as eyes; excellent textures; grey to pink-grey. Pervasive but weak K-alteration - most rocks are affected at least moderately; intense sericitization - white to yellow to grey sericite and sericitic powder on all surfaces, occasionally obscuring original textures; opaque, occasionally grainy; strongly bleached and dusty-looking; minor but ubiquitous epidotization - often in more biotitic sections. <1% chalcopyrite, usually associated with hairline quartz veinlets in fractures or magnetite; less commonly disseminated; trace pyrite; strongly magnetitic, but magnetite crystals are smaller and less obvious than those above.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR52-1	0.228	0.016	0.25	4.15	4		4	tr	tr
6.1	13.7	IR52-2	0.226	0.011	0.22	3.73	2		4	1	tr
13.7	21.3	IR52-3	0.123	0.004	0.14	3.43	2		4	1	tr
21.3	29.0	IR52-4	0.487	0.013	0.60	4.18	4		4	5	tr
29.0	36.6	IR52-5	0.096	0.009	0.08	4.68	3		4	1	tr
36.6	44.2	IR52-6	0.164	0.019	0.26	4.21	3		4	1	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.3	27.4	BX	Pink to dark salmon-pink monzonitic breccia; good textures; increased modal quartz, as 12.2 - 21.3 m. Pervasive K-alteration is locally intense; ubiquitous moderate sericitization; secondary quartz as mm0scale clear to milky veinlets and as hairline sulfidic stringers. <5% chalcopyrite as sub-mm to mm-scale clots disseminated throughout, and also and in quartz stringers - often associated with magnetite; trace pyrite; strongly magnetitic but fine-grained magnetite is more subtle than uphole. Yummy!												
27.4	32.0	DYKE	Dark grey to dark green-grey dyke; groundmass ranges from coarse (1-2mm, as monzonite in 12.2 - 21.3 m) to aphanitic (chill margin?); strongly porphyritic - black to variably chloritized augite +/- biotite phenocrysts are densely packed; augite also altered to dark red-orange patina on several crystal surfaces; strongly magnetitic; increased epidote and chlorite to end of hole; not mineralized.												
32.0	44.2	BX	Orange-pink, medium to coarse-grained monzonite, as 12.2 - 21.3 m; excellent textures; <5% dyke rock might be contamination. Intense K-alteration decreases to end of hole; sericitization increases to end of hole; weak localized silicification with minor sub-mm veining; rare localized propylitic alteration; from 32.0 m: selective argillic alteration of plagioclase feldspars in a intensely potassically altered groundmass. <1% chalcopyrite, as fine disseminations decreasing to end of hole; very, very rare pyrite; strongly magnetitic - magnetite crystals are again larger (<1mm) and more obvious and are occasionally associated with chalcopyrite. Nice-looking interval, but not as great as 21.3 - 27.4 m												

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Drillhole Report

IR00-53

Zone	C Pit - North	**Easting**	2196.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3460.2	**Logged By**	V. Park
		Elevation	1109.5	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.7	BX	breccia; coarser-grained (1-2mm) monzonite; excellent textures; more modal quartz than is typically seen in monzonite; biotite is not common, but sub-cm clusters of sub-mm black biotite are seen; mottled pink, pink-grey and grey - wide variability in colour; <5% brown-grey feldspar porphyry; plagioclase content increases - rock tend toward a diorite. K-alteration throughout, but <25% of rock is strongly to intensely altered, especially proximal to fractures; epidotic fractures and increased chloritization of biotitic clots to end of interval. Silicification as dominant alteration; all rock has a silica-flooded appearance (glassy luster and increased translucence) and a very strong clear to milky, often sulfidic mm-scale, multiphase stockwork - intensifying to lower contact; <5% quartz-magnetite chips. <5% chalcopyrite as mm-scale, sub-cm disseminated clots and sub-mm disseminated crystals and also within fractures; chalcopyrite is always associated with magnetite +/or quartz; trace pyrite on fractures; strongly magnetitic, with massive qz-mt veinlets (fragments to 1 cm) and fine disseminated crystals throughout. Lower contact assigned where mineralization decreases - not sharply defined.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR53-1	0.287	0.009	0.25	5.76	3		4	5	tr
6.1	13.7	IR53-2	0.243	0.009	0.19	5.28	2		5	5	tr
13.7	21.3	IR53-3	0.291	0.009	0.26	4.73	3		4	tr	tr
21.3	29.0	IR53-4	0.258	0.005	0.31	3.33	4		3	1	tr
29.0	36.6	IR53-5	0.391	0.012	0.60	4.70	3		4	1	tr
36.6	44.2	IR53-6	0.101	0.005	0.11	4.92	2		4	tr	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
13.7	41.1	BX	Pink and mottled pink-grey monzonite; finer-grained and less dioritic than above; good original textures; still slightly elevated in modal quartz; rare feldspar porphyry fragments. K-alteration dominates - strong but decreasing to lower contact; weak but increasing sericitization of feldspar-rich groundmass; some plagioclase weakly argillically altered and un- or less affected buy potassic alteration; weakly silicified with sub-mm quartz veinlets, especially near upper contact; biotite altered to chlorite; occasional epidotic fractures and patches; bleached and dusty-looking locally, especially near contacts. Up to 1% chalcopyrite - higher concentrations locally; chalcopyrite, usually in fractures, but also as fine disseminated crystals associated with magnetite; mm-scale clots and hairline stringers are also present; trace pyrite; abundant disseminated magnetite - very, very fine - also concentrated in secondary quartz. Nice-looking interval, but not as yummy as 0.0 - 13.7 m.												
41.1	44.2	DYKE	Dark grey to weakly green-grey; aphanitic groundmass with densely packed, weakly chloritized (locally stronger) augite crystals to 5 mm; chloritic +/or hematitic fractures; strong hematite on fractures plus ultra fine hematite speckling through groundmass, after magnetite; very strongly magnetitic - most magnetite is too small to see; many biotite and augite crystal surfaces are altered to brick red hematite; not mineralized.												

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Drillhole Report

IR00-54

Zone	C Pit - North	**Easting**	2204.9	**Drilled By**	IR Rig 4
Length (m)	35.5	**Northing**	3438.4	**Logged By**	V. Park
		Elevation	1109.6	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	30.5	BX	Monzonite breccia; dominantly light grey with minor pink mottling; excellent igneous textures usually; equigranular; slight increase in quartz content with clear and cloudy quartz eyes 2-3mm; biotite altered to chlorite and sericite - rarely preserved as good black crystals; biotite also appears replaced by magnetite and pyrite; all wet. <15% rock with very strong to intense K-alteration that smoothes textures locally and creates dark salmon-pink colour; remaining rock is variably potassically altered - very weak to unaffected. sericitization throughout, usually after biotite, but also after modal feldspar; minor chlorite and epidote - very localized; weak silicification throughout with associated stockwork - stronger locally; localized selective alteration of plagioclase crystals to earthy clay that stands out in strong contrast to pink groundmass. Trace to 2% chalcopyrite - usually on fractures or intergrown with disseminated magnetite; trace to 1% pyrite in similar occurrences. Strongly magnetitic - fine disseminated crystals interstitially or in similar occurrences to former biotite, as encrustations on fractures and associated with secondary quartz; often with chalcopyrite and pyrite. 0.0 - 6.1 m: large angular fragments; occasional fragments completely epidotized. 6.1 - 13.7 m: increased silicification; rock have faintly glassy look; < 2% augite porphyry dyke fragments. 13.7 - 21.3 m: significantly increased chalcopyrite + pyrite + magnetite; sub-mm clear and ,milky quartz veinlets with sulfides along selvages; increased pervasive silicification; grain size increases;

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR54-1	0.185	0.005	0.19	4.73	2		2	tr	tr
6.1	13.7	IR54-2	0.278	0.007	0.29	5.09	4		4	tr	tr
13.7	21.3	IR54-3	0.174	0.008	0.19	5.61	2		4	2	1
21.3	29.0	IR54-4	0.189	0.007	0.20	4.09	2		4	tr	tr
29.0	33.5	IR54-5	0.165	0.006	0.18	4.13	3		4	tr	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			chloritization of biotite is slightly enhanced. 21.3 - 30.5 m: increased sericite +/- clay; dusty-looking; faint trachytic texture in grey monzonite locally; increased epidote and chlorite - as mm-scale alteration envelopes on fractures.												
30.5	33.5	BX	Monzonitic breccia, as above, but with strong to intense pervasive K-alteration; textures discernible but blurred; black speckling due to disseminated magnetite; biotite/chlorite specks also; some plagioclase crystals are weakly clay altered; chlorite and epidote on fractures are common; weakly silicified - rare veinlets and quartz clasts to 1cm. Up to 1% chalcopyrite is usually seen on fractures and not as closely associated with magnetite; cp also as fine disseminations and sub-mm stringers.												

Drillhole Report

IR00-55

Zone	C Pit - North	**Easting**	2217.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3422.0	**Logged By**	V. Park
		Elevation	1109.5	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Monzonite breccia; dominantly salmon-pink with <25% grey; excellent equigranular textures except where potassic alteration is strongest; biotite altered to sericite +/- chlorite - remnants are usually seen; fresh black biotite on less K-altered chips; very fine-grained feldspathic/monzonitic veinlets < 2mm; some mafics altered to chlorite. Strongly magnetitic - very, very fine disseminated crystals and concentrations on fractures. Trace chalcopyrite, usually on fractures but also as interstitial clots; trace pyrite. Transitional into:
4.6	22.9	BX	Monzonite breccia; mottled pink and grey; slightly coarser-grained with rare, weakly phyric feldspar; all crystals are round; biotite and biotite remnants are very common; wet from 13.7 m. K-alteration dominates - most rock weakly to moderately affected, with <5% with intense salmon-pink hue; most biotite altered to chlorite +/- sericite; sericitic fractures. Trace pyrite > chalcopyrite, as patina and clots on fractures; disseminated magnetite.
22.9	29.0	DYKE	Dark green-grey dyke; very fine-grained to coarser-grained, sugary, chloritic groundmass with weakly chloritic augite phenocrysts; texturally like monzonite locally; minor crystalline epidote; strongly magnetitic; minor pyrite on fractures; clayey near lower contact = shear?

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR55-1	0.119	0.005	0.13	4.45	3		3	tr	tr
6.1	13.7	IR55-2	0.063	0.004	0.06	3.83	2		3	tr	tr
13.7	21.3	IR55-3	0.071	0.002	0.09	3.86	2		3	tr	tr
21.3	29.0	IR55-4	0.057	0.002	0.05	4.36	1		3	tr	tr
29.0	36.6	IR55-5	0.114	0.004	0.15	3.80	3		3	tr	tr
36.6	44.2	IR55-6	0.194	0.010	0.17	3.64	3		4	tr	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.0	44.2	BX	Monzonitic breccia, as 4.6 - 22.9 m; original textures blurred but easily discerned; biotite remains as rare shreds and pseudomorphs. Intense salmon-pink alteration dominates with <15% rock grey and unaffected; minor sericite; ubiquitous spotty chlorite; un-potassically altered rocks are more propylitic. <1% chalcopyrite n fractures and intergrown with magnetite elsewhere; very rare pyrite.												

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Drillhole Report

IR00-56

Zone	C Pit - North	**Easting**	2218.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3398.7	**Logged By**	V. Park
		Elevation	1109.0	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	29.0	BX	Breccia?; monzonite, as IR00-55 29.0 - 44.2 m; equigranular; densely-packed rounded crystals; mottled grey and pink; excellent textures usually. K-alteration - weak to moderate throughout but intense in 20-25% of rock; chlorite and epidote after modal biotite - ubiquitous but not overwhelming; weak sericitization. Trace chalcopyrite on rare fractures and less commonly disseminated; strongly magnetitic - fine disseminated crystals.
29.0	44.2	BX	Barely breccia, as above; decreased magnetite; significantly increased sericitization; increased propylitic alteration > potassic; large angular chips - larger than elsewhere; trace pyrite and very rare chalcopyrite.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	IR56-1	0.095	0.008	0.13	3.68
6.1	13.7	IR56-2	0.083	0.009	0.09	4.22
13.7	21.3	IR56-3	0.076	0.006	0.09	4.48
21.3	29.0	IR56-4	0.069	0.006	0.09	4.79
29.0	36.6	IR56-5	0.066	0.005	0.06	4.19
36.6	44.2	IR56-6	0.063	0.005	0.08	4.63

Alteration

K	A	M	cp	py
3		3	tr	tr
2		3		tr
2		3	tr	tr
3		3		tr
2		2	tr	tr
2		2		tr

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Drillhole Report

IR00-57

Zone	C Pit - North	**Easting**	2182.0	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3515.9	**Logged By**	V. Park
		Elevation	1109.6	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Monzonite breccia; equigranular textures; dominantly cream-grey with pink and lesser green and black mottling; coarse-grained (1-2mm); increased modal quartz; similar to monzonite-diorite in IR00-52 and -53. Weak to moderate pervasive K-alteration in <20% rocks - very weak elsewhere; modal biotite altered to chlorite +/- epidote +/- pyrite; stronger propylitic alteration on a few fractures; ubiquitous sericitization - weak to moderate throughout, but locally intense, totally destroying groundmass - especially near lower contact; distinct selective argillic alteration of many plagioclase crystals; strongly silicified (with sulfides) locally - some veinlets. >7% chalcopyrite as interconnected, interstitial clots and stringers; also within several fractures, usually associated with sub-mm quartz; pyrite throughout (cp sometimes looks like py); strongly magnetitic - disseminated. Yum.
4.6	7.6	DYKE	Greyish dyke; groundmass is intensely sericitized and incompetent and grainy-looking; densely packed, chloritized +/or oxidized augite crystals remain as competent mineral; magnetitic groundmass is dotted with sub-mm hematite specks; resembles IR00-52 27.4 - 32.0 m and IR00-53 41.1 - 44.2 m, except that it is much more intensely altered (due to North Boundary Fault?); not mineralized.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	IR57-1	0.486	0.013	0.60	4.02	2		4	7	1
6.1	13.7	IR57-2	0.167	0.006	0.26	4.35	4		4	1	
13.7	21.3	IR57-3	0.382	0.016	0.46	3.53	3		3	tr	tr
21.3	29.0	IR57-4	0.249	0.010	0.32	4.78	3		3	tr	tr
29.0	36.6	IR57-5	0.140	0.006	0.19	4.05	4		3	tr	r
36.6	44.2	IR57-6	0.531	0.013	0.80	3.41	3		3	1	tr

Lithology				Assay Results						Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
7.6	16.8	BX	Monzonite breccia; dark pink to salmon-pink; excellent textures, but not as strong as 0.0 - 4.6 m. Very strong pervasive K-alteration affects most minerals equally - decreases to end of interval; weak sericitization increases to abundant. <1% chalcopyrite, usually in fractures but also disseminated and as stringers - more abundant near upper contact in the most strongly potassically altered rocks; rare pyrite; significant magnetite - disseminated and as encrustations on fracture surfaces.												
16.8	25.0	BX	Breccia, as 7.6 - 16.8 m, but with significantly reduced K-alteration and increased sericitization; strong bleached and dusty-looking appearance (along with lot of clay) suggest a fault; trace pyrite and chalcopyrite; strongly magnetitic, as above.												
25.0	44.2	BX	Monzonite breccia; dark pink to lighter pink and cream to end of hole; dominantly equigranular, but weakly phyric locally; excellent textures - slightly more coarse than 7.6 - 16.8 m; increased black biotite content. K-alteration dominates - decreased down; sericitization increases down; selective argillic alteration of many plagioclase crystals. Up to 1% chalcopyrite as disseminated clots and on fractures - increasing with depth; trace disseminated pyrite; abundant fine disseminated magnetite throughout.												

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Drillhole Report

IR00-58

Zone	MP-072	**Easting**	2168.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	4832.3	**Logged By**	V. Park
		Elevation	1161.0	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	3.0	MZ	Monzonite or monzonite breccia; dark orange to pink-orange; homogeneous-looking; equigranular; feldspar-rich; original crystal shape is discernible locally - generally very little textural variability; excellent pearly luster where chip surfaces are not coated with mud; large angular chips with clay/sericite siltskins are indicative of overburden and weathered bedrock; wet to 6.1m. Intense pervasive K-alteration accompanied by limonitic staining contribute to strong colouration. Very weakly magnetic locally. Sulfides are not visible but mm-scale splotches of malachite are seen on several fractures planes.
3.0	9.1	AP	Augite porphyry dyke; grungy dark green/grey-green, sugary-looking, very fine-grained groundmass with 5-10% black to dark green augite crystals <2mm; intensely sericitized; strongly magnetitic; occasional rusty fractures; not mineralized.
9.1	25.9	MZ	Monzonite or monzonite breccia; dark orange to salmon-pink/orange; equigranular feldspar-rich intrusive as 0.0 - 3.0 m; excellent textures preserved; variably altered biotite throughout; rare quartz eyes, 1-2mm; picks up distinctive pyroxene needles from 21.3 m; wet from 13.7 m. Intense pervasive K-alteration; ubiquitous sericitization; abundant powdery clay/sericite coats many surfaces; entire rock has a fairly grungy look. Very, very weakly magnetitic. No visible sulfides. (Blech.)
25.9	27.1	AP	Augite porphyry monzonite/diorite dyke; coarser-grained than typical AP; greenish, sugary groundmass with phyric augite crystals; as 3.0 - 9.1 m, except with an overall increased grain size; magnetitic; not mineralized.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	580001	0.497	0.339	0.56	7.83
6.1	13.7	580002	0.124	0.038	0.06	3.52
13.7	21.3	580003	0.106	0.039	0.03	4.23
21.3	29.0	580004	0.044	0.014	0.01	2.65
29.0	36.6	580005	0.008	0.002	0.01	2.92
36.6	44.2	580006	0.074	0.008	0.01	2.88

Alteration

From	To	K	A	M	cp	py
0.0	6.1	4		1	mal	
6.1	13.7	3		2		
13.7	21.3	4		1		
21.3	29.0	5		2		
29.0	36.6	5		1	tr	tr
36.6	44.2	5		1	1	tr

Lithology

From	To	LITH	Description
27.1	35.1	DR	Diorite or monzodiorite - probable breccia - barely; dark brown-orange. very fine-grained equigranular intrusive; dark brown to maroon in hand sample; finer-grained than monzonite - without microscope I might have been inclined to call it a volcanic; altered (limonite, sericite) biotite as irregular clusters; excellent textures. Intense pervasive K-alteration affects most minerals evenly; ubiquitous sericitization - more common on fractures; occasional limonitic surfaces; slightly more common hematitic fractures. Minor disseminated magnetite with euhedral crystals <1/2mm that are often coated with shimmery hematite (that looked interesting until I identified it); magnetite in more commonly concentrated on fractures. Trace disseminated pyrite +/1 chalcopyrite intergrown with disseminated and fracture-controlled magnetite. Transitional into:
35.1	44.2	DR	Dark orange-brown diorite, as 27.1 - 35.1 m, but with strong quartz and quartz-calcite veinlets; general description as above. Intense pervasive K-alteration; chloritic fractures; localized silicification - mineralized chips have sub-vitreous luster; patchy sericitization - especially on fractures. Strong quartz stockwork; randomly oriented veinlets; milky quartz veinlet fragments <1/2cm; clear and cloudy quartz veinlets <1mm; multiphase quartz veinlets <1/2cm with chloritic selvages and selvage-like inclusions; hairline quartz tension gash-like stringers; numerous, barely visible clear quartz veinlets <<1/2mm and <5% chips infused with sulfide-bearing clear quartz. Sample doesn't register as strongly magnetic, but several fractures and irregular stringers host magnetite and hematite. >1% chalcopyrite throughout - as rare disseminated crystals, but more commonly as very localized concentrations hosted with silica-infused rock - quite distinguishable!! (Best-looking interval in this hole.)

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %

Alteration

K	A	M	cp	py

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Drillhole Report

IR00-59

Zone	MP-072	**Easting**	2173.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	4817.9	**Logged By**	V. Park
		Elevation	1159.3	**Comments**	Twin of MP-071; wet 0.0 - 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	3.0	MZ	Dark orange, orange-pink, medium-grained (mm-scale crystals) feldspar-rich equigranular monzonite; possible breccia, but difficult to tell from homolithic samples; excellent textures are well preserved; locally weakly feldspar phyric, with variably altered (sericite +/- clay) plagioclase phenocrysts <2mm (opaque, white to rusty, pearly to earthy) that often provide strong contrast to deep colouration of groundmass; remnant black biotite altered to chlorite +/- sericite; rare quartz eyes <1mm. Angular, relatively large chips with strong siltskins are indicative of overburden or weathered bedrock; earthy limonite in fractures, often with manganese oxide - limonite staining contributes to deep orange-pink hue. Weakly magnetitic - sub-mm disseminations, concentrated locally. Very strong to intense pervasive K-alteration affects groundmass, mostly with variable alteration of plagioclase; moderate to very strong sericitization as 'siltskins' on some fractures, but generally as a dusting and alteration product of many minerals - locally intense, creating grainy, incompetent rock; clay after plagioclase is other dominant alteration. Green malachite as mm-scale specks on many surfaces is ubiquitous but comprises <1% - occasionally this mineral appears to replace feldspar, and is strongly similar to the Va-mica roscolite; <1% chalcopyrite, as mm-scale and sub-mm disseminated to stringy clots - usually with oxidized rims or surface tarnish, and commonly associated with magnetite - quantity might be under-estimated; trace pyrite, as chalcopyrite, throughout.
3.0	6.1	MZ	Monzonite/monzodiorite; possible breccia; light green-grey; dominant green hue due to chloritization off biotite (>25% of rock mass locally); fine-grained equigranular - original textures are blurred but discernible; calcitic fractures and blobs; very slight increase in modal quartz as is usual; overall dusty and bleached-looking - could be contact effect. Propylitic alteration dominant, with abundant chlorite and patchy epidote and very strong (to intense) sericitization throughout; patchy and selective K-alteration; some limonitic fractures. Very strongly magnetic - up to 20% magnetite, disseminated and concentrated (in groundmass and in fractures). <1% chalcopyrite and pyrite, disseminated and in fractures, associated with magnetite - difficult to see.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	590001	0.301	0.115	0.43	5.80
6.1	13.7	590002	0.296	0.105	0.34	6.45
13.7	21.3	590003	0.242	0.079	0.38	4.53
21.3	29.0	590004	0.100	0.021	0.09	2.91
29.0	36.6	590005	0.021	0.008	0.02	2.43
36.6	44.2	590006	0.027	0.008	0.03	2.86

Alteration

From	To	K	A	M	cp	py
0.0	6.1	4		2	mal	tr
6.1	13.7	1		3	1	1
13.7	21.3	5		1	tr, mal	tr
21.3	29.0	5		1	tr, mal	tr
29.0	36.6	2		1		
36.6	44.2	3		1		

Lithology

From	To	LITH	Description
6.1	12.2	AP	Augite porphyry monzonite; marginally transformational from above; medium dark green-grey with distinct orange under/overhue; equigranular feldspar-rich matrix; fine to medium-grained , as above with 5-15% mm-scale black/black-green augite crystals; augite is porphyritic locally; good preservation of textures, blurred by alterations. Chlorite and sericite alteration are dominant; pale pink hematite splotches after magnetite, are very common; minor patchy epidote; rare K-alteration; matrix altered to sugary/dusty sericite and depression (interstitial cavities) filled with sericitic debris; thicker limonite-stained sericite on fractures; really cruddy-looking rock. Strongly magnetitic, with sub-mm magnetite disseminated and concentrated throughout - occasionally altered to hematite; many chips are saturated with magnetite. Very fine chalcopyrite and pyrite throughout, usually fresh and always associated with magnetite - difficult to estimate quantity - some chips appear saturated; a few copper-coloured, metallic flecks <1/4mm; sulfides are more abundant on fracture planes. Note: intense sericitization, where rock is almost destroyed - might be due to fault/shear.
12.2	29.0	MZ	Monzonite or monzonite breccia; very deep salmon-pink to orange; equigranular; original textures are discernible but grain boundaries are blurred; homogeneous appearance throughout. Intense pervasive K-alteration affects all minerals; abundant and strong sericite and clay and minor limonitic surfaces to 21.3 m - is upper contact faulted or sheared?; slickensides on one intensely clay-altered chip at 21.3 m; 5-10 black to wispy white, occasionally chloritized biotite. Weakly magnetitic - disseminated and on occasional fractures. Very, very rare chalcopyrite and pyrite associated with magnetite; trace malachite on rare fractures. Note: intense potassic alteration suggests that this interval should be better mineralized...but blech...wait for results. Fairly sharp lower contact.
29.0	44.2	MZ	Intrusive; medium green-grey into pink grey to increasingly pink; different than above monzonite; relatively unaltered rock with feldspar-rich, equigranular composition; feldspar crystals are easily discerned; most noticeable feature is the presence of <10% (locally higher) sub-mm to 2 mm (rare) black augite laths and needles, randomly oriented; amphiboles are also present in significantly decreased quantities, compared to the pyroxenes; as K-alteration increases downhole, pyroxene crystals are increasing chloritized and are less visually obvious, although still very abundant. Weak pervasive K-alteration increase to moderate; minor sericitization decreases to end of hole; very rare limonitic fractures. Very weakly magnetic - <1% disseminated, sub-mm magnetite crystals; one fracture shows oxidized magnetite cubes <1/2mm; trace hematitic staining. NO visible sulfides. (Dead-looking interval!)

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %

Alteration

K	A	M	cp	py

Drillhole Report

IR00-60

Zone	MP-072	**Easting**	2190.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	4831.6	**Logged By**	V. Park
		Elevation	1154.3	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	35.1	MZ	Monzonite or monzonite breccia; very dark salmon-pink to orange; equigranular feldspar-rich rock with very well-preserved igneous textures; locally weakly plagioclase-phyric with white feldspar laths standing out in contrast to matrix (PPp); 5-10% variably altered (sericite and/or chlorite) biotite throughout. Intense pervasive K-alteration decreases slightly to end of hole; moderate sericitization, becoming very strong after 21.3 m; minor patchy chlorite, after biotite and on a few fractures. Variable mineralization, as described below. All wet. 0.0 - 6.1 m: stronger orange hue due to pervasive limonitic staining; splotchy manganese oxide on some fractures; many sericitic surfaces typical in near-surface rocks; weakly magnetitic - disseminated sub-mm crystals; minor diopside; <1% chalcopyrite, very subtle as disseminated cubes <1/2mm; malachite on rare fractures. 6.1 - 19.8 m: decreased pervasive limonitic staining; limonitic fractures are still common; sericitic fractures appear; very slight increase in magnetite as it clusters locally; slight increase in PPp fragments (matrix in breccia) (<5-10%); rare slickensided surfaces; trace disseminated chalcopyrite - very difficult to see; Cu-oxides are absent; abundant clay in unwashed sample probably indicates a fault (?). 19.8 - 35.1 m: very strong sericitization; all surfaces coated with sericite/clay and rock has a distinctly bleached look - possibly due to proximity to AP dyke/fault below; very, very rare chalcopyrite, especially from 21.3 m; most biotite is completely altered; homogeneous boring-looking rock.
35.1	38.1	AP	Augite porphyry dyke; medium green; very fine-grained groundmass with varying quantities of black to dark green augite crystals <1mm; strongly magnetitic; variably sericitized; chloritization as dominant alteration; not mineralized; rare chips suggest shearing at contacts - post-emplacement movement?
38.1	44.2	MZ	Monzonite; dark salmon-pink, equigranular intrusive as 0.0 - 35.1 m, with <5% pink plagioclase porphyry; speckled with black, variably altered biotite; weakly magnetitic; weak sericitization; intense pervasive K-alteration; not visibly mineralized; blech.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	600001	0.171	0.120	0.14	4.51
6.1	13.7	600002	0.115	0.033	0.06	3.91
13.7	21.3	600003	0.040	0.007	0.03	3.16
21.3	29.0	600004	0.025	0.002	0.02	3.06
29.0	36.6	600005	0.019	0.002	0.02	3.23
36.6	44.2	600006	0.019	0.001	0.01	4.10

Alteration

From	To	K	A	M	cp	py
0.0	6.1	4		1	tr, mal	
6.1	13.7	5		1	tr	
13.7	21.3	5		1	tr	
21.3	29.0	5		1		
29.0	36.6	5		2		
36.6	44.2	5		2		

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Drillhole Report

IR00-61

Zone	MP-072	**Easting**	2149.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	4806.4	**Logged By**	V. Park
		Elevation	1160.5	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	8.2	MZ	Monzonite or monzonite breccia; homolithic, so difficult to tell if it's breccia; deep salmon-pink; fine-grained equigranular intrusive; original textures are smoothed yet discernible - overall homogeneous appearance; <5% mm-scale black speckling due to manganese oxide (usually in fractures); remnant biotite and minor magnetite. Intense pervasive K-alteration - entire rock is affected - textures overprinted; weak to moderate sericitization - locally intense; manganese oxide on many fractures. Very, very weakly magnetic - disseminated magnetite, often with hematite. Very, very rare oxidized pyrite flecks <1/4mm. Blah-looking, regardless of intensity of alteration. Abruptly into:
8.2	21.3	DYKE	Diorite to monzodiorite dyke; distinctly different from adjacent intervals - dyke; dark grey/cruddy green/purple-grey macroscopically; mottle pink-grey, grey, black, pink and white; very fine-grained, especially when compared to abutting monzonite - generally equigranular, but tending toward feldspar-phyric (also augite-phyric locally) also; high colour index (15-20%) with black and partially altered biotite, hornblende and augite; excellently preserved textures; much of the biotite is likely secondary. Patchy/selective K-alteration increases toward end of interval; minor sericite on some surfaces; pale red hematitic patina on many fractures; thicker (still <<<1/2mm) earthy orange limonite on other fractures. Not magnetitic; hematitic fractures suggest magnetite, but there is no response from magnet. Trace chalcopyrite on fractures - very, very rare. Similar to IR00-59 29.0 - 44.2 m; wet from 13.7 m. Suddenly into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	610001	0.066	0.030	0.02	2.09	5		0		tr
6.1	13.7	610002	0.025	0.014	0.01	2.19	3		0		
13.7	21.3	610003	0.004	0.001	0.01	2.23	2		0	tr	
21.3	29.0	610004	0.017	0.001	0.01	2.87	5		2	tr	
29.0	36.6	610005	0.073	0.005	0.02	2.94	5		2	tr	
36.6	44.2	610006	0.038	0.005	0.01	3.25	5		2	tr	

Lithology

From	To	LITH	Description
21.3	36.0	BX	Monzonite breccia, similar to 0.0 - 8.2 m, but with a more brecciated appearance; dark oink to salmon-pink; generally equigranular but with <5% feldspar-phyric (PPp) component; 5-10% mm-scale biotite flecks with altered rims; excellent textures. Very strong to intense K-alteration (less than 0.0 - 8.2 m); <5% plagioclase remains resistant to K-alteration, but is still showing minor alteration to clay and/or sericite; very weak sericitization increases very slightly to end of interval; minor localized patchy chlorite alteration after biotite; a few 1/2mm to 1/2cm milky quartz veinlets and veinlet fragments - not mineralized. Disseminated magnetite - occasionally with minor chalcopyrite; magnetite, occasionally with hematite, on fractures; unit looks magnetitic, but there is a very weak response by magnet. Trace chalcopyrite, intergrown with magnetite on fractures; rare pyrite.
36.0	38.1	DYKE	Dyke; medium dark green-grey; not dissimilar to 8.2 - 21.3 m; strong chlorite and sericite; patchy K-alteration; not magnetitic; not mineralized; quartz-calcite veinlets.
38.1	44.2	BX	Pink monzonite breccia, as 21.3 - 36.0 m; excellent textures; overall bleached look with increased sericitization; clay in sample also might indicate proximity to fault, likely at upper contact with the dyke. K-alteration remains very strong; minor dyke; biotite has grey leached-appearance. Minor magnetite - more than above. Very, very rare chalcopyrite with magnetite on fractures.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %

Alteration

K	A	M	cp	py

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Drillhole Report

IR00-62

Zone	MP-072	**Easting**	2137.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	4796.2	**Logged By**	V. Park
		Elevation	1158.5	**Comments**	Wet from 21.3 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	25.3	MZ	Monzonite or monzonite breccia; deep salmon-pink, decreasing to medium pink toward ed of hole; fine-grained equigranular - grain size decreases to end of interval; <2% monzodiorite=tic rock with acicular pyroxene (augite), randomly oriented; blurred textures but original texture is easily discernible - preservation of texture decreases; <10% black biotite (mm-scale) near top of hole - increasingly altered to almost ghost-like near end of interval. Intense pervasive K-alteration throughout - decreasing slightly down - some plagioclase crystals resist alteration near surface, but all minerals are affected near end of interval; sericitization, minor to 6.0 m, steadily increases to very strong with depth, where rock has a bleached-looking appearance and most surfaces are dusted with yellowish sericite; locally sericite has completely replaced the feldspar matrix to create sugary, incompetent, recrystallized rocks; increased sericitization might be due to increasing proximity to dyke; minor chlorite +/- calcite fractures near top; chlorite replaces biotite near lower contact; limonitic/sericitic surfaces to 10.0 m. Decreasingly magnetitic - >5% good mm-scale disseminated cubes with minor oxidation near surface, steadily decreasing to <1% near lower contact. Not visibly mineralized. 6.1 - 13.7 m: <5% secondary quartz as multiphase creamy to clear planar veinlets<1/2cm - not mineralized; strongly hematitic selvages on some veinlets; <10% hornblendic/augitic monzodioritic veinlet/micro-dyke - one chip shows a contact.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	620001	0.046	0.018	0.01	3.30
6.1	13.7	620002	0.031	0.002	0.01	2.95
13.7	21.3	620003	0.039	0.007	0.01	2.51
21.3	29.0	620004	0.070	0.013	0.01	3.49
29.0	36.6	620005	0.095	0.008	0.01	5.67
36.6	44.2	620006	0.086	0.008	0.02	5.29

Alteration

K	A	M	cp	py
5		3		
4		2		
4		1		tr
3		2		tr
1		4	tr	tr
1		4	1	1

Lithology

From	To	LITH	Description
25.3	42.7	DR	Diorite or monzodiorite intrusion; suggestive of the same mineralogy as dykes but is >20 m thick - so, is this a different phase?; wet from 21.3 m. Dark grey without microscope; mottled grey, green, black, cream and pink, much as IR00-60 8.2 - 21.3 m; dominantly equigranular; fine to medium grained with excellently preserved textures; some feldspar crystals have flattened, elongate crystals and other chips show distinctly planar/sheared structures (especially near upper contact where slickensides are also seen) - however, dominant texture is irregular; slight increase in modal quartz (towards a quartz diorite); abundant secondary or primary biotite. Propylitic alteration is dominant; most mafics altered (to some degree) to chlorite; modal epidote is common; variably ubiquitous sericitization - locally intense; patchy and selective K-alteration on matrix feldspar - adds to strong mottle appearance; sub-mm K-spar veinlets are also relatively common; degree of K-alteration decreases to end of hole; very rare veinlets of alternate composition - quartz, calcite, plagioclase; chloritization increases near end of hole; locally, pyrite appears to replace biotite. Very strongly magnetitic - 10-30% magnetite as interstitial clots and blebs and also in fractures; some fragments are saturated with magnetite; minor hematite with magnetite on fractures; significant and dominant mineral. Quantity of sulfides is difficult to estimate; pyrite, concentrated in fractures locally and as ultra fine disseminated crystals throughout intergrown with magnetite is visible more common than chalcopyrite; chalcopyrite, as very, very fine clots with magnetite and very, very rarely in hairline quartz stringers; although sulfides are concentrated, they comprise <1% overall; due to poor crystal structure and ambiguous colour, it can be difficult to distinguish between pyrite and chalcopyrite; all mineralization increase to end of interval.
42.7	44.2	MZ	Deep salmon-pink monzonite or monzonite breccia, as 0-25.3 m; intense K-alteration; rare sub-mm, sugary quartz veinlets; weakly magnetitic; not mineralized in the few chips collected. 25.3 - 36.6 m': chill zone? decreased grain size; increased magnetite; slightly increased chlorite; contact effect?, but I think this contact is tectonized - hmmm.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %

Alteration

K	A	M	cp	py

Drillhole Report

IR00-63

Zone	Southeast	**Easting**	3675.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2181.7	**Logged By**	V. Park
		Elevation	1067.4	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	5.5	BX	Monzonite breccia; dominantly light pink with grey and green mottles; mostly equigranular; original textures are variably preserved. Weak to moderate pervasive K-alteration, stronger along fractures; abundant secondary biotite; strongly sericitic surfaces and localized pervasive destruction; mm-scale patchy epidote, often where sericite is most intense - imparts strong green colouration where epidotization is more expansive; very minor chlorite; hematite after magnetite; limonitic staining on occasional fractures; all-in-all, rock has a very grungy, weathered look - all surfaces are coated with clay +/or sericite; all chips are easily scratched; very rare sub-mm feldspar and rarer epidote veinlets. Strongly magnetitic - ultra fine disseminated crystals throughout. Trace visible chalcopyrite as ultra fine crystals intergrown with magnetite. Contacts are NOT sharp; transitional into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	630001	0.167	0.093	0.32	6.90	2		4	tr	
6.1	13.7	630002	0.356	0.212	0.46	6.42	2		4	mal	tr
13.7	21.3	630003	0.420	0.165	0.73	6.23	2		4	mal	1
21.3	29.0	630004	0.178	0.049	0.23	6.26	3		3	5	tr
29.0	36.6	630005	0.188	0.034	0.24	6.17	2		4	5	tr
36.6	44.2	630006	0.214	0.050	0.26	6.01	3		3	5	tr

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
5.5	21.3	BX	Monzonite-magnetite breccia; dominantly grey but with significant pink and green mottling; 'contacts' assigned based on magnetite content; >25% grey/dark grey magnetite or magnetite-saturated intrusive chips; remaining rock as 0.0 - 5.5 m - dominantly pink with green; original textures are almost destroyed but rock appears non-phyric; textures improve from 13.7m; wet from 13.7m. Moderate K-alteration locally - <10% with strong pink colour, increasing to end of interval; very, very strong sericitization - creates slightly bleached, dusty-looking fragments, occasionally with sugary recrystallized texture; sericite after feldspar also appears more green locally; patchy epidote and chlorite increases and becomes more pervasive with depth; abundant ultra fine secondary biotite, often altered; rusty staining of groundmass and limonitic coatings on fractures; faintly silicified; all alterations increase with depth; rare hairline clear quartz veinlets. Very, very strongly magnetitic - clusters and disseminations of very fine magnetite throughout groundmass and in fractures; patchy oxidation; the most magnetitic fragments are pervasively silicified; magnetite and silica increase to end of interval. <1% malachite as mm-scale clots on fractures, as interstitial and often interconnected clots and as staining in feldspathic veinlets <2mm; <7% fresh chalcopyrite, usually as sub-mm clots and crystals in quartz-magnetite infused intrusive; chalcopyrite, often weakly oxidized, is very common in fractures and as stringers also; chalcopyrite decreases to top of interval; some chips with 25% sulfides; 1-2% fresh yellow pyrite lines some fractures. YUM. Transitional 'contacts' are assigned where magnetite decreases.													

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.3	44.2	BX	Monzonite-magnetite breccia very much as 5.5 - 21.3 m, but with slight decrease in chalcopyrite and magnetite; excellent textures - most of rock is equigranular intrusive (monzonite to diorite), but there is also <5% grey plagioclase porphyry (PPg) throughout; dominantly dark grey with black, pink and green mottling; colour index increases and the rock is more dioritic to the end of interval; textures are increasingly well preserved; a few dark grey, fine-grained fragments might be volcanic. <25% of rock with moderate to strong pervasive K-alteration - crystal boundaries are often blurred; selective K-alteration in remaining rock creates speckling; epidote and chlorite increase slightly (but still weak to moderate) to end of hole; secondary biotite is very, very abundant; due to alteration and textural variations, rock has a slightly 'leopard-spotty' to 'zebra-stripped' appearance; sericite is common. Moderately to strongly magnetitic, as above; magnetite-rich chips are also appear silicified, although both magnetite and silica decrease to end of hole; magnetite is both disseminated and fracture-controlled. <5% fresh to weakly oxidized disseminated chalcopyrite clots, associated and intergrown with magnetite; oxidation on fractures is not uncommon; minor pyrite in fractures; malachite is rare. Look almost as yummy as unit above.													

Drillhole Report

IR00-64

Zone	Southeast	**Easting**	3660.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2180.3	**Logged By**	V. Park
		Elevation	1069.9	**Comments**	Twin of R-029; all wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	10.7	BX	Breccia; grey with strong green overhue and mottling with minor pink and cream splotches and speckles; fine-grained (<1mm), equigranular feldspar-rich rock that resembles a micro-diorite (to monzonite) to an intermediate volcanic; good textures are easily seen with un-aided eye; rare phyric plagioclase = probable clasts; cement = more monzonitic, slightly coarser intrusive; strong variability in colours and textures. Mixed alterations; strong green colouration, pervasive and splotchy, is due to epidotization and chloritization - locally very strong; selective K-alteration of modal feldspar and less commonly as sub-cm envelopes; minor selective clay-alteration; sericite throughout, as surficial dustings and occasionally as complete replacement product; all alterations can bee seen a single sub-cm chip; rare hairline feldspar and epidote stringers; limonitic/hematitic fractures and rare chips with strong pervasive limonitic staining. Intensely magnetitic; all rock types are strongly magnetic, especially the darker, finer-grained fragments (possible volcanic?) - ultra-fine crystals disseminated throughout and concentrated in fractures; magnetite in fractures is occasionally larger (<1/2mm) and shows alteration to hematite; several chips are saturated with magnetite; magnetite might also be coated with manganese oxide on near surface fractures. Chalcopyrite, occasionally weakly oxidized, as ultra-fine disseminated crystals occurring with magnetite - percentage is difficult to determine due to its very fine size; some (sub-cm) fragments are completely saturated with chalcopyrite; trace malachite on

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	640001	0.245	0.117	0.39	6.98	1		5	mal	tr
6.1	13.7	640002	0.194	0.078	0.33	6.48	1		5	mal	tr
13.7	21.3	640003	0.207	0.035	0.47	6.26	1		5	5	1
21.3	29.0	640004	0.173	0.026	0.78	6.58	3		3	5	1
29.0	36.6	640005	0.312	0.021	0.50	5.46	2		4	7,	1
36.6	44.2	640006	0.309	0.041	0.56	6.72	1		5	7,	1

Lithology				Assay Results						Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			fractures; looks very good.												
10.7	16.8	DYKE	Dyke?; dark grey, green-grey to purple-grey; very fine-grained feldspar-rich groundmass; phyric augite crystals <1mm; also locally plagioclase phyric. Intensely magnetitic throughout groundmass; patchy oxidation of magnetite to hematite crates fine dark red/purple speckles and imparts a faint maroon-coloured hue; chloritization is locally very strong. Pyrite and chalcopyrite on fractures. Subtle contacts.												
16.8	21.9	BX	Breccia; dominantly dark green-grey fragments as 0.0 - 10.7 m intermixed with medium green and pink monzonitic breccia; represents a transitional contact zone, but exact locations are very difficult to determine. Chloritization and epidotization dominate and finer-grained dark green-grey fragments show especially strong epidote development on fractures; K-alteration > epidotization in coarser monzonitic rock. Strongly magnetitic throughout, but very slightly stronger in the more mafic fragments; alteration of magnetite to hematite is seen on fractures. Minor clay and sericite alteration; rare clear quartz veinlets <1mm (and associated with chalcopyrite). 5-10% chalcopyrite, mostly in fractures (occasionally weakly oxidized) and as sub-mm stringers and as fine disseminated crystals; abundant chalcopyrite also as interstitial and often interconnected clots; chalcopyrite is also occasionally intergrown with magnetite, but not in as strong an association than as is typical. Nice-looking rock!												

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.9	35.7	BX	Breccia; monzonitic; dominantly pink with strong epidote-green mottling and dark grey chips (<5%) and black speckling throughout; distinctly different from breccia to 10.7 m. Fine to medium-grained (1-3mm) feldspar-rich matrix; usually equigranular; slightly blurred grain boundaries are easily discerned; <5% (of even this high!) mafic minerals; 5-10% of chips with slightly higher mafics and decreased grain size, as 0.0 - 10.7 m and 16.8 - 21.9 m. Moderate to very strong pervasive K-alteration - destroys textures where strongest - overall intensity decreases to end of interval; as K-alteration decreases it becomes more selective and a strong differentiation in feldspar types is evident by 30.5 m; patchy bright green epidote - as sub-mm clots in K-altered rocks and as complete replacement of other chips; very minor chlorite; weak sericitization - locally strong near end of interval; minor hairline feldspar and/or quartz veinlets. Moderately to increasingly strongly magnetitic - as ultra-fine grains in disseminated clots and on fractures; some fragments with <2% while others with >70%; magnetite is locally altered to dark red hematite pseudomorphs or might just have developed a hematitic tarnish - usually black and unoxidized. Chalcopyrite, 5-10%, as mm-scale clots (also with magnetite) and as fracture-fill; minor oxidation on some fractures; one 2mm splotch of native copper; >1% fresh yellow pyrite coats fractures surfaces; sulfides increase to end of hole. Yum!													

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
35.7	44.2	BX	Breccia; magnetite and intrusive; more strongly resembles 0.0 - 10.7 m and 16.8 - 21.9 m, than the unit directly above; dominantly dark grey with strong greenish hue and pink locally; very fine-grained, feldspar-rich darker fragments with <50% rocks as above; textures of grungy-looking rock are discernible but screwed up; I suspect that the darker volcanic-like fragments are clasts in a monzonitic cement. Equal quantities of chloritization and epidotization and K-alteration, often occurring together; clasts are more chloritized; regardless of initial alterations, the rock is now intensely sericitized; fragments have sucrosic, crumbly and incompetent, bleached and/or dusty textures; selective clay alteration of some plagioclase. Very strongly magnetitic - 25-100% locally; <25% of chips are massive or semi-massive magnetite; in the really altered crumbly chips, the magnetite remains as the resistant mineral; magnetite is disseminated, stringy, massive and clotty; alteration to hematite on some fractures. 5-10% chalcopyrite, as disseminated crystals, as disseminated clots and stringers (often interconnected) and as hairline stringers and disseminations within massive magnetite (+/-qz) fragments; chalcopyrite, +/- pyrite, lines fractures; one native Cu clot <1mm. Upper contact might be a fault/shear; rocks around 36.6 m show stronger oxidation and all other alterations are increased (sericite, bleaching). YUM.												

Drillhole Report

IR00-65

Zone	Southeast	**Easting**	3661.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2194.0	**Logged By**	V. Park
		Elevation	1069.3	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	BX	Breccia; similar to IR00-64 0.0 - 10.7 m and 16.8 - 21.9 m; possible volcanic breccia; definitely magnetite breccia. Dominantly dark grey with strong medium to dark green colouration and with rusty overhue. Clasts are very fine-grained, equigranular, igneous (possibly volcanic) rock without discernible textures; probable cement is monzonitic to dioritic, locally plagioclase phyric (PPg) intrusion, in which textures are also blurred yet discernible. Oxidation as dominant alteration; most fragments with weak to strong pervasive limonitic staining and with earthy limonite patina on some fractures; sub-mm manganese oxide speckles on some surfaces; dark red hematite pseudomorphs after magnetite are common; strong chloritization is second strongest alteration, although it is still quite weak compared to oxidation; very, very weak K-alteration is localized and selective; rare epidote; sericitization throughout; weakly to moderately silicified. Very, very strongly magnetitic - >25% chips with >75% magnetite - remaining fragments with <50% magnetite as disseminated crystals, clots etc.; oxidized on fractures (to red hematite) and occasionally coated with manganese oxide; often magnetite appears as most competent mineral in a strongly weathered rock. Chalcopyrite (often difficult to see, but at least 2%, perhaps >5%?) as ultra-fine, fresh disseminated crystals and clots, usually associated with magnetite and concentrated in fractures (than appear silicified); malachite on fractures and non-planar surfaces is very common.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	650001	0.302	0.191	0.45	6.72	1		4	mal	tr
6.1	13.7	650002	0.213	0.090	0.27	5.83	1		4	mal	tr
13.7	21.3	650003	0.361	0.029	0.66	7.12	1		5	5	tr
21.3	29.0	650004	0.746	0.040	0.84	8.70	1		5	7	tr
29.0	36.6	650005	0.366	0.040	0.74	6.66	2		5	10	tr
36.6	44.2	650006	0.417	0.035	0.64	6.57	2		5	7	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
7.6	44.2	BX	Magnetite breccia; dark grey to black with minor pink and green speckling; rock type is difficult to determine, but resembles fine-grained (1-2mm) equigranular monzonite (to diorite), with minor augitic phases locally; original;, definitely igneous textures are vaguely discernible but improve significantly from 29.0m; rock has fairly consistent, homogeneous appearance throughout. Intensely magnetitic - magnetite comprises 10-95% of rock fragments, with an overall decrease to end of hole; magnetite as massive concentrations, as interstitial clots and as fracture-fill and disseminated crystals; magnetite serves as most obvious and dominant feature of this breccia; strongly associated with chalcopyrite. Pervasive K-alteration is scarce near upper contact but gradually increases and becomes dominant near end of hole; slightly stronger K-alteration near upper contact is selective, restricted to enveloped around fractures and as replacement of a few feldspar crystals; crystalline epidote, replacing <5% chips to 21.3 m and after 36.6 m - absent in-between; rare chlorite; moderate to locally strong sericitization throughout - affected rock has dusty, slightly bleached appearance; rare quartz and feldspar veinlets. Strongly sulfidic; 5-10% (locally greater) chalcopyrite as disseminated crystals, disseminated clots, irregular sub-mm stringers, concentrations in fractures and as inclusions along centerline of rare sub-cm clear quartz veinlets; chalcopyrite is frequently very closely associated and intergrown with magnetite, and can be difficult to see where the magnetite concentrations increase; some chips with >25% chalcopyrite; ubiquitous pyrite, usually on fractures. 21.3 - 36.6 m: increased sericitization; greyish rock has a bleached, dusty-looking appearance with few variations; contains significantly more chalcopyrite and magnetite (usually intergrown) and is cut with fine chalcopyrite stringers; secondary quartz, as sub-cm and mm-scale veinlets are more common. From 30.5 m: significant increase in pervasive K-alteration and decreased concentrations of magnetite; disseminated chalcopyrite is most common; improved textures and rock is more intrusive-looking; increased epidote and chlorite. At 36.6 m: oxidized fractures and some oxidized													

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			sulfides - fault?												

Drillhole Report

IR00-66

Zone	Southeast	**Easting**	3662.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2206.6	**Logged By**	V. Park
		Elevation	1067.8	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	9.8	BX	Breccia; dark orange due to very strong pervasive limonitic staining and earthy limonite coating on fractures; strongly weathered; original lithologies vary from dark grey, very fine-grained rock as IR00-65 7.6 - 44.2 m to medium-grained dioritic rock to a coarser-grained, feldspathic intrusion (like syenite) with feldspar crystals or crystalline feldspar veinlets to 1cm; 5% clack, glassy-looking, non-magnetic fragments = volcanic?; the coarse feldspathic rock ids more common from 6.1 m and retains original pearly luster and sub-translucence, even though it has orange staining; original textures in all rock types/phases are very well preserved; I cannot tell the relationship of one rock to another; bottom contact assigned where oxidation drops off; wet from surface. Oxidation as dominant alteration; all surfaces are coated with limonite and limonite-stained sericite; abundant sericitic surfaces (siltskins) are common in near surface weathered rocks; sericitization is very strong and completely destroys groundmass locally - always strongly stained; sub-mm dots of manganese oxide on many surfaces; weak selective K-alteration affects some feldspar in medium-grained, most monzonitic intrusion, where it is accompanied by minor epidote and chlorite; occasional clear quartz veinlets <1/2mm. Very strongly magnetitic - as massive concentrations, as interstitial clots, fracture-fill and fine disseminations; minor oxidation to hematite. Trace mm-size flecks of malachite; chalcopyrite is seen as fresh to oxidized disseminated clots in matrix and as oxidized pseudomorphs on fractures; assay results indicate high copper, so much of the

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	660001	0.317	0.201	0.67	9.03	1		5	mal	tr
6.1	13.7	660002	0.333	0.227	0.45	7.54	1		5	mal	tr
13.7	21.3	660003	0.156	0.067	0.37	5.63	1		5	mal	tr
21.3	29.0	660004	0.930	0.073	1.16	6.39	2		4	20	1
29.0	36.6	660005	0.452	0.036	0.70	5.48	3		2	7	tr
36.6	44.2	660006	0.122	0.034	0.39	3.29	3		3	1	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			chalcopyrite, likely tightly associated with magnetite, is oxidized (contributing to strong limonitic staining) and is difficult to see. Gradually into:												
9.8	19.8	BX	Intrusion-magnetite breccia; mottled grey, pink-grey, green-grey and black; medium-grained (1-2mm), dominantly equigranular feldspar-rich monzonite (to diorite) intrusion; original textures are moderately well-preserved; minor augitic fragments (<<5%). Intensely magnetitic; <50% of mass comprised of magnetite, occurring as interstitial clots, completely replacing some fragments; magnetite as very fine-grained, fresh and black, also shows minor alteration to hematite on fractures and less common magnetite crystals <1/2mm are altered to black or red hematitic pseudomorphs; some strongly magnetic areas appear weakly silicified; magnetite is closely associated with chalcopyrite. Most of rock, where not intruded by magnetite, shows varying quantities of propylitic (epidote and chlorite) and potassic alteration, often occurring together; K-alteration is selective usually, rarely pervasive; epidotization is less widespread but will completely replace some fragments - especially from 6.1 m; ubiquitous and increasingly strong chloritization; variable sericite; really grungy-looking, strongly altered rock. >5% chalcopyrite - quantity is difficult to estimate; cp as disseminated crystals, disseminated mm-scale clots (often with mt), as fine-grained to larger (<1/2mm) crystalline stringers, fracture fillings and most commonly (but significantly more subtle and difficult to see) as ultra-fine crystals intergrown with magnetite; <1% malachite <1/2mm; chalcopyrite clots and crystals also occur in epidote or quartz veinlets; minor oxidation to red to Cu-colour - possible native Cu <1mm; pyrite coats some fractures.												
19.8	22.9	DYKE	Augite porphyry dyke, as IR00-64 10.7 - 16.8 m; light to medium grey, very fine-grained groundmass with black to green to orange to red augite phenocrysts to 1mm. Faint maroon hue due to pinprick alteration of fine modal magnetite to hematite; hematite also seems to replace augite locally. Magnetitic; trace pyrite and chalcopyrite.												

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
22.9	39.6	BX	Breccia; mottled green, pink-green and dark grey; two dominant lithologies; 55% pink to green, medium-grained, equigranular monzonitic intrusion and 45% very fine-grained, more mafic (possibly volcanic) locally with minor plagioclase porphyry (PPg); monolithic fragments are possible clasts while the finer, more mafic and occasionally porphyritic rock = cement; excellent textures everywhere. Coarser monzonitic rock is only occasionally feldspar-phyric, with phenocrysts <3mm; pervasive K-alteration dominates and increases to end of interval; some phyric plagioclase remains unaffected; epidote occurs within matrix as mm-scale spots and is very slightly stronger on some fractures; <2% biotite; localized sericite; unit hosts 3-5% disseminated magnetite <1/2mm; chalcopyrite as disseminated crystals (like magnetite) but more commonly as fresh, bright yellow coatings on fractures and also as irregular interstitial clots and stringers; this unit likely comprises the breccia clasts. Remaining rock is finer and more mafic and occasionally porphyritic - probably forms the breccia cement; this dark green-grey unit is strongly chloritized and is crosscut by mm-scale epidote veinlets and some fragments are completely replaced with epidote; milky quartz veinlets and blebs also invade; matrix contains significant magnetite (up to 50-95% !!) - ultra-fine crystals as interstitial clots and massive concentrations - often associated with minor silicification; minor spotty hematite after magnetite; very, very strongly sulfidic - <10% (more locally!) chalcopyrite as fine crystals intergrown with magnetite, as hairline stringers that crosscut mt-cp concentrations, as complete replacement (chips to >1/2cm), as interstitial clots and just generally disseminated throughout; <1% pyrite typically occurs in fractures; some Cu-coloured blebs <1mm are seen on occasional fractures - oxidized chalcopyrite or naïve Cu? Very yummy.													

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
39.6	44.2	BX	Breccia, as 0.0 - 9.8 m; very strong pervasive limonitic staining (?); most strongly resembles the coarser-grained feldspathic unit with large crystals ad good pearly luster; decreased magnetite but still *disseminated throughout - tarnished and oxidized*; oxidized chalcopyrite occasionally seen; spotty potassic and epidotic alteration; so much oxidation - fault?												

Drillhole Report

IR00-67

Zone	Southeast	**Easting**	3669.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2230.2	**Logged By**	V. Park
		Elevation	1067.4	**Comments**	*All wet*

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	3.1	BX	Intrusion-magnetite breccia; weakly rusty-stained, feldspar-porphyritic grey rock with earthy limonite on most fractures; good textures; intermixed with dark green strongly chloritized fine-grained equigranular rock, often saturated with magnetite = cement? - also very strongly sericitized and epidotized; manganese oxide dots on fractures; trace malachite and chalcopyrite.
3.1	7.6	DYKE	Augite porphyry dyke; aphanitic feldspar-rich matrix with strong green or purple staining (chlorite or hematite, depending); black to green to red (fresh to variably altered) augite crystals <3mm; magnetitic groundmass - red dots - oxidized magnetite; occasional clay-altered, creamy feldspar laths <1-2mm; some oxidized fractures with limonitic coating.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	670001	0.197	0.124	0.27	6.36	0		5	mal	tr
6.1	13.7	670002	0.278	0.164	0.38	7.08	1		5	mal	1
13.7	21.3	670003	0.223	0.109	0.35	6.79	1		5	1	1
21.3	29.0	670004	0.200	0.098	0.34	6.53	1		5	1	tr
29.0	36.6	670005	0.194	0.072	0.36	6.75	1		5	5	2
36.6	44.2	670006	0.205	0.054	0.26	6.05	1		5	5	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
7.6	44.2	BX	Breccia, as IR00-66 22.9 - 39.6 m; contains two main lithologies; dark green, fine-grained, strongly magnetitic, plagioclase porphyry (dioritic) to equigranular rock possible forms breccia cement; <25% pink, more equigranular with increased grain size monzonitic rock possibly forms clasts, therefore breccia seems more matrix-supported; 5-10% non-magnetic, greenish volcanic clasts. Overall grungy grey, green-grey with green, pink, orange and black splotches; textures, although quite variable, are easily seen. Oxidized fractures and minor pervasive limonitic staining persist to end of hole; chloritization is strongest alteration (after oxidation), followed by epidote (mm-scale stringers and fractures) and selective K-alteration; patchy and very localized, very selective clay alteration of some larger feldspar crystals; plagioclase, calcite and quartz veinlets, sub-mm, persist throughout; silicified, quite strongly locally, creates clear micro-stockwork to crackle breccia; sericitization intensifies near end of hole. Intensely magnetitic - interstitial clots frequently replace 50-95% of <25% of rock mass; magnetite, more common in fine-grained dioritic (to PPic) rock than in volcanic (very rare to absent) and monzonitic rock (disseminated and stringers) is very often associated with secondary quartz and chalcopyrite; magnetite content is strongest feature of this interval. Chalcopyrite, at least 2-5% (probably more, but I can't see it), often occurring with pyrite and/or magnetite is common on fractures and as stringers - occasionally with oxidized (to Cu colour) selvages; chalcopyrite as fine crystals intergrown with massive magnetite (especially where silicified); pyrite is common((<2% locally) in fractures; trace malachite. Good-looking (yet ugly!) interval with deep oxidation.														

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Drillhole Report

IR00-68

Zone	Southeast	**Easting**	3692.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2198.0	**Logged By**	V. Park
		Elevation	1064.1	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	MZ	Monzonite; pale pink and pale green - dominant colour varies; equigranular, fine to medium grained feldspar-rich intrusive; leucocratic, with <5-10% mafic minerals (mm-scale biotite, rare amphibole and pyroxene, and magnetite); excellent textures are very well preserved throughout; very minor variability from start to finish; wet from surface. Weak to moderate, pervasive to selective K-alteration in groundmass; epidote as mm-scale interstitial clots to some chips with complete replacement; strong epidote in most fractures; epidotization and K-alteration together in most chips, so microscopically rock has a pink and green speckiling (that resembles colour-blindness test charts); also, micro-zoning od alterations around fractures is also seen; limonitic fractures to 6.1 m and from 35.0 m; moderate to very strong sericitization to 13.7 m; oxidized or alternately altered biotite. Very weakly magnetitic - sub-mm disseminated crytsals (<2%) - often oxidized with hematitic coating; magnetite content increases very slightly to end of hole. Not mineralized. 0.0 - 6.1 m: intermixed with surface rock (soil-covered rounded pebbles); most fractures are oxidized and are often seen with siltskins = weathered bedrock; minor organics; large fragments. 33.0 - 44.2 m: large chips with some limonitic fractures and siltskins, as 0.0 - 6.1 m - contamination? Drab-looking hole; <1% fragments to rounded pebbles of volcanic (?).

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	680001	0.030	0.015	0.03	2.63	2		0		
6.1	13.7	680002	0.046	0.045	0.02	1.87	2		1		
13.7	21.3	680003	0.056	0.043	0.00	2.35	2		1		
21.3	29.0	680004	0.035	0.023	0.01	2.55	2		1		
29.0	36.6	680005	0.027	0.012	0.02	2.60	2		2		
36.6	44.2	680006	0.018	0.007	0.04	2.69	2		2		

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Drillhole Report

IR00-69

Zone	Southeast	**Easting**	3702.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2171.3	**Logged By**	V. Park
		Elevation	1063.8	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	18.3	MZ	Monzonite, as IR00-68 0.0 - 44.2 m; dominantly medium, bright green with orange and salmon-pink fragments creating mottling; fine-grained, equigranular feldspar-rich, leucratic intrusive; <2% dark green melanic, occasionally feldspar-phyric intrusive (or volcanic?) chips; minor variations; possibly brecciated - hard to tell; wet from surface. Epidotization dominates with most fractures strongly affected; very strong K-alteration of <5% of rock likely as envelopes around fraactures; also K-alteation of modal K-sapr - patchy; minor limonite on accasional fractures to end of interval; minor sericite; localized clay and/or sericite after feldspar; minor chlorite locally. Moderately magnetitic - <2% disseminated magnetite cubes, often oxidized, throughout. Very, very rare sulfides on fractures. Transitional into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	690001	0.093	0.067	0.18	3.17	2		1		
6.1	13.7	690002	0.093	0.070	0.09	3.09	1		1		
13.7	21.3	690003	0.144	0.051	0.29	5.20	1		3		
21.3	29.0	690004	0.117	0.022	0.28	5.37	2		4	tr	
29.0	36.6	690005	0.102	0.021	0.24	4.89	2		4	tr	
36.6	44.2	690006	0.088	0.023	0.21	5.78	2		4	tr	

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
18.3	44.2	BX	Intrusion - magnetite breccia; mottled dark grey/green-grey. black, medium to light green and pink; heterolithic with 40% dark grey/green-grey (fine-grained with or without pink spotty K-spar patches and decreasing from strong pervasive chloritization - saturate dwith magnetite), 10-20% magnetite-saturated intrusive and massive magnetite (with tiny pinprick hematite spots) and remaining rock a medium to dark pink monzonite or epidotic monzonite (as 0.0 - 18.3 m); texturally variable, but generally easily distinguished; dark grey fine-grained rock might be volcanic. Variable, but always strong, alterations; more mafic intrusives (volcanics?) are very strongly chloritized; leucratic phases are strongly K-altered (more abundant) or epidotized; hematite after magnetite; rare oxidized fractures or pervasive limonitic staining (although these chips might be contamination from surface debris); occasional clay-altered feldspar crystals; abundant fine secondary biotite. Very, very strongly magnetitic - <40% of chips contain 10-100% magnetite; magnetitic fragm,ents are also very often pervasively silicified; surfaces speckled with pinprick spots of hematite; magnetite as massive concentrations and as interconnect. interstitial clots; magnetite is more common in the darker, finer-grained fragments (cement for breccia?); magnetite as widely spaced disseminations in K-sparic and epidotoc phases of intrusive. Trace visible chalcopyrite intergrown with magnetite; due to abundance of magnetite and proximity to well-mineralized magnetite breccia to the west, I would have expected this sample to be better mineralized.													

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Drillhole Report

IR00-70

Zone	Bell	**Easting**	2030.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3882.2	**Logged By**	V. Park
		Elevation	1214.4	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	21.3	BX	Intrusion breccia; salmon-pink, pink and grey-pink; dominantly medium-grained equigranular intrusive (monzonite = MZ) with minor phyric feldspar phenocrysts < 4mm (plagioclase porphyry = PPp); variably well preserved textures are always discernible; <5% biotite, decreasing with depth; minor manganese oxide on fractures near surface; wet from surface. Intense pervasive K-alteration - all minerals except some porphyritic plagioclase are affected; K-alteration is strongest at center of interval and the textures are blurred; sericitization is very strong from 6.1 m; sub-mm quartz stringers are common. 2-5% disseminated magnetite <1/2mm and as manganese oxide-coated pseudomorphs on fractures - increases to end of interval where magnetite clots become common. Trace malachite to end of interval - mm-size dots on fractures; chalcopyrite is seen as 1/2mm fractures/veinlets with oxidized selvages as less commonly as disseminated specks associated with magnetite; trace pyrite in fractures. 6.1 - 13.7 m: distinct bleached and dusty-looking; increased sericite and more clay-rich material in unwashed sample; textures are blurred.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	700001	0.359	0.172	0.59	4.83	4		3	mal	tr
6.1	13.7	700002	0.314	0.183	0.43	5.43	4		3	tr	tr
13.7	21.3	700003	0.212	0.081	0.26	6.58	3		3	mal	tr
21.3	29.0	700004	0.083	0.012	0.11	5.14	1		3	tr	tr
29.0	36.6	700005	0.033	0.005	0.02	4.82	0		3		tr
36.6	44.2	700006	0.039	0.005	0.02	5.15	0		3		tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.3	44.2	DR	Diorite; medium grey with slight pink hue near upper contact; fine-grained equigranular; salt-and-pepper micro-colouration; white plagioclase dominates; excellent textures. K-alteration, weak from upper contact decrease to 30.5 m and then disappears; increasingly sericitized groundmass, and by 36.6 - 44.2 m the unit contains significantly more clay and sericite (fault?) - develops bleached-looking, softer grey appearance. Strongly magnetitic throughout - interstitial magnetite occurs with other modal constituents, contributing to the 'pepper'. Trace chalcopyrite near upper contact; trace pyrite throughout. Blech.													

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Drillhole Report

IR00-71

Zone	Bell	**Easting**	2064.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3866.0	**Logged By**	V. Park
		Elevation	1214.5	**Comments**	Damp 0.0 - 6.1 m; wet 6.1 - 13.7 m, 21.3 - 29.0 m; 36.6 - 44.2 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	25.9	BX	Intrusion breccia; dark salmon-pink monzonitic (to plagioclase porphyritic, PPp); mostly equigranular but with 5-10% fragments with white, selectively clay-altered plagioclase phenocrysts <2-3mm; homogeneous appearance throughout; original textures are blurred but discernible; minor sub-mm biotite altered to white, sericitic mica. Intense pervasive K-alteration with very weak, very localized epidote to 6.1 m; from 18.3 m to end of interval, pervasive K-alteration affects >90% of rock mass (a decrease from 100%); weak sericitization throughout increases slightly to end of interval as it nears dyke/fault; rare hairline quartz veinlets. Weakly magnetitic - disseminated crystals with occasional higher concentrations in fractures. Chalcopyrite in fractures and very rarely disseminated - trace amounts visible - assay results indicate fairly high copper content, but I can't see it; trace pyrite near lower contact.
25.9	30.5	DYKE	Augite porphyry dyke; grey/green-grey very fine-grained groundmass with black to green augite phenocrysts <2mm; weakly chloritic; moderately magnetitic; <1% pyrite in fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	710001	0.298	0.042	0.39	2.87	5		2	tr	
6.1	13.7	710002	0.243	0.028	0.32	2.82	5		2	tr	
13.7	21.3	710003	0.162	0.015	0.20	2.73	5		2	tr	
21.3	29.0	710004	0.118	0.017	0.11	3.85	3		3		tr
29.0	36.6	710005	0.130	0.007	0.14	4.24	5		3	tr	tr
36.6	44.2	710006	0.242	0.015	0.28	4.78	5		3	1	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
30.5	44.2	BX	Breccia; deep salmon-pink, intensely K-altered monzonitic (to PPp) intrusion, as 0.0 - 25.9 m, but with stronger magnetite throughout as clots, stringers, fractures-fill and fine disseminations; magnetite is most obvious feature of interval after potassic alteration; little variation throughout. Sericitization near upper contact decrease to end of hole. >1% chalcopyrite, usually in fractures and visibly obvious from 36.6 m only, is closely associated with magnetite; chalcopyrite clots >2mm and sub-mm disseminations are also seen; trace pyrite in fractures; best-looking from 36.6 m where magnetite and chalcopyrite increase significantly.													

Drillhole Report

IR00-72

Zone	Bell	**Easting**	2031.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3803.1	**Logged By**	V. Park
		Elevation	1214.1	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	5.5	BX	Intrusion breccia; mostly deep salmon-pink with grey and dusty pink-grey mottling; <10% of rock lacks pink colour; medium-grained equigranular monzonitic host; homolithic; well-preserved textures; minor secondary biotite. Intense pervasive K-alteration; rare epidote and chlorite veinlets <1/2mm; minor sericite, with <10% showing bleaching due to stronger alteration. Very fine disseminated magnetite throughout, but magnetite is most evident as thin (<1/2mm) encrustations on fractures and as irregular stringers - usually associated with chalcopyrite. <1% chalcopyrite is most commonly seen with magnetite in fractures although occasional disseminated crystals are also present; very rare pyrite.
5.5	6.2	DYKE	Augite porphyry dyke; dark grey, green-grey aphanitic groundmass with black augite phenocrysts <1mm; magnetitic, with rare magnetite crystals altered to hematite.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.0	36.6	720005	0.210	0.007	0.22	3.60	4		3	1	tr
36.6	44.2	720006	0.060	0.001	0.05	2.75	5		3	tr	
0.0	6.1	720001	0.211	0.013	0.22	3.48	5		3	1	
6.1	13.7	720002	0.135	0.005	0.20	3.69	5		3	tr	
13.7	21.3	720003	0.331	0.017	0.60	4.89	5		3	1	
21.3	29.0	720004	0.137	0.011	0.20	2.84	4		3	tr	

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
6.2	44.2	BX	Monzonitic breccia, as 0.0 - 5.5 m; very strong, deep salmon-pink; minor secondary biotite with rims altered to clay-like powder or sericite; mottled with dusty grey-pink; mostly equigranular; little textural variations. Intense potassic alteration dominates, although some modal plagioclase remains unaffected; rare chloritic fractures; moderate sericitization throughout - moderate to locally strong to 15.0 m and very strong from 36.6 m (where rock has bleached, dusty-looking altered appearance). Magnetitic - fine disseminated crystals and also in stringers. <1% chalcopyrite with variable localized concentrations; usually an ultra-fine (<1/4mm) disseminated crystals, as fracture-fill and as irregular stringers and rare disseminated clots; trace pyrite. 13.7 - 29.0 m: >10% less pink/more grey, siliceous-looking intrusive with increased magnetite and chalcopyrite (disseminated and in mm-size stringers). 29.0 - 36.6 m: most intense K-alteration with mt-cp fractures and fine mt+cp disseminated crystals; trace chlorite and epidote. 36.6 - 44.2 m: strongest sericitization; feldspar-rich matrix has blurred, bleached, slightly grainy appearance; minor cp and mt on occasional fractures.													

Drillhole Report

IR00-73

Zone	Bell	**Easting**	2035.5	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3828.7	**Logged By**	V. Park
		Elevation	1214.0	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Monzonite breccia; mottled salmon-pink and dark grey; medium-grained rock is usually equigranular and occasionally feldspar phyric; blurred but very easily discerned textures - little to no variation throughout; abundant secondary biotite. Intense pervasive K-alteration - all minerals are affected; minor sericite; rare epidotic fractures. Dark grey mottling caused by quartz-magnetite infusion that pervades matrix (flooding) yet also causes discrete veinlets and pods - creates crackle breccia; magnetite also occurs as encrustations (with increased magnetite grain size) in fractures; strong magnetite persists throughout. <2% chalcopyrite (higher concentrations are localized) as fracture-fill, stringers, pods and disseminated crystals - almost always associated with magnetite (+/- quartz); ubiquitous pyrite. Yum. 0.0 - 6.1 m: large fragments due to broken rock; minor bleaching; increased chalcopyrite as clots and highly visible disseminations and stringers; sub-mm quartz veinlets are common. From 33.5 m: most strongly silicified with qz-mt breccia/stockwork; increased cp in fractures and in irregular qz-mt stringers; looks most interesting, but assay results do not agree with me.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	730001	0.426	0.019	0.54	6.04	4		4	2	tr
6.1	13.7	730002	0.249	0.007	0.31	5.02	4		4	tr	tr
13.7	21.3	730003	0.253	0.009	0.27	4.80	4		4	1	tr
21.3	29.0	730004	0.246	0.009	0.27	4.22	4		4	tr	tr
29.0	36.6	730005	0.216	0.006	0.26	5.18	4		4	1	tr
36.6	44.2	730006	0.172	0.004	0.28	5.05	4		4	2	tr

Drillhole Report

IR00-74

Zone	Bell	**Easting**	2045.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3846.9	**Logged By**	V. Park
		Elevation	1214.3	**Comments**	Wet to 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
5.5	10.9	DYKE	Augite porphyry dyke/monzonite; grey, pink-grey and green-grey; aphanitic to medium-grained; hosts augite phenocrysts <2-3mm, usually <1mm; sericitized groundmass; magnetitic; trace pyrite; weak and selective spotty K-alteration, combined with minor chlorite. Unwashed sample was mostly powder - could be due to the drill pulverizing an extremely hard rock OR the rock was powdery to begin with.
10.9	44.2	BX	Monzonitic intrusive breccia, as 0.0 - 5.5 m; mottled deep salmon-pink, grey and pale-pink; original textures blurred but identifiable. Intense K-alteration; moderate to strong sericitization from 33.0 m; rare chloritic fractures. Strongly magnetitic - usually disseminated and also as short stringers, clots, fracture-fill and massive clumps (sub-cm chips) - occasionally associated with quartz influx; up to 10% of rock mass (locally) is solid magnetite. <1% chalcopyrite (should be higher, but this is all I can see) as fine disseminations and fracture-fill, and as clots and stringers associated with magnetite; trace malachite on fractures to 13.7 m; chalcopyrite is also intergrown with and occurs as sub-mm stringers in massive magnetite (+/- qz) clots; nice-looking stuff locally. From 33.0 m: dull, bleached-looking, dusty, opaque and pale rock is strongly sericitized; mt and cp persist.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	740001	0.337	0.092	0.34	5.16	5		4	mal	tr
6.1	13.7	740002	0.379	0.014	0.57	5.37	5		4	mal	tr
13.7	21.3	740003	0.311	0.014	0.33	4.43	5		4	tr	tr
21.3	29.0	740004	0.264	0.020	0.31	4.93	5		4	tr	tr
29.0	36.6	740005	0.262	0.013	0.29	4.31	4		4	1	tr
36.6	44.2	740006	0.140	0.007	0.13	4.39	4		4	tr	tr

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Drillhole Report

IR00-75

Zone	Bell	**Easting**	2075.6	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3843.9	**Logged By**	V. Park
		Elevation	1214.8	**Comments**	Wet to 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	19.8	BX	Breccia; monzonite to plagioclase porphyry (MZ->PPp) with occasional plagioclase phenocrysts <3mm; generally good textures blurred by alteration; deep salmon-pink to pink with minor grey mottling; fine biotite is sericitized. Intense pervasive K-alteration; surface sericite from 6.1 m creates paler, dusty to earthy, sugary-looking bleached rock; rare epidote veinlets; some manganese oxide on fractures. Strongly magnetitic - occurs in fractures and as clots and stringers. At least 1% chalcopyrite (assay results indicate that Cu is high) intergrown with magnetite in sub-cm clots, in fractures and disseminated throughout; bornite in fractures (as abundant as cp) in magnetitic fractures and clots; looks good!.
19.8	22.9	DYKE	Green-grey dyke; uniform fine-grained groundmass with occasional plagioclase phenocrysts = PPg?; chloritic; hairline clay stringers; not magnetic; not mineralized; indistinct contacts.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	750001	0.449	0.044	0.55	3.46
6.1	13.7	750002	0.317	0.015	0.47	4.14
13.7	21.3	750003	0.338	0.025	0.43	4.20
21.3	29.0	750004	0.268	0.029	0.36	4.04
29.0	36.6	750005	0.255	0.027	0.37	4.83
36.6	44.2	750006	0.287	0.031	0.35	4.34

Alteration

From	To	K	A	M	cp	py
0.0	6.1	4		3	bn,	tr
6.1	13.7	4		3	tr	tr
13.7	21.3	5		3	1	tr
21.3	29.0	5		4	2	tr
29.0	36.6	5		4	1	tr
36.6	44.2	5		3	1	tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
22.9	44.2	BX	Breccia, as 0.0 - 19.8 m; still dominantly equigranular, but slightly more porphyritic than above; mottled pink and grey. Intense pervasive K-alteration; patchy sericite and clay; ubiquitous sub-mm clear milky quartz veinlets; epidote veinlets and mm-scale clots. Very strongly magnetitic - magnetite as massive clots, stringers, fractures etc., very often encased in clear secondary quartz. <2% chalcopyrite (possibly more according to assay results) - very obvious as stringers, fractures, clots, blebs etc. - often closely associated with magnetite +/- quartz, and rarely with epidote or bornite; some quartz-flooded chips are saturated with cp+mt. Nice-looking hole.														

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Drillhole Report

IR00-76

Zone	Bell	**Easting**	2024.3	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	3858.4	**Logged By**	V. Park
		Elevation	1214.2	**Comments**	Wet to 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	4.6	BX	Intrusion breccia; strong salmon-pink colour; medium-grained equigranular rock with good textures; black speckling from sub-mm dots of biotite and magnetite. Intense pervasive potassic alteration; rare spotty clay; minor sericite; rare quartz (+mt) veinlets <1/2mm. Strongly magnetitic - interstitial stringers and clots and fine disseminations throughout. <1% chalcopyrite, occurring as and with magnetite and occasionally on fractures.
4.6	44.2	DR	Diorite; medium grey (with variations) to locally pink-grey; speckled white (plagioclase) and black (biotite, magnetite); fine-grained equigranular - rarely porphyritic - faint foliated texture locally; abundant biotite (+/- mt) comprises 10-50%. weak pervasive (and selective) K-alteration (creates pale pink colour) to 31.0 m; ubiquitous, weak to moderate sericitization - locally creates bleached and dusty appearance. Trace pyrite, usually in fractures throughout; trace chalcopyrite, also in fractures, from 21.3m. Strong interstitial magnetite everywhere. From 31.0 m: no K-alteration; increased colour index; some pyritic fractures; mm-scale milky quartz veinlets.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	760001	0.113	0.045	0.13	5.52	4		4	tr	
6.1	13.7	760002	0.028	0.007	0.06	5.06	1		4	tr	tr
13.7	21.3	760003	0.038	0.005	0.07	5.18	1		4	tr	tr
21.3	29.0	760004	0.044	0.003	0.07	5.09	2		4		tr
29.0	36.6	760005	0.020	0.001	0.03	5.38	1		4		tr
36.6	44.2	760006	0.019	0.001	0.04	5.14	1		4		tr

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Drillhole Report

IR00-77

Zone	Southeast	**Easting**	3649.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2186.9	**Logged By**	V. Park
		Elevation	1072.0	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Breccia; <25% dark grey, green-grey and black very fine-grained volcanic fragments (=breccia clasts) with 75% orange, pink and grey monzonite (=cement) and magnetitic fragments and massive magnetite clumps; large fragments; all wet. Monzonite: fine to medium-grained (<2mm); low colour index, although variable; mostly equigranular but weakly feldspar phyric phases are seen; tends toward diorite; textures are generally well preserved; biotite is always altered; augitic phases, chloritic, from 21.3 m. Strong pervasive limonitic staining persists but decreases slightly to end of hole; earthy limonitic fractures are common. Weak pervasive K-alteration creates pale pink hue; most fragments also show mm-scale patchy epidote within k-sparic areas; epidote also completely replaces occasional fragments and lines fractures; both k-spar and epidote intensify with depth but the affected areas are more localized - <20% rocks are unaltered; plagioclase altered to clay and sericite; minor sericite throughout; weak pervasive silicification and occasional sulfidic quartz veinlet fragments <4mm and minor sub-mm veinlets; chloritization near end of hole; occasional fragments show alteration zoning. Very, very strongly magnetitic; magnetite, associated with silica, invades monzonitic host to comprise 5-50% of rock mass; many fragments are massive (+/- quartz); magnetite content increases to end of hole. <5% chalcopyrite, steadily increasing to end of hole occurs as sub-cm clots, stringers within strongly

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	770001	0.070	0.030	0.34	4.05	3		1	tr	tr
6.1	13.7	770002	0.106	0.035	0.39	4.85	4		2	tr	tr
13.7	21.3	770003	0.199	0.029	0.51	5.72	4		2	3	3
21.3	29.0	770004	0.153	0.022	0.36	6.00	4		2	2	3
29.0	36.6	770005	0.133	0.021	0.37	5.15	4		2	1	3
36.6	44.2	770006	0.245	0.018	0.32	4.82	4		2	bn,	3

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			silicified (flooding and veinlets, clear to milky) intrusive in very close association with magnetite +/- pyrite; chalcopyrite, in slightly reduced amounts occurs independent of magnetite, but is usually associated with pyrite, especially when in fractures; trace bornite with chalcopyrite from 36.6 m; possible covellite also - difficult to distinguish in magnetitic rock; <3% fresh yellow pyrite on fractures usually, but also in clots/blebs elsewhere; truly great-looking interval. Volcanic: dark grey very fine-grained intermediate volcanic; occasionally chloritized matrix; locally feldspar phyric and even shows faint trachytic texture; amygdaloidal void space; oxidized fractures; not magnetic; hosts trace pyrite>chalcopyrite as fine stringers; calcite and epidote in fractures; locally resembles augite porphyry dyke (near surface). 0.0 - 13.7 m: >5% augite porphyry dyke-like material (greenish augite crystals), magnetitic fine-grained matrix - minor oxidation to hematite; therefore, possible dyke straddling 6.1 m, maybe 3.0 m wide; 90% limonite-stained intrusive with abundant dark red hematite pseudomorphs after magnetite; decreased mt + cp + py. 13.7 - 44.2 m: strongly silicified - includes silica flooding and veinlets and blobs; intense magnetite and increasingly strong chalcopyrite and pyrite (+/- bornite and possibly one 1mm speck of copper); plagioclase porphyry (PPg) is also more common; neat micro-crackle breccia/stockwork in epidotized fragments. From 29.0 m: cp and py are slightly less associated with massive secondary quartz and occur interstitially in intrusive. At 36.6 m: possible fault/shear centered around here; <10% rocks with strong oxidation (with staining) and some rocks are completely sericitized - grainy, incompetent. Great-looking hole, especially near the end!													

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Drillhole Report

IR00-78

Zone	Southeast	**Easting**	3649.3	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2202.8	**Logged By**	V. Park
		Elevation	1071.4	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	19.8	BX	Breccia, similar to IR00-77 0.0 - 44.2 m; <10% volcanic clasts within intrusive matrix (monzonite and plagioclase porphyry); very large fragments in cuttings, indicating fractures/broken ground; very strongly weathered. Matrix: monzonitic intrusive; low colour index; generally fine-grained equigranular, but distinctly plagioclase phyric phases are present; original textures are always discernible, even where alteration is strongest; minor biotite. Very strongly oxidized; pervasive limonitic staining creates strong orange colour that persists to end of hole; stronger earthy limonite in fractures speckled with dark red hematite after magnetite or partially coated with manganese oxide. Intense clay and sericite alteration of all modal feldspar creates a soft, incompetent, opaque pseudo-rock in which original textures are still identifiable; in plagioclase porphyry, only phenocrysts are selectively clay-altered; this alteration is most likely due to weathering rather than a hydrothermal process. Weak, but increasingly strong, pervasive K-alteration imparts pink hue that is usually obscured by orange staining; <10% of rock is strongly propylitized (abundant chlorite and epidote); most rock shows almost equal K-spar and epidote alteration (causes pink and green speckling) or pink rock with several mm-scale dots of crystalline epidote and minor patchy chlorite. <5% disseminated and fracture-controlled magnetite steadily increases to end of interval; magnetite altered to hematite pseudomorphs <1/2mm in fractures; rare chips (also silicified) are saturated

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	780001	0.147	0.090	0.13	3.01	1		2		
6.1	13.7	780002	0.118	0.054	0.24	4.13	2		2	mat	tr
13.7	21.3	780003	0.264	0.068	0.47	4.86	3		2	tr	
21.3	29.0	780004	0.452	0.062	0.94	5.58	3		3	3	2
29.0	36.6	780005	0.343	0.056	0.57	5.83	4		3	1	1
36.6	44.2	780006	0.209	0.075	0.24	4.70	3		3		

Lithology				Assay Results								Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			with magnetite. <1% chalcopyrite and pyrite, intergrown with magnetite in interstitial clots or as oxidized encrustations (with mt) on fractures; trace malachite as mm-size dots in mt-qz chip. Clasts: dark grey/black very fine-grained, non-magnetic, featureless volcanic.												
19.8	33.5	BX	Breccia, similar to 0.0 - 19.8 m; <30% volcanic and plagioclase porphyry (PPg) fragments (=clasts) in a monzonite/diorite matrix. Matrix: intrusive, as above, with strong (but decreasing slightly) pervasive limonitic staining combined with greenish, unstained intrusive; refer to descriptions above. Dominant alteration (after oxidation) is weak to moderate pervasive potassic alteration with chlorite and hematite; epidote and chlorite are only minor constituents; minor sericite; rare but intense clay alteration. Up to half of intrusive fragments are grey with only patchy selective K-alteration; this rock is completely flooded with magnetite-bearing silica, with a minor associated stockwork; one quartz vein fragment >1cm. 1-3% chalcopyrite, with 1-2% pyrite, throughout occurs as localized very high concentrations (<50%) within silicified magnetite fragments, and less commonly in fractures. Best-looking interval in the hole. Clasts: black, aphanitic very fine-grained volcanic as above; mot magnetic or mineralized.												
33.5	44.2	BX	Breccia; 75% black volcanic and dark grey plagioclase porphyry (PPg); <25% monzonitic fragments are limonite-stained and K-altered with epidote dots; volcanic is boring grey; PPg is grey-brown with chloritization and limonitic fractures; moderately magnetic with <5% strongly magnetitic fragments; not mineralized.												

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Mount Polley Mine

Drillhole Report

IR00-79

Zone	Southeast	**Easting**	3657.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2225.7	**Logged By**	V. Park
		Elevation	1069.4	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	14.0	BX	Intrusive breccia; mixed orange and grey monzonite and diorite; leucratic monzonite is coarser-grained than strongly melanic diorite; usually equigranular with <10% phyric phases/clasts/matrix - I can't tell clasts from cements here. Strong limonitic staining and most surfaces dusted with dark orange limonite; monzonitic rock is more stained. Weak pervasive K-alteration (with mm-size epidote dots) in monzonite; selective K-spar and chlorite alteration in mafic rock; strong surface sericite due to near-surface weathering (siltskins). <5% disseminate magnetite; <5% of fragments are strongly magnetic. Trace malachite on fractures to 6.1 m; trace chalcopyrite with pyrite on fractures below. Relatively sharp lower contact, even though there is some mixing of samples; oxidation drops off suddenly here.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	790001	0.205	0.119	0.28	7.52	3		1	mal	tr
6.1	13.7	790002	0.509	0.127	0.97	6.15	3		2	tr	tr
13.7	21.3	790003	0.519	0.026	0.73	7.26	5		2	5	1
21.3	29.0	790004	0.497	0.047	0.87	8.79	5		2	10	1
29.0	36.6	790005	0.329	0.028	0.53	8.23	5		1	10	1
36.6	44.2	790006	0.417	0.030	0.48	8.44	5		1	10	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
14.0	44.2	BX	Magnetite breccia; dark grey fine-grained intrusive host (75% dioritic, 25% monzonitic); mostly equigranular but there is a feldspar phyric component; good textures throughout. Intensely magnetitic; 25-75% of the rock is invaded by very fine magnetite in quartz; several fragments are completely replaced by magnetite (+qz+cp); quartz occurs as a general flooding of matrix, but also forms discrete veinlets and pods and weak micro-stockwork locally; silica and magnetite (with sulfides) are dominating features. Pervasive K-alteration affects <5% of rock - monzonitic phase also dotted with mm-size epidote; selective K-alteration of modal feldspar; very slight increase in epidote (with minor chlorite) at end of hole; minor sericite; occasional limonitic fractures throughout; minor selective clay alteration locally; most intense silicification 20.0 - 40.0 m. At least 10% sulfides (probably more) - majority more strongly resemble pyrite (lighter, fresher colour) but the occurrences are more suggestive of chalcopyrite; definite pyrite lines fractures; remaining sulfide (let's call chalcopyrite) is intimately involved with magnetite (+qz) - intergrown with mt in clots, fractures, interconnected interstitial blebs and stringers, encased within and occurring along selvages of clear, cloudy and milky secondary quartz veinlets, and as hairline stringers and veinlets; minor bornite; trace malachite on one rusty fracture at end of hole. YUMMMMMM.													

Drillhole Report

IR00-80

Zone	Southeast	**Easting**	3605.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2177.8	**Logged By**	V. Park
		Elevation	1076.5	**Comments**	*Wet to 13.7 m; wet from 29.0 m*

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.4	MZ	Monzonite to plagioclase porphyry monzonite; limonitic staining decreases slightly to end of interval; mostly medium-grained but with some white clay-altered plagioclase phenocrysts <2-3mm; earthy dark red and orange limonite in fractures; 5-7% biotite <1mm - black, altered to limonite, sericite or fading to a bronze-coloured mica (*phlogopite?*); excellent textures; wet. Very weak K-alteration obscured by orange staining; ubiquitous sericite, locally intense - likely due to near-surface weathering. Very weakly magnetitic - occasional disseminated crystals; not mineralized.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
36.6	44.2	800006	0.055	0.011	0.14	3.06
0.0	6.1	800001	0.045	0.017	0.08	3.18
6.1	13.7	800002	0.048	0.021	0.06	3.44
13.7	21.3	800003	0.018	0.002	0.03	3.51
21.3	29.0	800004	0.013	0.001	0.04	2.70
29.0	36.6	800005	0.047	0.009	0.11	3.35

Alteration

From	To	K	A	M	cp	py
36.6	44.2	2		2	tr	
0.0	6.1	1		1		
6.1	13.7	2		2	tr	tr
13.7	21.3	1		1		
21.3	29.0	1		1	tr	tr
29.0	36.6	2		1	1	1

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
13.4	29.6	MZ	Monzonite; medium dull grey, homogeneous-looking rock macroscopically; distinctly visually different from adjacent units, with very sharp contacts; microscopically, unit is a leucocratic, medium-grained, equigranular monzonitic intrusive (opaque and sucrosic), similar to 0.0 - 13.4 m; this interval is dry. Feldspar-rich matrix has creamy, opaque colour except where it is coloured b the alterations that affect it; very rare black biotite. All surfaces are thickly coated with greyish, clayey sericite that almost completely obscures features; original textures are reasonably well-preserved although they're difficult to see. After sericitization, rock is variably and selectively K-spar and epidote altered; K-spar creates a pervasive faint pink hue while epidote, slightly less abundant, creates pretty, green speckling; all alterations increase to end of interval; no oxidation at all; rock has a distinct bleached appearance. Weakly magnetitic - mm-size disseminated clots. <1% chalcopyrite>pyrite, very difficult to see, lines fractures and occurs intergrown with disseminated magnetite clots; sulfides are obscured by sericite/clay coating. Note: this is such a strange-looking interval - could it be a fault?; planar contacts, increases alteration, increased mineralization, dryness and lack of oxidation indicate that this is definitely some sort of structural feature.													

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.6	44.2	MZ	Monzonite to plagioclase porphyry monzonite (PPp), as 0.0 - 13.4 m; light pink with patchy bright green; <50% of rock with pervasive orange limonitic staining; dominantly equigranular, but white plagioclase phenocrysts <2mm are mot uncommon; excellent textures. Limonitic staining, strong limonite coatings on fractures and alteration of biotite to limonite represent deep oxidation in strong contrast to unit at 13.4 - 29.6 m - increases to end of hole; tiny manganese oxide specks and hematite after magnetite on some fractures. Weak to moderate semi-pervasive K-alteration - some plagioclase crystals are less affected; combined with bright green epidote that occurs on fractures and as mm-scale replacement of matrix - degree of epidotization varied from chip to chip. <5% disseminated magnetite, occasionally altered to hematite. <1% chalcopyrite and pyrite, more abundant near upper contact and decreasing to end of hole; cp as fine (<<1/2mm)disseminated crystals, as hairline stringers, with magnetite in disseminated blebs and occasionally in fractures; concentration of sulfides rapidly decreases. <1% dioritic fragments with pyritic fractures from 36.6 m.												

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Drillhole Report

IR00-81

Zone	Southeast	**Easting**	3606.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2214.3	**Logged By**	V. Park
		Elevation	1077.2	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	PPp	Monzonitic plagioclase porphyry; even pink to salmon-pink with sub-mm black speckles and mm-scale white flecks; excellent textures throughout. Occasional limonitic fractures to 13.7 m and from 36.6 m; very localized pervasive limonitic staining near surface and from 21.3 m; minor manganese oxide specks on fractures. Strong pervasive K-alteration; plagioclase crystals are variably, selectively altered to opaque, earthy *white clay that stand out in contrast to pink matrix;* minor but ubiquitous epidote as mm-size clots in groundmass (often immediately adjacent to or encircling altered plagioclase) in fractures, increasing slightly to end of hole; minor chloritic fractures locally. <1% chalcopyrite and pyrite occurs in localized concentrations, as disseminations, blebs and strings; weakly magnetitic. 13.7 - 36.6 m: contains 5-10% dark grey/green-grey, very fine-grained, usually equigranular monzodiorite with strong pervasive silicification, strong chloritization and minor patchy K-alteration; these fragments contain 10-30% fine pyrite (+/- cp) disseminated within, and py>cp on fractures and as sub-mm stringers; more strongly magnetitic; could be minor breccia centered around 21.3 m. Remaining rocks in this interval also contain py>cp in fractures, as fine disseminations and as interstitial clots and stringers - the K-alteration and epidotization are increasingly advanced. From 21.3 m: weak pervasive limonitic staining of 10-25% of rock locally; occasional earthy limonite in fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	810001	0.015	0.005	0.05	2.95	4		2	tr	1
6.1	13.7	810002	0.025	0.007	0.08	2.90	4		2	tr	1
13.7	21.3	810003	0.041	0.006	0.11	3.29	4		2	tr	1
21.3	29.0	810004	0.020	0.002	0.09	2.79	4		2		
29.0	36.6	810005	0.021	0.004	0.09	2.90	4		2	tr	tr
36.6	44.2	810006	0.028	0.003	0.09	3.31	4		2	tr	tr

Drillhole Report

IR00-82

Zone	Southeast	**Easting**	3609.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2250.3	**Logged By**	V. Park
		Elevation	1076.0	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	14.6	BX	Heterolithic breccia; mottled grey/green-grey, dark orange, lighter orange-green-grey-cream; strong oxidation (pervasive staining and limonitic fractures); lithologies as follows: Andesite or microdiorite: dark grey/green-grey; fine-grained equigranular crystals <1mm with subtle phyric plagioclase crystals <2mm; excellent igneous textures - I'd be inclined to call this intrusive rather than flow, eg. dyke); comprises >50% of rock; *probably clasts in a clast-supported breccia.* Variably, but generally strongly chloritized; weak to moderate pervasive silicification accompanied by sub-mm to (rarely) sub-cm clear and cloudy quartz veinlets and rare opaque, qz-fs-ca veinlets <1/2cm; selective clay-alteration of phyric plagioclase phenocrysts to opaque, earthy, imperfect pseudomorphs; weak and very selective K-alteration of modal feldspar; oxidized fractures; minor epidotic fractures. Very strongly magnetitic - magnetite is completely infused with magnetite; tiny hematite speckles after pyrite on near-surface fractures. <1% chalcopyrite and pyrite on some fractures and intergrown with magnetite in siliceous groundmass. Monzonite: pink to green, depending on dominant alteration; equigranular; slightly more coarse-grained than andesite/diorite, with occasional white plagioclase phenocrysts <1-2mm; excellent textures; this rock is probably the cement. Moderate to strong pervasive K-alteration with mm-scale epidote spots dominates; <10% rock with creamy groundmass and strongly chloritized interstitial biotite; minor selective clay-alteration of

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	820001	0.129	0.071	0.11	7.75	1		4	mal	tr
6.1	13.7	820002	0.117	0.064	0.14	5.62	2		4	mal	tr
36.6	44.2	820006	0.050	0.009	0.08	3.61	-2		3	tr	3
13.7	21.3	820003	0.054	0.016	0.06	4.38	4		3	tr	7
21.3	29.0	820004	0.110	0.025	0.14	5.30	6		4	1	8
29.0	36.6	820005	0.085	0.025	0.12	6.43	-2		4	tr	5

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			porphyritic feldspar. Moderately to weakly magnetitic - fine disseminated crystals. >1% pyrite>chalcopyrite (5-8% of individual chips) as disseminated crystals, in fractures, and as interconnected interstitial clots and stringers - usually weakly oxidized; <1% malachite on fractures, especially from 6.1 m. Contacts are subjective.												
14.6	25.9	PPp	Pink, pyritic plagioclase porphyry monzonite, possibly brecciated; homolithic interval; dark pink to pink-and-green; white plagioclase phenocrysts <2mm are clearly visible; excellent textures; increased hornblende and pyroxenes - usually chloritic. K-alteration dominates with epidotization a very close second; most fragments show varying quantities of epidote and K-spar and show strong mottling; chlorite after mafics and clay after plagioclase are common; minor sericite - localized; occasional oxidized fractures. Magnetitic groundmass - <3% disseminated magnetite. 5-10% yellow pyrite with <1% associated chalcopyrite occurs throughout, with localized concentrations >10%; py>cp as interconnected interstitial clots and stringers, fracture-fill, disseminated crystals <1cm - it's everywhere!; sulfides on fractures are weakly oxidized; chalcopyrite is more commonly in fractures than elsewhere.												
25.9	44.2	BX	Pyritic breccia, much as 0.0 - 14.6 m, except with 3-8% fresh pyrite (oxidized on fractures) with <1% chalcopyrite everywhere, occurring as described 14.6 - 25.9 m. <40% andesite/microdiorite, increasingly phyric and growing faintly more coarse, with magnetitic matrix, strong chloritization, weak silicification and patchy epidotization>>K-alteration with fine quartz stockwork and <5% py>>cp stringers and veinlets, fracture-fill and as fine disseminations. Cement = PPp monzonite as described 14.6 - 25.9 m, with strong K-spar and epidote alteration with <10% pyrite as above; rare chalcopyrite. Propylitic alteration increases to end of hole white potassic alteration ebbs; <5% oxidation throughout.												

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Drillhole Report

IR00-83

Zone	Southeast	**Easting**	3612.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2286.7	**Logged By**	V. Park
		Elevation	1075.5	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Heterolithic breccia, much as those described in IR00-82; >70% monzonite and plagioclase porphyry monzonite (cement) with microdiorite/andesite (clasts) - proportions vary from sample to sample. MZ/PPp: strong K-spar and epidote alteration with variable chlorite; excellent textures; hornblendic; abundant sub-mm biotite and magnetite create fine black speckling - both altered; minor sericite; clay alteration of some feldspar phenocrysts; pervasive limonitic staining of <1/2 rock, decreasing to 15.0 m; trace to 5% pyrite as blebs, clots, stringers etc; no chalcopyrite. AND/DR: chlorite rock appears weakly silicified, is strongly chloritic and magnetitic, is increasingly coarse-grained and feldspar phyric; pyrite on fractures. See descriptions in IR00-82. 0.0 - 14.0 m: large angular clasts and oxidation = fractured, weathered bedrock. 14.0 - 22.0 m: propylitic alteration (epidote >chlorite) dominate over K-alteration; highest sulfides - 5%. From 22.0 m: strong mottling due to varying types and intensity of alteration; microdiorite to diorite to dioritic plagioclase porphyry (PPg) with abundant interstitial magnetite.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
36.6	44.2	820006	0.074	0.009	0.12	5.51	4		4		tr
0.0	6.1	830001	0.035	0.014	0.07	5.08	3		4		tr
6.1	13.7	830002	0.061	0.028	0.14	5.29	4		4		1
13.7	21.3	830003	0.047	0.012	0.09	3.68	4		4		5
21.3	29.0	830004	0.066	0.008	0.13	3.93	4		4		1
29.0	36.6	830005	0.063	0.008	0.11	4.61	4		4		tr

Drillhole Report

IR00-84

Zone	Southeast	**Easting**	3644.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2271.3	**Logged By**	V. Park
		Elevation	1072.3	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	OB	Overburden; heterolithic; possible breccia; large rock fragments with occasional rounded/smoothed edges, smooth pebbles, pervasive orange staining, oxidized fractures, and abundant organic material persists to end of whole; all rock looks crappy and if this isn't deep, deep overburden (due to some structure), then this hole is very, very contaminated. Mixed andesite/microdiorite and monzonite and diorite plagioclase porphyry phases as IR00-82 and IR00-83; mafic component dominates - >80%; strong chloritization and moderate silicification with weak *quartz stockwork; hosts 5-10% pyrite, usually* oxidized, throughout. Strongly magnetitic - minor hematite; all alteration types are represented, with chlorite and limonite strongest.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	840001	0.073	0.029	0.21	10.20
6.1	13.7	840002	0.077	0.022	0.26	9.39
13.7	21.3	840003	0.056	0.010	0.16	8.34
21.3	29.0	840004	0.071	0.012	0.16	8.15
29.0	36.6	840005	0.060	0.011	0.13	8.01
36.6	44.2	840006	0.052	0.010	0.14	7.52

Alteration

K	A	M	cp	py
1		4		5
1		4		10
1		4		2
1		4		10
1		4		5
1		4		5

Drillhole Report

IR00-85

Zone	Southeast	**Easting**	3653.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2250.5	**Logged By**	V. Park
		Elevation	1070.4	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	5.8	MZ	Monzonite to plagioclase porphyry monzonite (PPp); varying shades of cream, grey, green, all with patchy to pervasive limonitic staining; dominantly equigranular with minor phyric sections; moderately well-preserved textures - always discernible; large angular fragments; all wet. Oxidized, with biotite altered to orange-stained sericite, disseminated magnetite <1/4mm altered to red hematite pseudomorphs, and numerous limonitic fractures; <20% chips with weak to intense pervasive limonitic staining; note: limonitic fractures and larger *angular fragments persist to end of hole.* Mixture of propylitic (epidote>chlorite) > potassic alteration; occurring together in individual chips; minor patchy surface sericitization; very few clay-altered plagioclase phenocrysts. <1% magnetite, as fine disseminated crystals <1/4mm, usually oxidized to red hematite. No visible sulfides or copper oxides.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	850001	0.066	0.029	0.06	3.60	1		1		
6.1	13.7	850002	0.365	0.094	0.23	7.44	1		4	mal	tr
13.7	21.3	850003	0.247	0.048	0.18	6.12	1		4	tr	1
21.3	29.0	850004	0.138	0.028	0.15	4.56	1		3	tr	tr
29.0	36.6	850005	0.090	0.020	0.07	4.41	2		3	tr	tr
36.6	44.2	850006	0.101	0.017	0.09	4.49	2		3	tr	tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
5.8	29.0	BX	Intrusive-magnetite breccia; variable colouration - mostly dark grey/black with green-cream, pink-cream, orange; large angular fragments with frequent limonitic fractures; dominantly equigranular with weakly feldspar-phyric phases more abundant with depth; (my guess is that) leucocratic monzonitic rock forms clasts and that the more abundant (>60%) melanic, finer-grained, siliceous, magnetitic, occasionally feldspar-phyric (PPg) phase is the matrix - matrix-supported. Clasts = MZ; green-cream/pink-cream, equigranular intrusive with variable propylitic>potassic alteration; many limonitic fractures and frequent pervasive limonitic staining; most surfaces are sericitic; epidote increases to end of interval; good textures; very rare clay-altered feldspar phenocrysts <2mm - very rarely <5mm. Very weakly magnetitic - fine disseminated crystals; generally unmineralized, but 13.7 - 21.3 m interval shows occasional fragments with >5% fresh chalcopyrite as fine (<<1/2mm) stringers and blebs. Matrix = PPp; black to dark grey, dioritic plagioclase porphyry - with phyric plagioclase phenocrysts <2-3mm increasingly abundant with depth; good textures although very fine (<1mm); siliceous/silicified - good vitreous luster locally; rare quartz veinlets <1/2mm; strongly magnetitic groundmass - very fine (<<1/4mm) magnetite saturates rock - very rarely altered to hematite pinpoints; subtle chloritization; minor sericite; oxidized fractures are not so common ads in monzonite clasts; minor selective K-alteration near end of interval; up to 1% visible chalcopyrite, usually fresh but also weakly oxidized locally - occurs as subtle, sub-mm disseminated crystals throughout; one pinprick occurrence of malachite; <1% pyrite as obvious discontinuous coatings on fractures surfaces; quantity of magnetite and sulfides decrease to end of interval; lower 'contact'; is arbitrary and transitional.													

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
29.0	44.2	BX	Intrusive-magnetite breccia, as 5.8 - 29.0 m, but with <15% magnetitic, dioritic plagioclase porphyry - now clast-supported; large angular fragments with oxidized fractures; PPg remains siliceous/silicified with strong textures and increasing grain size and hosts <1% disseminated chalcopyrite and trace fracture-controlled pyrite - higher concentrations locally; monzonite has moderate pervasive K-alteration and is speckled with bright green epidote patches, and occasional selective clay-alteration; hosts minor magnetite, chalcopyrite and pyrite, as above; oxidation persists and <10% fragments have pervasive limonitic staining.												

Mount Polley Mining Corporation
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Mount Polley Mine

Drillhole Report

IR00-86

Zone	Southeast	**Easting**	3662.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2348.8	**Logged By**	V. Park
		Elevation	1072.6	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	18.3	MZ	Monzonite to plagioclase porphyry (PPp); light to medium pink with faint greenish hue and orange-stained to 6.0 m; dominantly medium-grained equigranular (1-2mm) with occasional feldspar phenocrysts to 2-3mm; excellently preserved textures - rock retains sub-translucence and pearly luster; <5% fine biotite; porphyritic texture develops by end of hole. Semi-pervasive K-alteration; white plagioclase phenocrysts usually remain resistant to potassic alteration, but are often selectively clay-altered; ubiquitous epidotic, 5-95% as patches in K-altered rock, as near-complete replacement of the entire rock and very commonly in fractures - increases to end of interval; minor sericite to 6.0 m. Strong pervasive limonitic staining to 6.0 m; fractures show orange-stained sericite or oxidized pyrite (to hematite and limonite); disseminated magnetite altered to dark red hematite flecks <1/2mm; stronger sericitization is associated with near surface oxidation. <1% oxidized pyrite in fractures and less commonly as blebs and stringers; no chalcopyrite; fresh sulfides by 13.7 m.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	860001	0.018	0.004	0.06	2.59	3		1		tr
6.1	13.7	860002	0.016	0.004	0.02	2.69	3		1		tr
13.7	21.3	860003	0.029	0.004	0.06	3.13	3		2		5
21.3	29.0	860004	0.015	0.002	0.01	2.39	3		2		tr
29.0	36.6	860005	0.015	0.002	0.02	2.37	2		1		tr
36.6	44.2	860006	0.014	0.002	0.02	2.38	3		1		tr

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
18.3	21.9	PPg	Grey plagioclase porphyry diorite; resembles unit described as andesite/microdiorite in IR00-82, 83, and 84. Very fine0grained siliceous chloritized matrix with white plagioclase phenocrysts <2mm (showing weak trachytic texture); tens toward coarse plagioclase crowed diorite. Magnetitic - significant fine magnetite evenly distributed through finer material, but as interconnected blebs and stringers in coarser, more dioritic rock; some chips saturated with magnetite and silica. Strong chloritization, throughout groundmass and thicker on fractures; mm-scale K-spar envelopes around occasional fractures. Fresh pyrite with magnetite disseminated throughout - some ships are completely saturated.													
21.9	44.2	PPp	Plagioclase porphyry monzonite, as 0.0 - 18.3 m, but with a better-developed phyric texture; pink with greyish and greenish sections; excellent textures and luster. Weak to moderate semi-pervasive K-alteration creates pink colour - gradually decreases to 36.6 m and is then stronger than ever; selective epidotization (mm-scale patches in K-altered rock) becomes more prevalent to 36.6 m, where is overwhelmed by K-spar; most plagioclase phenocrysts (1mm to 1/2 cm) are white and often selectively clay-altered; k-spar veinlets <3mm; chloritic fractures. <1% pyrite, fresh or oxidized, as blebs of good cubes <1/2mm. Abundant clay in unwashed sample - doesn't seem to reflect a fault, but this increased clay must represent some sort of structurally controlled hydrothermal event. Around 36.6 m: possible 1-2m dyke of plagioclase porphyry (PPg) with chlorite and silica as 19.23 - 21.9 m; could be distinct unit or clasts(?) in monzonite.													

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Drillhole Report

IR00-87

Zone	Southeast	**Easting**	3651.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2333.4	**Logged By**	V. Park
		Elevation	1073.8	**Comments**	Wet from 6.1 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	12.2	BX	Breccia?; mottled grey, pink and green with orange speckling; intermixed monzonitic and dioritic phases (but I can't tell their relationship); good textures; wet from 6.1 m. >80% monzonite to plagioclase porphyry monzonite (PPp); light to medium pink with epidote-green and creamy white speckling; dominantly equigranular, tending to more phyric phases with depth; <5% biotite. K-alteration dominates - affects >80% to all of the modal minerals; epidote as interstitial mm-scale blebs and sub-mm veinlets; strong surface sericite, especially near top of hole; K-alteration strongest from 6.1 m where original textures are blurred but porphyritic texture is better-developed; oxidized fractures occasionally. >10% very fine magnetite as disseminated crystals and clots - slightly decreased in PPp. Trace pyrite and chalcopyrite, oxidized (limonite-orange and copper coloured) on fractures; very, very rare chalcopyrite (<<1/2mm) intergrown with magnetite.. <20% diorite to plagioclase porphyry diorite (PPg); dark grey to dark green-grey with localized pink and cream speckling; dominantly equigranular with rare feldspar phenocrysts <2mm. Magnetitic groundmass appears silicified locally; rare fragments composed entirely of magnetite>quartz and crosscut by sub-mm milky quartz veinlets. Groundmass is occasionally chloritic; minor oxidation on fractures near surface only; rare selective K-alteration of feldspar where grain size is slightly increased. Indistinct contacts, so assigned at best guess

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	870001	0.038	0.021	0.05	3.79	3		4	tr	tr
6.1	13.7	870002	0.040	0.020	0.07	3.84	2		4	tr	tr
13.7	21.3	870003	0.032	0.005	0.08	2.62	2		4	tr	1
21.3	29.0	870004	0.046	0.003	0.10	3.63	3		4	1	1
29.0	36.6	870005	0.034	0.003	0.06	3.30	2		4	tr	1
36.6	44.2	870006	0.013	0.001	0.02	2.63	3		2	tr	1

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
			location.												
12.2	19.8	MZ	Monzonite to monzodiorite; equigranular to weakly feldspar phyric; mostly medium grey with pink and green variations; good textures; rock is developing a more opaque and sub-earthy luster and a very slightly bleached appearance; one fragment has a lineated/sub-gneissic alignment = shear/contact effect? Equal potassic and propylitic alteration - most chips show almost equal K-spar and epidote; chlorite in biotitic chips only; epidote is slightly stronger in *fractures; strong, increasing sericitization.* Magnetite occurs as sub-cm clots in otherwise weakly magnetitic (<2%, disseminated) rocks. Trace pyrite>chalcopyrite associated with magnetite. Transitional into:												
19.8	25.3	MZ	Monzonite; opaque; cream-coloured to mottled green and white and pink, green, white and black; pulled as separate unit due to its strong and distinct bleached/leached appearance; mostly non-phyric with some plagioclase porphyry (PPp) monzonite phases - all textures are well preserved. Types and intensity of alteration is quite variable; sericitization and localized clay alteration contribute to opaque, bleached, occasionally sugary and incompetent appearance; epidote and K-spar occur equally in some fragments; epidote speckled in very bleached creamy rock; K-alteration is strongest in PPp, where white feldspar phenocrysts <1-2mm are selectively clay-altered; occasional epidotic fractures; very rare chlorite. *Variable magnetite - some fragments lack it* completely, while others host 5-10% as blebs and clots. <1% chalcopyrite and pyrite intergrown with magnetite; rare chips show >10% chalcopyrite as stringy clots intergrown with a large magnetite (and quartz) clot; sub-mm pyrite is rarely disseminated through groundmass. Best-looking interval in this hole; strong alterations and increased mineralization indicate some hydrothermally-affected structure.												

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
25.3	37.2	PPg	Dioritic plagioclase porphyry; speckled grey and white; texture is barely phyric; randomly oriented white plagioclase phenocrysts crowd groundmass; transitional into next unit - feldspar crystals are aligned near lower contact; chloritized interstitial biotite; significantly decreased recovery of coarse rock fragments - harder rock - the unwashed sample wasn't overly clay-rich. Plagioclase phenocrysts are usually unaltered, but are occasionally altered to clay and/or sericite; chloritization of mafic minerals is common; steadily increasing spockly and selective potassic and epidotic alteration. Ultra fine magnetite and trace chalcopyrite in fractures and intergrown with magnetite.. Transitional into:													
37.2	44.2	PPp	Monzonitic plagioclase porphyry; mottled pink and green; good textures - weakly feldspar phyric (to equigranular); as 25.3 - 37.2 m, but with decreased colour index and much more K-spar. Strong potassic and epidotic alteration - each dominates from chip to chip, as well as occurring together; sericite and epidote in fractures; biotite is occasionally chloritized. Magnetitic groundmass, as clots and blebs (as above). <1% pyrite in fractures and as occasional blebs; very rare chalcopyrite with magnetite. Decreased recovery, as above.													

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Drillhole Report

IR00-88

Zone	Southeast	**Easting**	3643.0	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2313.0	**Logged By**	V. Park
		Elevation	1073.5	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	PPp	Monzonitic intrusion; faint feldspar phyric textures are preserved - barley; original textures are poorly preserved and rock also appears dominantly equigranular; rare biotite. Strong pervasive limonitic staining overprints very strong pervasive potassic K-alteration; strongly sericitized (due to weathering - siltskins) rock has a micro-sucrosic texture; large angular fragments are also indicative of fractures, weathered bedrock; minor specks of chlorite and epidote, usually on fractures. weakly magnetitic in less oxidized fragments; no visible sulfides or copper oxides.
7.6	18.3	DR	Medium to steel grey monzonitic diorite; equigranular fine-grained with very, very rare phyric plagioclase; bleached appearance and abundant clay suggests a fault; visually distinct from adjacent intervals; opaque surface dusting by strong sericitization impairs appearance, but original textures are easily identified; wet from 13.7 m. Rare mm-size patches of pink K-spar; weakly chloritized and epidotic; not oxidized. Fine magnetite throughout; trace fresh pyrite on occasional fractures.
18.3	21.9	PPp	Pink plagioclase porphyry monzonite, as 0.0 - 7.6 m, but without limonitic staining; strongly phyric with good feldspar phenocrysts <1/2cm; very large angular fragments. Intense K-alteration with minor chlorite and epidote on fractures. Weakly magnetitic; no visible sulfides.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	880001	0.016	0.006	0.02	2.60
6.1	13.7	880002	0.028	0.007	0.02	3.39
13.7	21.3	880003	0.030	0.003	0.03	3.86
21.3	29.0	880004	0.009	0.002	0.01	2.45
29.0	36.6	880005	0.010	0.002	0.02	2.96
36.6	44.2	880006	0.004	0.001	0.01	2.56

Alteration

K	A	M	cp	py
4		1		
2		2		tr
2		3		
3		1		tr
3		1		tr
2		1	tr	1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.9	44.2	MZ	Monzonite to plagioclase porphyry (PPp) monzonite; mottled grey, pink and light green; dominantly equigranular with feldspar phyric phases; well-preserved textures; general bleached appearance intensifies to end of hole where clay in unwashed sample is common - adjacent to major structure? Moderate pervasive K-alteration, dominant near top of interval slowly decreases and becomes more selective; epidotization (with minor associated chlorite) occurs as veinlets/fractures and disseminated clots where potassic alteration is strongest, and increases slightly to end of hole; feldspar crystals are variably clay altered; sericitization throughout - creates dusty coating, localized grainy textures and adds to 'bleaching'. Very weakly magnetitic; trace pyrite in fractures.													

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Drillhole Report

IR00-89

Zone	Southeast	**Easting**	3608.1	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2410.3	**Logged By**	V. Park
		Elevation	1076.4	**Comments**	Wet from 13.7 m

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	OB	Overburden?; large, angular fragments with earthy limonitic fractures and organic material to end of hole; similar to IR00-84, which also failed to intersect bedrock; wet from 13.7 m; it is slightly possible that some of the downhole overburden-type material is contamination in a wet hole. Rock is dominantly pink/salmon-pink monzonite and plagioclase porphyry (PPp) monzonite with strong to intense K-alteration; excellent textures. 0.0 - 13.7 m: strong pervasive limonitic staining; earthy sericitic limonite (siltskins) on all surfaces; grainy; very strongly weathered appearance; blurred but discernible textures; trees; drillers' grease; rare trace oxidized pyrite. 13.7 - 44.2 m: intermixed monzonite and PPp; monzonite is mottled pink and green (K and ep alteration) with medium-grained (1-2mm) equigranular groundmass and hosts up to 2% interstitial and fracture-controlled pyrite; PPp is intensely K-altered, has slightly more oxidation and hosts trace pyrite on fractures; both phases with moderate magnetite - (>5%) disseminated; no visible chalcopyrite. 21.3 - 36.6 m: <5% grey, dioritic PPg with intensely magnetitic groundmass and silicified appearance; <1% chalcopyrite and pyrite intergrown with magnetite; excellent strong phyric textures, with minor selective K-alteration of feldspar phenocrysts; one rounded black volcanic pebble.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	890001	0.010	0.005	0.02	2.38	4		1		tr
6.1	13.7	890002	0.078	0.043	0.12	3.47	4		2		tr
13.7	21.3	890003	0.061	0.025	0.08	3.25	5		3		2
21.3	29.0	890004	0.017	0.007	0.02	2.90	4		3		tr
29.0	36.6	890005	0.098	0.007	0.15	3.87	5		3		1
36.6	44.2	890006	0.080	0.005	0.11	3.58	4		3		tr

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Drillhole Report

IR00-90

Zone	Southeast	**Easting**	3562.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2459.1	**Logged By**	V. Park
		Elevation	1076.9	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.7	PPp	Plagioclase porphyry monzonite with non-phyric component; mottled orange, grey-orange, pink-grey and green-grey; micro-textured - excellently preserved; wet from surface. Moderate to strong pervasive limonitic staining, decreasing to end of interval; minor earthy, deeply limonitic fractures; moderate potassic and propylitic (epidote>>chlorite) - usually together with epidote strongest in fractures and as mm-scale clots in a dominantly potassic groundmass; feldspar variably altered to clay and/or sericite - remain white; epidote dominates in <5%. <1% magnetite as sub-mm disseminated crystals and as sub-mm clots. Trace pyrite, oxidized near surface on fractures and as sub-mm disseminations. Transitional (out of oxide) into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	900001	0.015	0.006	0.03	2.76	4		1		tr
6.1	13.7	900002	0.016	0.004	0.03	3.20	4		1		tr
13.7	21.3	900003	0.018	0.003	0.03	4.16	1		3	tr	3
21.3	29.0	900004	0.016	0.002	0.02	4.31	1		3	tr	5
29.0	36.6	900005	0.016	0.003	0.01	3.96	2		2		1
36.6	44.2	900006	0.020	0.003	0.02	3.09	3		1		1

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
13.7	25.9	DR	Intrusive; dioritic to increasingly monzonitic; speckled grey and black and white; equigranular with minor phyric phases; excellent textures; rare limonitic staining; distinctly phyric by lower contact. Dominant propylitic alteration (chlorite, epidote, sericite) rapidly changes into K-alteration in the more monzonitic phases below 21.3 m; matrix has sericitic, grainy and recrystallized creamy feldspar matrix and is peppered with abundant dark green chlorite, patchy epidote and black magnetite and biotite; pink K-alteration originates around fractures and then becomes more dominant. Moderately magnetitic - fine-grained disseminations and clots. <5% pyrite, fresh to oxidized on some fractures; pyrite as disseminated crystals, interstitial clots and hairline stringers; rare fragments are saturated with pyrite; very rare chalcopyrite.												
25.9	29.9	DYKE	Augite porphyry dyke; dark grey/green-grey with <10% purple-grey chips; chill margins have aphanitic groundmass with white plagioclase phenocrysts <1mm and augite phenocrysts 2-3 mm; rock is more equigranular near center of interval, with increased (1mm) grain size; strongly magnetitic. Moderate to strong chloritization; strong sericitization near center; near upper contact, groundmass has purple/red staining due to pinpoint hematite after modal magnetite - this staining is less prevalent at lower contact; faint lineation near lower contact. Trace pyrite on fractures.												
29.9	44.2	MZ	Monzonite to plagioclase porphyry monzonite (PPp), much as described in 0.0 - 13.7 m and 13.7 - 25.9 m; dominantly equigranular with occasional feldspar-phyric phases; good textures. K-alteration is dominant; slightly less strong chloritization of modal mafics and strongly epidotic fractures; both alterations occur together; selective K-alteration of feldspar crystals; occasional cloudy and milky quartz veinlets <1mm that host magnetite +/- hematite. <1% pyrite, as above, as interstitial clots and hairline stringers; no visible chalcopyrite. <5% chips with pervasive limonitic staining - possible downhole contamination in a wet hole?												

Drillhole Report

IR00-91

Zone	Southeast	**Easting**	3584.7	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2437.8	**Logged By**	V. Park
		Elevation	1076.6	**Comments**	All wet

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	5.5	MZ	Monzonite; weak micro-phyric textures where it tend toward plagioclase porphyry (PPp); green-pink; excellent igneous textures; <5% biotite. Moderate to strong pervasive K-alteration - <5% feldspar crystals are unaffected; ubiquitous weak epidotization as mm-size clots and fractures; minor *selective clay alteration; weak limonitic staining;* sericite throughout. <5% disseminated magnetite, occasionally altered to/coated with magnetite on fractures. No visible sulfides/oxides. <5% magnetitic volcanic (?) chips; wet from surface.
5.5	12.2	PPg	Dioritic plagioclase porphyry; dark grey with barely porphyritic plagioclase phenocrysts <1-2mm; strong equigranular component; crowded; excellent textures. Chloritized modal mafics; minor selective K-alteration. Strongly magnetitic groundmass; trace pyrite.
12.2	21.3	PPp	Monzonitic plagioclase porphyry, as 0.0 - 5.5 m, but with very slightly more pronounced phyric feldspar; excellent textures; pink groundmass with white, unaltered plagioclase phenocrysts <2-3mm; minor epidote on fractures. Weakly magnetitic - cubes <1/4mm. <1% pyrite and trace chalcopyrite, partially oxidized, on fractures and disseminated. <5% magnetitic volcanic (?) fragments. Transitional into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	910001	0.008	0.004	0.03	3.28	4		2		
6.1	13.7	910002	0.014	0.007	0.02	3.70	1		3		
13.7	21.3	910003	0.021	0.005	0.05	3.27	4		3	tr	1
21.3	29.0	910004	0.003	0.001	0.01	2.43	4		1		
29.0	36.6	910005	0.004	0.001	0.01	2.81	4		1		
36.6	44.2	910006	0.015	0.001	0.04	4.11	2		4		1

Lithology				Assay Results							Alteration			
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
21.3	36.6	MZ	Monzonite, as 0.0 - 5.5 m; pink and green; equigranular; excellent textures; locally feldspar-phyric, increasing to end. Strong pervasive K-alteration increases to end of interval; 5-10% patchy epidote - decreases to end of interval; biotite altered to chlorite; sericite is very strong locally. Weakly magnetitic - as fine disseminated crystals <1/4mm and concentrated in rare quartz veinlets. Trace disseminated pyrite and pyrite selvages on sub-mm quartz veinlets (rare); no chalcopyrite.												
36.6	44.2	PPg	Dioritic plagioclase porphyry, as IR00-90 13.7 - 25.9 m; dark grey/green-grey; possible breccia? excellent textures - equigranular to weakly porphyritic. Strongly magnetitic groundmass; modal mafics chloritized and sericitized; generally siliceous/silicified-looking; very selective potassic and epidote alteration; <10% of interval shows intense K-alteration. <1% fresh pyrite on some fractures and occasional disseminated crystals.												

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Drillhole Report

IR00-92

Zone	Southeast	**Easting**	3679.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2249.3	**Logged By**	V. Park
		Elevation	1066.7	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	BX	Breccia; large angular fragments and strong oxidation to end of hole = fault?; typical Southeast Area breccia = mixture of pinkish monzonitic PPp clast in a silicified magnetitic dioritic (PPg) matrix; intensely magnetitic. <1% pyrite and chalcopyrite as stringers fractures in monzonitic rock - always partially oxidized; looks yummy although it's so oxidized. Note: organic material and oxidation and large chips at end of hole; this is either a fault or downhole contamination in a very wet hole.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	920001	0.244	0.166	0.51	7.80
6.1	13.7	920002	0.251	0.145	0.48	6.79
13.7	21.3	920003	0.129	0.069	0.22	6.84
21.3	29.0	920004	0.171	0.048	0.26	7.34
29.0	36.6	920005	0.139	0.047	0.33	7.81
36.6	44.2	920006	0.130	0.045	0.26	6.43

Alteration

K	A	M	cp	py
1		4	tr	tr
2		3	1	1
1		4	tr	1
1		4	tr	tr
1		4	tr	tr
1		4		tr

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Drillhole Report

IR00-93

Zone	Southeast	**Easting**	3653.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2083.3	**Logged By**	V. Park
		Elevation	1079.2	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	44.2	PPp	Plagioclase porphyry monzonite; strong igneous textures; mostly equigranular with some obvious white plagioclase phenocrysts <1-3mm; medium pink with cream and black speckles; <25% with strong pervasive limonitic staining to end of hole; contains <5% dioritic rock = xenoliths?, I don't think this is a breccia. K-alteration dominates but decreases; epidote, occurring as mm-size specks in potassic rock becomes more significant with depth; some localized selective K-alteration; ubiquitous biotite. Minor fine disseminated magnetite. <1% disseminated, usually oxidized pyrite - seems more related to alteration than to mineralization. Note: strongly oxidized/stained rock at end of hole might be downhole contamination. ZZzzzzzz.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
13.7	21.3	930003	0.029	0.014	0.03	2.63
0.0	6.1	930001	0.043	0.027	0.08	2.73
6.1	13.7	930002	0.035	0.018	0.07	3.20
21.3	29.0	930004	0.013	0.002	0.01	2.57
29.0	36.6	930005	0.030	0.011	0.08	2.66
36.6	44.2	930006	0.021	0.009	0.09	4.11

Alteration

K	A	M	cp	py
3		1		tr
3		1		tr
3		1		tr
2		1		1
2		1		tr
3		1		tr

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Drillhole Report

IR00-94

Zone	Southeast	**Easting**	3617.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2063.8	**Logged By**	V. Park
		Elevation	*1080.8*	***Comments***	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	MZ	Monzonite to plagioclase porphyry monzonite; equigranular near surface to increasing feldspar-phyric; orange-pink due to strong pervasive limonitic staining through strongly K-altered groundmass; silty limonitic/limonite-stained surfaces are usual in weathered bedrock; excellent and improving textures; lower contact assigned at base of intense oxidation. Potassic alteration and oxidation dominate; patchy epidote and chlorite; intense sericitization in weathered near-surface rocks; selective clay alteration of some plagioclase phenocrysts. Moderately magnetitic - disseminated cubes <1/2mm. <1% oxidized pyrite encrustations in fractures; no visible copper minerals. Transitional into:
7.6	33.5	PP	Monzonitic plagioclase porphyry; green-grey as IR00-99 19.8 - 44.2 m; very good textures; low colour index. Propylitic alteration dominates with abundant epidote+chlorite+sericite+pyrite (fresh, <1%); strong K-alteration, as envelopes around fractures in <5% of chips; faint and selective potassic alteration throughout. Moderately magnetitic - disseminated crystals <<1/2mm. >1% fresh blebby pyrite as part of propylitic alteration assemblage; no visible copper minerals. Rather abruptly into:

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	940001	0.078	0.051	0.10	3.39	4		2		1
6.1	13.7	940002	0.043	0.031	0.06	2.73	3		2		tr
13.7	21.3	940003	0.039	0.019	0.14	3.38	2		2		1
21.3	29.0	940004	0.032	0.010	0.07	3.22	2		2		1
36.6	44.2	940006	0.168	0.007	0.16	2.02	5		2	tr	2
29.0	36.6	940005	0.058	0.006	0.21	2.44	3		2		1

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
33.5	44.2	PPp	Plagioclase porphyry monzonite; strong pink colour with minor green, grey and white mottling; excellent plagioclase phyric textures; minor ragged biotite. Very strong potassic alteration affects entire groundmass except for white plagioclase phenocrysts <2mm; rare patchy epidote and chlorite. Minor disseminated magnetite. <2% fresh pyrite as mm-scale blebs, and in fractures where it is commonly associated with silica - increasingly abundant to end of hole; trace chalcopyrite intergrown with pyrite +/- silica on fractures. Best-looking interval so far.												

Drillhole Report

IR00-95

Zone	Southeast	**Easting**	3590.8	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2068.2	**Logged By**	V. Park
		Elevation	1084.2	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	6.0	PPp	Monzonitic plagioclase porphyry; dark pink-orange with faint greenish hue; feldspar-phyric textures are only locally well-preserved; remaining rock (>70%) is more coarse and equigranular and it looks syenitic rather than K-altered (which it is); excellent textures. Intense pervasive K-alteration; greenish feldspar-phyric chips (>30%) are propylitic and plagioclase phenocrysts are selectively clay-altered; occasional limonitic fractures; rare patchy epidote. No visible sulfides; very weakly magnetitic - disseminated crystals <1/4mm. Transitional into:
6.0	22.3	PPp	Monzonitic intrusive - probably porphyritic, but not obviously so...could also be homolithic breccia; homogeneous appearance; grain boundaries are subtle but discernible; sub-vitreous luster; no mafic minerals. Intense pervasive K-alteration; trace sub-mm epidote patches; splotchy manganese oxide on many fractures; very minor sericite. Very weakly magnetitic; no visible sulfides or oxides.
22.3	22.9	BX	Monzonitic breccia (?); exactly as 6.0 - 22.3 m, but with 5-10% magnetite-silica fragments; very slightly more magnetitic than above - clumps of massive magnetite in clear quartz. <2% chalcopyrite (+/-py, +/-mt), fresh to variably oxidized, in many fractures; <1% wispy malachite in similar occurrences; nice-looking interval...too bad it's not fatter. Lower contact assigned where intense K-alteration ends.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
6.1	13.7	950002	0.039	0.024	0.23	1.19	5		1		
13.7	21.3	950003	0.311	0.115	0.42	1.81	5		1	mal	tr
21.3	29.0	950004	0.057	0.016	0.13	3.64	2		3	mal	7
36.6	44.2	950006	0.030	0.003	0.05	4.10	0		4		tr
0.0	6.1	950001	0.025	0.009	0.07	1.31	4		1		
29.0	36.6	950005	0.024	0.007	0.06	4.59	1		4		tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
22.9	27.4	BX	Mottled pink and green monzonitic intrusion with quartz eyes <1-2mm and some phyric feldspar; excellent textures; >5% magnetite-quartz (possible volcanic?) fragments. Propylitic alteration dominates, with strong epidote, chlorite, silica, sericite and pyrite; >15% rock with intense K-alteration, as above, that either originated as envelopes along fractures or is downhole contamination in a wet hole. >7% wispy, blebby, disseminated and fracture-controlled, fresh to tarnished, pyrite - propylitic assemblage; silicified.													
27.4	44.2	PPg	Dyke; dioritic plagioclase porphyry dyke; plagioclase phenocrysts <1-2mm are widely dispersed and are very subtle; >80% mafic minerals; very fine-grained, equigranular groundmass hosts abundant (can't estimate content) very fine magnetite and grainy (micro-sucrosic) feldspar; up close rock has a soft, grainy and incompetent texture; rare augite phenocrysts <1mm near upper contact; biotitic. Silica, although weak, dominates; patchy chlorite; very minor, very selective potassic alteration; ubiquitous sericite; minor pinprick hematite after modal magnetite. Trace disseminated pyrite; no copper minerals. Is this Chris Wild's lamprophyre?													

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Drillhole Report

IR00-96

Zone	Southeast	**Easting**	3625.9	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2043.0	**Logged By**	V. Park
		Elevation	1083.3	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.7	MZ	Monzonite to plagioclase porphyry monzonite, as IR00-94 0.0 - 7.6 m; blurred textures are increasingly well-preserved and phyric texture develops; homogeneous appearance. Strong, even pervasive limonitic staining through intensely K-altered rock; abundant surface sericite, especially at top of hole in weathered bedrock. Rare magnetite; no visible sulfides. *Rather sharply into:*
13.7	42.0	PP	Monzonitic plagioclase porphyry; green-grey, as IR00-94 7.6 - 33.5 m; excellent textures. Propylitic alteration (ep+chl+py+ser) dominates; <15% rock with intense K-alteration as fracture envelopes (?); also minor patchy K-alteration throughout; abundant sericite; very strong sericite and clay near upper contact. >1% fresh, blebby and stringy pyrite = part of propylitic alteration assemblage - increase to end of interval; no visible copper minerals.
42.0	44.2	PPp	Salmon pink plagioclase porphyry monzonite, as 0.0 - 13.7 m and IR00-94 33.5 - 44.2 m; white, partially clay-altered plagioclase phenocrysts stand out in contrast to intense K-alteration of groundmass; <1% disseminated pyrite. Possible augite porphyry dyke at upper contact - <1% chips in sample. Blech.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
6.1	13.7	960002	0.042	0.027	0.13	2.04	4		1		
36.6	44.2	960006	0.020	0.009	0.04	2.72	2		1		2
0.0	*6.1*	*960001*	*0.054*	*0.037*	*0.07*	*2.17*	*4*		*1*		
13.7	21.3	960003	0.010	0.008	0.02	2.44	1		1		tr
21.3	29.0	960004	0.015	0.004	0.02	2.56	1		1		1
29.0	36.6	960005	0.018	0.006	0.07	3.13	1		2		1

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Drillhole Report

IR00-97

Zone	Southeast	**Easting**	3656.4	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2163.4	**Logged By**	V. Park
		Elevation	1070.9	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	7.6	BX	Breccia overburden; larger angular chips with earthy limonitic surfaces and strong pervasive limonitic staining are strongly indicative of overburden or near-surface weathered bedrock; minor organics. Intrusive-magnetite breccia; monzonitic with magnetite-silica; original textures are not discernible and relationship of magnetite pieces and intrusive fragments is not clear. Very strong/intense pervasive limonitic staining overprints and obscures all original info; rocks are ragged and grainy; most surface are coated with earthy to crusty limonite and patchy manganese oxide and occasional oxidized pyrite; all other alteration types are obliterated. Very strongly magnetitic - as sub-mm massive clumps, often oxidized, cubes <1/2mm. Trace oxidized pyrite on some fractures; chalcopyrite or copper oxides are not seen.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	970001	0.115	0.066	0.31	6.05	2		4		tr
29.0	36.6	970005	0.139	0.041	0.43	6.00	2		4		1
36.6	44.2	970006	0.103	0.040	0.26	5.68	2		2		tr
6.1	13.7	970002	0.134	0.063	0.41	5.99	2		4		tr
21.3	29.0	970004	0.161	0.040	0.35	6.09	2		4		1
13.7	21.3	970003	0.152	0.053	0.45	5.85	2		4		1

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
7.6	28.3	BX	Intrusive-magnetite breccia; mottled dark grey and black and orange; host intrusive seems dioritic, to plagioclase porphyry diorite, with greyish groundmass with patchy limonitic staining (difficult to tell as the sample contains sand-size fragments only); remaining rock is magnetite-silica fragments. K-alteration, usually selective, increases to end of interval; weak localized propylitic alteration; strong oxidation and staining persists to end of hole. Strongly magnetitic and usually associated with silica and probably forms breccia cement. >1% fresh pyrite as disseminated concentration on mm-scale; chalcopyrite is likely present, but I can't see it; sulfides are frequently intergrown with magnetite in mt-qz clots.												
28.3	29.9	DYKE	Augite porphyry dyke; typical; grey to green-grey or purple grey; fine-grained aphanitic to microgranular groundmass with greenish black augite phenocrysts <1-2mm and creamy plagioclase phenocrysts <1-2mm; strongly magnetitic; pinprick hematite after magnetite; not mineralized.												
29.9	44.2	BX	Intrusive-magnetite breccia, as 7.6 - 28.3 m; stronger K-alteration; earthy limonite on fractures and localized, but strong pervasive limonitic staining persists; strongly magnetitic; >1% (and very slightly higher than in upper interval) fresh pyrite in mm-scale concentrations, often associated with magnetite and silica.												

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Drillhole Report

IR00-98

Zone	Southeast	**Easting**	3645.0	**Drilled By**	IR Rig 4
Length (m)	36.6	**Northing**	2146.2	**Logged By**	V. Park
		Elevation	1073.2	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	15.2	MZ	Monzonite to plagioclase porphyry monzonite; dominantly equigranular with increasingly common porphyritic phases; original textures are blurred but increasingly discernible; minor biotite; low colour index; medium-grained (<1-2mm). Very, very strong pervasive limonitic staining and earthy limonitic fractures obscure other alterations; moderate pervasive K-alteration with rare localized epidote clots; some phyric feldspar crystals are *variable clay altered; ubiquitous moderate* sericitization, especially on surfaces of near-surface weathered rock. Weakly magnetitic - disseminated cubes <1/2mm are often oxidized to hematite and/or coated with manganese oxide. No visible sulfides; oxidized pyrite on fractures is likely responsible for high oxidation/limonite content there. Transitional into:
15.2	20.7	BX	Intrusive-magnetite breccia, as IR00-97, but with <5% magnetite-silica fragments; dominant lithology as pink-orange monzonitic plagioclase porphyry (PPp; minor black non-magnetitic volcanic fragments; well-preserved textures. *Limonitic staining persists although it's weakening;* earthy dark orange limonite coatings on most fractures - possible after pyrite. K-alteration still dominates (after oxidation) and only one splotch (<1/2cm) of epidote is seen near lower contact; *patchy manganese oxide; minor sericite.* Rare oxidized pyrite on fractures.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
0.0	6.1	980001	0.126	0.080	0.05	3.31	3		2		tr
21.3	29.0	980004	0.052	0.033	0.04	3.32	3		2		tr
29.0	36.6	980005	0.057	0.032	0.04	3.39	3		2		tr
6.1	13.7	980002	0.108	0.064	0.05	3.16	3		2		tr
13.7	21.3	980003	0.069	0.037	0.07	2.92	3		2		tr

Lithology				Assay Results						Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
20.7	21.9	DYKE	Augite porphyry dyke, as IR00-97 28.3 - 29.9 m; magnetitic groundmass with patchy alteration to hematite; augite and plagioclase phenocrysts <1-2mm; dark grey.												
21.9	36.6	BX	Intrusive-magnetite breccia as 15.2 - 20.7 m, but with <5% unoxidized dioritic plagioclase porphyry (PPg); limonitic staining is still strong but is more selective; strongly limonitic fractures are still very common. K-alteration remains strong but is slightly more selective; add faint propylitic alteration near end of hole. Disseminated magnetite cubes <1/2mm, 2%. Trace fresh to partially oxidized pyrite as mm-scale clots. 336.6 - 44.2 m: organic material and rounded volcanic pebbles are likely contamination from surface - either due to sloughing but more likely due to sampling. Blech.												

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Drillhole Report

IR00-99

Zone	Southeast	**Easting**	3681.2	**Drilled By**	IR Rig 4
Length (m)	44.2	**Northing**	2306.0	**Logged By**	V. Park
		Elevation	1068.9	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	16.8	MZ	Monzonite to plagioclase porphyry monzonite - difficult to tell due to very, very small chip size; orange with grey mottling; good textures; increasingly phyric to end of interval; minor biotite. Strong pervasive limonitic staining throughout; moderately to strongly K-altered rock; <<5% patchy epidote and chlorite, increasing very slightly with depth. <5% disseminated magnetite cubes <1/2mm; rare disseminated oxidized pyrite. Transitional into:
16.8	19.8	PPg	Dioritic plagioclase porphyry; grey with white plagioclase phenocrysts <1mm and very siliceous, magnetitic groundmass - what does this correlate with?; indistinct contacts; freshest-looking rock in this hole.

Assay Results / Alteration

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
6.1	13.7	990003	0.027	0.002	0.07	3.67	3		2		tr
13.7	21.3	990004	0.010	0.001	0.02	2.39	2		3		tr
21.3	29.0	990005	0.009	0.005	0.04	2.56	2		2		1
29.0	36.6	990006	0.008	0.001	0.05	2.39	1		2		1
36.6	44.2	990001	0.034	0.019	0.14	3.37	1		2		tr
0.0	6.1	990002	0.017	0.008	0.04	2.54	3		3		tr

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
19.8	44.2	MZ	Monzonite with minor feldspar-phyric component - increasingly dominant to end of hole; equigranular, medium-grained; light to medium green with minor pale pink and cream mottling; excellent textures; where plagioclase phyric, white laths show trachytic texture. Propylitic alteration dominates; <25% patchy bright green epidote replaces faintly K-altered groundmass; rare chlorite; plagioclase crystals are typically unaltered; up close rock has a very pretty mottled green, pink and white appearance; minor ubiquitous sericite. <2% disseminated magnetite. >1% fresh (to weakly tarnished) pyrite on fractures and as mm-scale blebs - part of the propylitic alteration scheme; no copper minerals. Blech.														

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Drillhole Report

IR00-100

Zone	Southeast	**Easting**	3680.8	**Drilled By**	IR Rig 4
Length (m)	25.9	**Northing**	2275.3	**Logged By**	V. Park
		Elevation	1067.5	**Comments**	

Depth	Az	Dip	Survey Type
0.0	0	-90	Head Set

Lithology

From	To	LITH	Description
0.0	13.5	PPp	PLagioclase porphyry monzonite; dominantlly equigranular near op, but phyric textures are increasingly evident; medium greenish-grey with orange-pink speckling; excellent origianl textures and luster; minor bioite. Moderate pervasive K-alteration throughotu with some selective intense alteration; <5% epidote on fractures and speckled in groundmass; ubiquitous weak sericitization; trace chlorite near surface. Very rare dissemininateed magnetite. No visible sulfides.
13.5	15.0	DYKE	Augite porphyry dyke; dark grey with dark green and purple-red sections; aphanitic to micro-sucrosic groundmass with dark grey to balck augite phenocrysts <1-2mm and <5% thin plagioclase laths <1-2mm - all phenocrysts are very fine. Many surfaces dotted with pinpoints of hematite - where dense, rock has purple-red hue; larger dark red hematite pseudomorphs after modal mafics - augite; minor chlorite. Strongly magnetitic groundmass - ultra fine to <1/2mm disseminated cubes. Not mineralized.

Assay Results

From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %
0.0	6.1	1000001	0.010	0.005	0.02	2.03
6.1	13.7	1000002	0.004	0.003	0.02	1.58
13.7	21.3	1000003	0.009	0.009	0.05	2.26
21.3	25.9	1000004	0.008	0.001	0.03	1.91

Alteration

From	To	K	A	M	cp	py
0.0	6.1	3		1		
6.1	13.7	3		1		
13.7	21.3	3		2		3
21.3	25.9	3		1		5

Lithology				Assay Results							Alteration				
From	To	LITH	Description	From	To	Tag ID	TCu %	CuNS %	Au gpt	Fe %	K	A	M	cp	py
15.0	25.9	PPp	Plagioclase porphyry monzonite, as 0.0 - 13.4 m; medium pink with creamy sections; origianl textures are discernible, but entire rock has a softened, almost blurred appearance and origianl luster is less pearly. MOderate, even pervasive K-aletration with <5% spotty epidote; minor sericite; very weak selective clay alteration. Minor disseminated magnetite. 3-5% pyrite as mm-scale concentrations of fresh crystals, rarely tarnished; no visible chalcopyrite; note: all this pyrite makes the two PPp unit distinct from each other.													

ASSAY CERTIFICATES

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR3-1	0.084	0.045	0.08	5.14	000122a	1	
IR3-2	0.215	0.038	0.21	4.94	000122a	2	
IR3-3	0.159	0.01	0.11	5.37	000122a	3	
IR3-4	0.06	0.009	0.04	4.72	000122a	4	
IR3-5	0.151	0.011	0.24	5.38	000122a	5	
IR2-10	0.239	0.056	0.2	6.21	000122a	6	
IR2-11	0.459	0.028	0.56	6.48	000122a	7	
IR2-12	0.467	0.018	0.49	6.1	000122a	8	
IR2-13	0.251	0.014	0.25	4.75	000122a	9	
IR2-14	0.184	0.018	0.14	4.57	000122a	10	
IR2-15	0.088	0.01	0.12	3.35	000122a	11	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR4-1	0.084	0.052	0.1	4.47	000202c	1	
IR4-2	0.039	0.021	0.05	4.47	000202c	2	
IR4-3	0.154	0.077	0.21	5.36	000202c	3	
IR4-4	0.098	0.051	0.13	4.21	000202c	4	
IR4-5	0.132	0.053	0.12	2.59	000202c	5	
IR4-6	0.145	0.027	0.12	3.18	000202c	6	
IR4-7	0.118	0.009	0.1	3.76	000202c	7	
IR4-8	0.12	0.004	0.08	3.81	000202c	8	
IR4-9	0.294	0.012	0.25	3.47	000202c	9	
IR4-10	0.095	0.021	0.09	4.5	000202c	10	
IR4-11	0.113	0.022	0.13	4.84	000202c	11	
IR5-1	0.208	0.064	0.27	4.4	000202c	12	
IR5-2	0.104	0.035	0.16	5.14	000202c	13	
IR5-3	0.111	0.053	0.21	4.52	000202c	14	
IR5-4	0.102	0.029	0.19	4.92	000202c	15	
IR5-5	0.118	0.008	0.24	4.47	000202c	16	
IR5-6	0.134	0.014	0.25	4.42	000202c	17	
IR5-7	0.07	0.015	0.16	4.37	000202c	18	
IR5-8	0.041	0.006	0.09	4.44	000202c	19	
IR5-9	0.084	0.015	0.16	4.81	000202c	20	
IR5-10	0.113	0.023	0.21	4.08	000202c	21	
IR5-11	0.134	0.025	0.24	4.23	000202c	22	
IR5-12	0.118	0.029	0.45	4.39	000202c	23	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR6-1	0.021	0.012	0.05	3.93	000210b	1	
IR6-2	0.1	0.041	0.08	4.61	000210b	2	
IR6-3	0.179	0.089	0.18	4.73	000210b	3	
IR6-4	0.121	0.06	0.13	4.1	000210b	4	
IR6-5	0.043	0.021	0.09	3.94	000210b	5	
IR6-6	0.06	0.017	0.09	3.71	000210b	6	
52966	0.285	0.055	0.17	7.47	000210b	7	
52967	1.763	0.202	0.78	11.5	000210b	8	
52968	0.13	0.028	0.09	4.9	000210b	9	
52969	0.073	0.04	0.03	4.86	000210b	10	
52970	0.193	0.127	0.2	5.24	000210b	11	
52971	0.267	0.07	0.31	5.24	000210b	12	
52972	0.369	0.046	0.23	5.99	000210b	13	
52973	0.704	0.154	0.29	13.9	000210b	14	
52974	0.191	0.127	0.11	4.22	000210b	15	
52975	0.857	0.192	0.6	6.88	000210b	16	
64626	0.745	0.04	0.53	8.13	000210b	17	
64627	0.665	0.054	0.44	7.64	000210b	18	
64628	0.584	0.036	0.65	4.68	000210b	19	
64629	0.32	0.024	0.42	4.99	000210b	20	
64630	0.339	0.019	0.21	6.07	000210b	21	
64631	0.128	0.009	0.1	3.71	000210b	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
64773	0.093	0.032	0.17	1.52	000217A	1	
64774	0.085	0.019	0.11	1.6	000217A	2	
64775	0.078	0.01	0.1	1.76	000217A	3	
65251	0.12	0.019	0.1	2.84	000217A	4	
65252	0.099	0.018	0.09	1.1	000217A	5	
65253	0.088	0.015	0.09	1.91	000217A	6	
65254	0.112	0.022	0.1	1.93	000217A	7	
65255	0.184	0.029	0.16	4.69	000217A	8	
1	0.057	0.029	0.03	4.47	000217A	9	IR7
2	0.067	0.018	0.06	3.88	000217A	10	IR7
3	0.071	0.018	0.13	4.28	000217A	11	IR7
4	0.075	0.023	0.19	4.59	000217A	12	IR7
5	0.054	0.022	0.07	4.15	000217A	13	IR7
6	0.055	0.021	0.07	4.01	000217A	14	IR7
7	0.056	0.022	0.15	4	000217A	15	IR7
8	0.054	0.021	0.08	4.07	000217A	16	IR7
9	0.05	0.023	0.09	4.25	000217A	17	IR7
10	0.052	0.022	0.09	4.2	000217A	18	IR7
11	0.057	0.019	0.07	3.92	000217A	19	IR7
12	0.043	0.016	0.06	4.26	000217A	20	IR7
13	0.051	0.015	0.1	3.78	000217A	21	IR7
14	0.042	0.013	0.05	4.09	000217A	22	IR7

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
52285	0.212	0.029	0.33	3.89	000228b	1	
52286	0.178	0.073	0.2	4.3	000228b	2	
52287	0.177	0.139	0.24	4.91	000228b	3	
52288	0.171	0.121	0.18	4.76	000228b	4	
52289	0.196	0.114	0.21	4.3	000228b	5	
52290	0.197	0.036	0.18	4.34	000228b	6	
IR9-1	0.028	0.011	0.03	3.67	000228b	7	
IR9-2	0.189	0.099	0.24	4.82	000228b	8	
IR9-3	0.233	0.166	0.16	5.28	000228b	9	
IR9-4	1.19	0.304	1.03	6.56	000228b	10	
IR9-5	0.872	0.365	0.84	6.06	000228b	11	
IR9-6	0.185	0.099	0.29	4	000228b	12	
IR9-7	0.11	0.063	0.15	4.02	000228b	13	
IR9-8	0.084	0.039	0.08	3.93	000228b	14	
IR9-9	0.085	0.039	0.13	3.44	000228b	15	
IR9-10	0.103	0.047	0.1	3.45	000228b	16	
IR9-11	0.121	0.064	0.14	3.55	000228b	17	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR 10-1	0.06	0.029	0.13	3.53	000321a	1	
IR 10-2	0.186	0.074	0.22	3.66	000321a	2	
IR 10-3	0.204	0.061	0.25	3.4	000321a	3	
IR 10-4	0.203	0.056	0.18	3.6	000321a	4	
IR 10-5	0.127	0.039	0.22	3.83	000321a	5	
IR 10-6	0.112	0.044	0.16	3.2	000321a	6	
IR 10-7	0.102	0.037	0.15	3.3	000321a	7	
IR 10-8	0.082	0.034	0.13	3.51	000321a	8	
IR 10-9	0.081	0.041	0.14	3.4	000321a	9	
IR 10-10	0.094	0.049	0.12	3.18	000321a	10	
IR 10-11	0.064	0.03	0.11	3.47	000321a	11	
IR 10-12	0.066	0.029	0.19	3.23	000321a	12	
IR 11-1	0.032	0.017	0.05	3.61	000321a	13	
IR 11-2	0.042	0.024	0.05	3.39	000321a	14	
IR 11-3	0.08	0.057	0.1	3.52	000321a	15	
IR 11-4	0.112	0.059	0.14	3.41	000321a	16	
IR 11-5	0.099	0.055	0.11	3.41	000321a	17	
IR 11-6	0.107	0.042	0.15	3.3	000321a	18	
IR 11-7	0.096	0.032	0.11	3.27	000321a	19	
IR 11-8	0.081	0.03	0.09	3.07	000321a	20	
IR 11-9	0.089	0.034	0.09	2.91	000321a	21	
IR 11-10	0.076	0.028	0.1	2.75	000321a	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
121	0.032	0.013	0.03	3.57	000409a	1	IR SAMPLES
122	0.139	0.04	0.15	4.36	000409a	2	
123	0.089	0.027	0.15	4.1	000409a	3	
124	0.077	0.021	0.12	3.65	000409a	4	
125	0.056	0.016	0.06	3.33	000409a	5	
126	0.074	0.022	0.11	2.83	000409a	6	
127	0.061	0.023	0.08	3.12	000409a	7	
128	0.055	0.018	0.1	3.28	000409a	8	
129	0.044	0.013	0.06	3.32	000409a	9	
1210	0.05	0.015	0.07	3.13	000409a	10	
1211	0.05	0.013	0.07	2.87	000409a	11	
131	0.156	0.107	0.1	3.83	000409a	12	
132	0.262	0.192	0.28	3.17	000409a	13	
133	0.184	0.105	0.1	3.77	000409a	14	
134	0.125	0.071	0.19	4.39	000409a	15	
135	0.226	0.072	0.1	4.95	000409a	16	
136	0.425	0.027	0.34	6.84	000409a	17	
137	0.209	0.02	0.2	5.27	000409a	18	
138	0.135	0.006	0.12	3.51	000409a	19	
139	0.211	0.015	0.34	4.22	000409a	20	
1310	0.161	0.022	0.19	3.43	000409a	21	
1311	0.105	0.009	0.09	3.23	000409a	22	

Tag	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
1312	0.156	0.016	0.13	3.52	000409B	1	IR SAMPLES
1313	0.06	0.015	0.06	4.48	000409B	2	
1314	0.065	0.012	0.05	2.44	000409B	3	
141	0.035	0.024	0.01	5.11	000409B	4	
142	0.088	0.066	0.06	3.83	000409B	5	
143	0.11	0.084	0.08	3.74	000409B	6	
144	0.063	0.043	0.01	4.5	000409B	7	
145	0.103	0.074	0.05	4.09	000409B	8	
146	0.154	0.12	0.18	4.03	000409B	9	
147	0.066	0.031	0.04	3.95	000409B	10	
148	0.064	0.021	0.05	4.46	000409B	11	
149	0.089	0.022	0.06	4.15	000409B	12	
1410	0.039	0.013	0.04	3.39	000409B	13	
1411	0.061	0.014	0.05	2.07	000409B	14	
1412	0.131	0.017	0.39	1.55	000409B	15	
1413	0.126	0.026	0.12	2.64	000409B	16	
1414	0.231	0.027	0.58	4.23	000409B	17	
151	0.066	0.035	0.07	3.56	000409B	18	
152	0.086	0.048	0.1	4.31	000409B	19	
153	0.333	0.108	1.33	6.16	000409B	20	
154	0.148	0.022	0.24	3.41	000409B	21	
155	0.192	0.018	0.25	2.79	000409B	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
156	0.192	0.008	0.34	4.37	000409C	1	IR SAMPLES
157	0.2	0.013	0.37	6.21	000409C	2	
158	0.08	0.01	0.12	5.93	000409C	3	
159	0.084	0.027	0.15	5.18	000409C	4	
1510	0.111	0.024	0.19	5.49	000409C	5	
1511	0.111	0.027	0.14	4.43	000409C	6	
1512	0.125	0.025	0.23	4.09	000409C	7	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
21342	0.264	0.025	0.27	5.38	000415c	1	
21343	0.354	0.042	0.29	4.33	000415c	2	
21344	0.226	0.025	0.38	3.9	000415c	3	
21345	0.155	0.014	0.17	2.93	000415c	4	
21346	0.095	0.006	0.09	3.34	000415c	5	
21347	0.189	0.025	0.21	4.52	000415c	6	
21348	0.225	0.014	0.17	4.84	000415c	7	
IR 16-1	0.294	0.143	0.43	4.04	000415c	8	
IR 16-2	0.161	0.075	0.27	4.54	000415c	9	
IR 16-3	0.202	0.13	0.29	4.73	000415c	10	
IR 16-4	0.291	0.218	0.59	5.65	000415c	11	
IR 16-5	0.071	0.03	0.11	4.87	000415c	12	
IR 16-6	0.085	0.034	0.1	4.28	000415c	13	
IR 16-7	0.109	0.053	0.15	3.9	000415c	14	
IR 16-8	0.088	0.043	0.15	3.9	000415c	15	
IR 16-9	0.075	0.034	0.15	3.17	000415c	16	
IR 16-10	0.115	0.057	0.15	3.32	000415c	17	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR18-1	0.127	0.105	0.12	4	000421a	1	
IR18-2	0.193	0.154	0.18	3.95	000421a	2	
IR18-3	0.102	0.075	0.14	5.3	000421a	3	
IR18-4	0.089	0.05	0.12	5.66	000421a	4	
IR18-5	0.029	0.008	0.05	5.03	000421a	5	
IR18-6	0.062	0.013	0.05	5.66	000421a	6	
IR18-7	0.051	0.015	0.05	5.58	000421a	7	
IR18-8	0.119	0.019	0.19	5.01	000421a	8	
IR18-9	0.099	0.02	0.21	5.52	000421a	9	
IR18-10	0.086	0.009	0.12	5.04	000421a	10	
IR18-11	0.1	0.01	0.18	4.84	000421a	11	
IR18-12	0.095	0.007	0.22	5.03	000421a	12	
IR18-13	0.158	0.009	0.21	4.78	000421a	13	
IR18-14	0.161	0.008	0.24	4.58	000421a	14	
IR19-1	0.128	0.043	0.1	3.92	000421a	15	
IR19-2	0.04	0.024	0.04	2.15	000421a	16	
IR19-3	0.046	0.031	0.02	2.38	000421a	17	
IR19-4	0.052	0.033	0.04	3.3	000421a	18	
IR19-5	0.09	0.041	0.12	3.68	000421a	19	
IR20-1	0.123	0.084	0.12	3.97	000421a	20	
IR20-2	0.122	0.062	0.21	3.16	000421a	21	
IR20-3	0.315	0.011	0.3	3.7	000421a	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR20-4	0.169	0.008	0.09	3.9	000421b	1	
IR20-5	0.075	0.007	0.03	4.3	000421b	2	
IR20-6	0.084	0.004	0.06	3.97	000421b	3	
IR20-7	0.075	0.004	0.04	4.04	000421b	4	
IR20-8	0.081	0.006	0.06	4.51	000421b	5	
IR20-9	0.056	0.005	0.04	4.17	000421b	6	
IR20-10	0.108	0.01	0.11	3.74	000421b	7	
IR20-11	0.089	0.006	0.09	5.23	000421b	8	
IR20-12	0.072	0.005	0.08	4	000421b	9	
IR21-1	0.046	0.032	0.04	3.69	000421b	10	
IR21-2	0.072	0.055	0.11	3.79	000421b	11	
IR21-3	0.212	0.072	0.22	5.08	000421b	12	
IR21-4	0.165	0.08	0.13	3.54	000421b	13	
IR21-5	0.121	0.033	0.08	5.35	000421b	14	
IR21-6	0.095	0.015	0.09	4.87	000421b	15	
IR21-7	0.092	0.006	0.06	5.04	000421b	16	
IR21-8	0.156	0.013	0.15	4.85	000421b	17	
IR21-9	0.121	0.012	0.24	4.4	000421b	18	
IR21-10	0.081	0.019	0.19	4.33	000421b	19	
IR21-11	0.083	0.023	0.1	3.78	000421b	20	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
54315	0.239	0.007	0.33	4.79	000503b	1	
54316	0.094	0.004	0.18	3.69	000503b	2	
54317	0.083	0.003	0.2	3.63	000503b	3	
54318	0.233	0.015	0.32	3.81	000503b	4	
54319	0.09	0.004	0.12	4.17	000503b	5	
53380	0.041	0.013	0.06	4.78	000503b	6	
53381	0.051	0.021	0.06	5.49	000503b	7	
53382	0.088	0.033	0.09	5.59	000503b	8	
53383	0.098	0.031	0.11	5.58	000503b	9	
53384	0.091	0.022	0.12	4.74	000503b	10	
53385	0.081	0.018	0.09	4.42	000503b	11	
53386	0.057	0.033	0.06	2.72	000503b	12	
53387	0.091	0.024	0.09	4.96	000503b	13	
53388	0.065	0.011	0.07	4.93	000503b	14	
53389	0.089	0.033	0.09	4.91	000503b	15	
53390	0.05	0.026	0.04	3.17	000503b	16	
53391	0.059	0.014	0.04	4.56	000503b	17	
53392	0.075	0.015	0.07	5.11	000503b	18	
IR-22-1	0.117	0.065	0.11	3.43	000503b	19	
IR-22-2	0.158	0.101	0.12	4.31	000503b	20	
IR-22-3	0.105	0.071	0.13	3.68	000503b	21	
IR-22-4	0.08	0.05	0.06	2.48	000503b	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-21-12	0.121	0.022	0.11	4.08	000503c	1	
IR-21-13	0.094	0.015	0.09	3.8	000503c	2	
IR-21-14	0.094	0.011	0.06	4.48	000503c	3	
IR-22-05	0.157	0.072	0.15	2.79	000503c	4	
IR-22-06	0.166	0.021	0.16	2.93	000503c	5	
IR-22-07	0.138	0.018	0.1	3.42	000503c	6	
IR-22-08	0.115	0.017	0.09	4.1	000503c	7	
IR-22-09	0.081	0.017	0.07	4.1	000503c	8	
IR-22-10	0.057	0.012	0.05	3.6	000503c	9	
IR-22-11	0.067	0.013	0.06	2.49	000503c	10	
IR-22-12	0.062	0.012	0.06	2.3	000503c	11	
IR-23-01	0.037	0.015	0.05	4.05	000503c	12	
IR-23-02	0.021	0.009	0.03	3.76	000503c	13	
IR-23-03	0.043	0.028	0.1	3.36	000503c	14	
IR-23-04	0.225	0.021	0.48	4.07	000503c	15	
IR-23-05	0.242	0.018	0.32	3.4	000503c	16	
IR-23-06	0.099	0.007	0.08	3.19	000503c	17	
IR-23-07	0.075	0.004	0.06	4.37	000503c	18	
IR-23-08	0.081	0.004	0.07	4.84	000503c	19	
IR-23-09	0.125	0.014	0.11	4.51	000503c	20	
IR-23-10	0.091	0.012	0.09	4.35	000503c	21	
IR-23-11	0.147	0.015	0.14	4.35	000503c	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-23-12	0.123	0.021	0.12	4.19	000504c	1	
IR-23-12B	0.138	0.04	0.1	4.87	000504c	2	
IR-23-13	0.108	0.011	0.1	4.74	000504c	3	
IR-23-14	0.103	0.014	0.15	3.82	000504c	4	
IR-24-1	0.457	0.089	0.3	7.19	000504c	5	
IR-24-2	0.194	0.065	0.11	6.53	000504c	6	
IR-24-3	0.197	0.061	0.19	3.85	000504c	7	
IR-24-4	0.194	0.048	0.17	4	000504c	8	
IR-24-5	0.162	0.013	0.11	3.67	000504c	9	
IR-24-6	0.185	0.025	0.14	3.54	000504c	10	
IR-24-7	0.173	0.018	0.14	3.48	000504c	11	
IR-24-8	0.151	0.023	0.16	3.93	000504c	12	
IR-24-9	0.114	0.025	0.12	4.17	000504c	13	
IR-24-10	0.231	0.026	0.27	4.33	000504c	14	
IR-24-11	0.186	0.026	0.15	5.03	000504c	15	
IR-24-12	0.174	0.033	0.16	4.56	000504c	16	
IR-24-13	0.184	0.022	0.14	4.56	000504c	17	
IR-24-14	0.077	0.015	0.07	4.68	000504c	18	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
53613	0.594	0.492	1.2	5.39	000508d	1	
53614	0.356	0.275	0.74	5.11	000508d	2	
53615	0.41	0.335	0.72	5.13	000508d	3	
65025	0.474	0.257	0.97	6.11	000508d	4	
IR 25-2	0.092	0.027	0.11	3.16	000508d	5	
IR 25-3	0.165	0.052	0.14	4.42	000508d	6	
IR 25-4	0.184	0.03	0.16	4.35	000508d	7	
IR 25-5	0.193	0.032	0.2	4.35	000508d	8	
IR 25-7	0.152	0.029	0.24	2.89	000508d	9	
IR 25-10	0.137	0.03	0.24	3.25	000508d	10	
IR 26-1	0.119	0.029	0.07	2.4	000508d	11	
IR 26-6	0.157	0.059	0.1	2.97	000508d	12	
IR 27-3	0.137	0.048	0.12	3.15	000508d	13	
IR 28-1	0.086	0.004	0.11	3.48	000508d	14	
IR 29-1	0.058	0.001	0.1	2.31	000508d	15	
IR 29-2	0.068	0.001	0.09	3.71	000508d	16	
IR 30-4	0.082	0.006	0.07	3.37	000508d	17	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR 25-1	0.191	0.05	0.12	6.28	000509a	1	
IR 25-6	0.207	0.036	0.18	3.48	000509a	2	
IR 25-8	0.113	0.02	0.13	3.06	000509a	3	
IR 25-9	0.115	0.035	0.14	2.67	000509a	4	
IR 25-12	0.064	0.011	0.12	3.2	000509a	5	
IR 26-4	0.199	0.031	0.13	4.26	000509a	6	
IR 27-1	0.202	0.073	0.11	3.71	000509a	7	
IR 27-2	0.203	0.067	0.17	3.18	000509a	8	
IR 27-6	0.165	0.079	0.2	4.49	000509a	9	
IR 30-1	0.182	0.06	0.16	2.94	000509a	10	
IR 30-2	0.198	0.013	0.17	3.14	000509a	11	
IR 30-3	0.169	0.021	0.16	4.13	000509a	12	
IR 30-5	0.162	0.01	0.16	3.45	000509a	13	
IR 30-6	0.212	0.05	0.17	4.9	000509a	14	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR 25-11	0.107	0.037	0.17	2.62	000509b	1	
IR 25-13	0.09	0.03	0.09	3.9	000509b	2	
IR 25-14	0.1	0.035	0.11	3.84	000509b	3	
IR 26-2	0.166	0.019	0.05	3.04	000509b	4	
IR 26-3	0.222	0.022	0.11	2.92	000509b	5	
IR 26-5	0.109	0.034	0.04	3.63	000509b	6	
IR 27-4	0.202	0.103	0.15	3.24	000509b	7	
IR 27-5	0.207	0.095	0.22	3.72	000509b	8	
IR 28-2	0.142	0.003	0.14	3.43	000509b	9	
IR 28-3	0.074	0.002	0.05	2.87	000509b	10	
IR 28-4	0.077	0.001	0.11	2.94	000509b	11	
IR 28-5	0.065	0.001	0.07	2.69	000509b	12	
IR 28-6	0.072	0.001	0.09	3.72	000509b	13	
IR 29-3	0.089	0	0.21	3.85	000509b	14	
IR 29-4	0.152	0.003	0.34	3.72	000509b	15	
IR 29-5	0.154	0.002	0.25	3.84	000509b	16	
IR 29-6	0.121	0.003	0.17	4.28	000509b	17	
53423	0.286	0.155	0.29	5.76	000509b	18	
53424	0.287	0.076	0.55	4.74	000509b	19	
53425	0.923	0.039	1.11	4.81	000509b	20	
53801	0.86	0.056	1.43	3.89	000509b	21	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-32-1	0.15	0.065	0.14	3.01	000511a	1	
IR-32-20-45	0.125	0.067	0.11	2.43	000511a	2	
IR-32-3	0.151	0.065	0.15	3.63	000511a	3	
IR-32-4	0.194	0.073	0.22	2.83	000511a	4	
IR-32-5	0.149	0.064	0.16	3.94	000511a	5	
IR-32-6	0.109	0.043	0.13	3.64	000511a	6	
IR-33-1	0.084	0.007	0.13	2.87	000511a	7	
IR-33-2	0.06	0.003	0.11	2.65	000511a	8	
IR-33-3	0.128	0.005	0.17	3.39	000511a	9	
IR-33-4	0.121	0.003	0.19	2.94	000511a	10	
IR-33-5	0.08	0.003	0.09	2.61	000511a	11	
IR-34-1	0.2	0.009	0.15	3.11	000511a	12	
IR-34-2	0.232	0.026	0.17	3.07	000511a	13	
IR-34-3	0.232	0.052	0.3	3.22	000511a	14	
IR-34-4	0.479	0.059	0.4	3.98	000511a	15	
IR-34-5	0.268	0.02	0.33	4.95	000511a	16	
IR-34-6	0.193	0.017	0.21	3.59	000511a	17	
IR-35-1	0.2	0.008	0.25	3.46	000511a	18	
IR-35-2	0.128	0.005	0.13	3.46	000511a	19	
IR-35-3	0.195	0.005	0.23	3.65	000511a	20	
IR-35-4	0.21	0.019	0.21	2.76	000511a	21	
IR-35-5	0.096	0.007	0.11	3.43	000511a	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR 36-5	0.091	0.003	0.09	3.67	000516c	1	
IR 36-6	0.153	0.004	0.19	4.36	000516c	2	
IR 37-1	0.044	0.005	0.04	4.79	000516c	3	
IR 37-3	0.16	0.008	0.11	3.64	000516c	4	
IR 37-4	0.273	0.005	0.31	3.14	000516c	5	
IR 37-5	0.227	0.01	0.24	3.53	000516c	6	
IR 38-1	0.313	0.02	0.3	3.77	000516c	7	
IR 38-2	0.155	0.004	0.16	3.53	000516c	8	
IR 38-3	0.155	0.011	0.16	3.42	000516c	9	
IR 38-4	0.079	0.007	0.07	3.45	000516c	10	
IR 38-5	0.143	0.01	0.12	3.36	000516c	11	
IR 39-4	0.151	0.075	0.16	3.22	000516c	12	
IR 39-5	0.125	0.063	0.15	3.38	000516c	13	
IR 40-3	0.119	0.004	0.14	2.98	000516c	14	
IR 41-1	0.299	0.019	0.28	5.37	000516c	15	
IR 41-2	0.164	0.007	0.2	4.55	000516c	16	
IR 41-3	0.107	0.005	0.08	3.91	000516c	17	
IR 41-5	0.206	0.007	0.2	3.52	000516c	18	
IR 42-1	0.302	0.01	0.34	4.67	000516c	19	
IR 42-2	0.091	0.002	0.08	3.01	000516c	20	
IR 42-3	0.064	0.006	0.06	3.41	000516c	21	
IR 42-6	0.076	0.017	0.08	4.32	000516c	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
ir37-2	0.124	0.021	0.09	3.81	000516f	1	
ir37-6	0.191	0.019	0.15	3.37	000516f	2	
ir38-6	0.255	0.039	0.24	3.72	000516f	3	
ir39-1	0.083	0.052	0.09	2.48	000516f	4	
ir39-2	0.139	0.077	0.17	2.93	000516f	5	
ir39-3	0.112	0.066	0.12	2.79	000516f	6	
ir40-1	0.129	0.007	0.14	2.97	000516f	7	
ir40-2	0.093	0.003	0.1	2.65	000516f	8	
ir40-4	0.118	0.011	0.1	2.78	000516f	9	
ir40-5	0.101	0.009	0.11	2.6	000516f	10	
ir40-6	0.133	0.007	0.14	2.59	000516f	11	
ir41-4	0.091	0.004	0.09	3.5	000516f	12	
ir41-6	0.225	0.009	0.19	3.87	000516f	13	
ir42-4	0.06	0.016	0.06	3.24	000516f	14	
ir42-5	0.137	0.022	0.09	3.59	000516f	15	
65766	0.202	0.036	0.22	4.62	000516f	16	
65767	0.21	0.009	0.19	2.28	000516f	17	
65768	0.161	0.009	0.14	3.05	000516f	18	
65769	0.261	0.016	0.28	4.47	000516f	19	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-31-1	0.259	0.027	0.31	3.94	000517d	1	
IR-31-2	0.231	0.006	0.29	4.28	000517d	2	
IR-31-3	0.215	0.02	0.24	3.94	000517d	3	
IR-31-4	0.236	0.053	0.24	3.9	000517d	4	
IR-31-5	0.247	0.011	0.27	3.45	000517d	5	
IR-31-6	0.204	0.009	0.2	3.53	000517d	6	
IR-43-1	0.103	0.012	0.08	1.86	000517d	7	
IR-43-2	0.115	0.03	0.11	2.56	000517d	8	
IR-43-3	0.138	0.067	0.14	2.86	000517d	9	
IR-43-4	0.095	0.05	0.11	2.11	000517d	10	
IR-43-5	0.098	0.048	0.12	3.06	000517d	11	
IR-43-6	0.107	0.029	0.12	3.49	000517d	12	
IR-44-1	0.28	0.071	0.47	4.52	000517d	13	
IR-44-2	0.122	0.081	0.13	3.26	000517d	14	
IR-44-3	0.116	0.043	0.16	2.28	000517d	15	
IR-44-4	0.1	0.032	0.12	2.89	000517d	16	
IR-44-5	0.106	0.024	0.15	3.18	000517d	17	
IR-44-6	0.165	0.029	0.18	3.97	000517d	18	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR45-1	0.311	0.017	0.47	3.98	000520d	1	
IR45-2	0.053	0.002	0.06	3.28	000520d	2	
IR45-3	0.081	0.004	0.11	3.18	000520d	3	
IR45-4	0.075	0.005	0.17	3.83	000520d	4	
IR45-5	0.081	0.004	0.14	4.46	000520d	5	
IR45-6	0.106	0.008	0.2	3.85	000520d	6	
IR46-1	0.284	0.017	0.39	3.08	000520d	7	
IR46-2	0.326	0.022	0.5	4.16	000520d	8	
IR46-3	0.15	0.011	0.2	4.65	000520d	9	
IR46-4	0.243	0.019	0.34	4.45	000520d	10	
IR46-5	0.182	0.011	0.22	4.21	000520d	11	
IR46-6	0.153	0.009	0.23	3.46	000520d	12	
IR47-1	0.338	0.016	0.63	4.17	000520d	13	
IR47-2	0.113	0.006	0.13	4.62	000520d	14	
IR47-3	0.032	0.002	0.03	2.31	000520d	15	
IR47-4	0.021	0.001	0.02	2.18	000520d	16	
IR47-5	0.037	0.002	0.04	2.49	000520d	17	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-47-6	0.054	0.002	0.1	2.66	000525c	1	
IR-48-1	0.201	0.012	0.3	5.43	000525c	2	
IR-48-2	0.18	0.01	0.25	4.97	000525c	3	
IR-48-3	0.034	0.007	0.06	3.86	000525c	4	
IR-48-4	0.062	0.009	0.12	2.92	000525c	5	
IR-48-5	0.072	0.018	0.14	3.9	000525c	6	
IR-48-6	0.111	0.017	0.2	3.89	000525c	7	
IR-50-1	0.24	0.029	0.37	4.55	000525c	8	
IR-49-1	0.43	0.267	0.74	4.41	000525c	9	
IR-49-3	0.256	0.144	0.53	5.09	000525c	10	
IR-49-4	0.226	0.131	0.56	4.96	000525c	11	
IR-49-5	0.264	0.044	0.56	5.27	000525c	12	
IR-50-1	0.196	0.074	0.32	3.77	000525c	13	
IR-50-2	0.285	0.067	0.48	4.26	000525c	14	
IR-50-3	0.447	0.054	0.61	4.29	000525c	15	
IR-50-4	0.304	0.069	0.5	4.04	000525c	16	
IR-50-5	0.215	0.043	0.36	3.47	000525c	17	
IR-50-6	0.226	0.042	0.35	3.8	000525c	18	
IR-51-1	0.092	0.013	0.17	4.32	000525c	19	
IR-51-2	0.115	0.053	0.23	3.86	000525c	20	
IR-51-3	0.182	0.116	0.4	4.39	000525c	21	
IR-51-4	0.149	0.089	0.31	4.43	000525c	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR-51-5	0.331	0.26	0.57	5.04	000525d	1	
IR-51-6	0.222	0.091	0.43	4.79	000525d	2	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
IR 52-1	0.228	0.016	0.25	4.15	000601B	1	
IR 52-2	0.226	0.011	0.22	3.73	000601B	2	
IR 52-3	0.123	0.004	0.14	3.43	000601B	3	
IR 52-4	0.487	0.013	0.6	4.18	000601B	4	
IR 52-5	0.096	0.009	0.08	4.68	000601B	5	
IR 52-6	0.164	0.019	0.26	4.21	000601B	6	
IR 52-7	0.265	0.195	0.42	6.27	000601B	7	
IR 53-1	0.287	0.009	0.25	5.76	000601B	8	
IR 53-2	0.243	0.009	0.19	5.28	000601B	9	
IR 53-3	0.291	0.009	0.26	4.73	000601B	10	
IR 53-4	0.258	0.005	0.31	3.33	000601B	11	
IR 53-5	0.391	0.012	0.6	4.7	000601B	12	
IR 53-6	0.101	0.005	0.11	4.92	000601B	13	
IR 54-1	0.185	0.005	0.19	4.73	000601B	14	
IR 54-2	0.278	0.007	0.29	5.09	000601B	15	
IR 54-3	0.174	0.008	0.19	5.61	000601B	16	
IR 54-4	0.189	0.007	0.2	4.09	000601B	17	
IR 54-5	0.165	0.006	0.18	4.13	000601B	18	
IR 55-1	0.119	0.005	0.13	4.45	000601B	19	
IR 55-2	0.063	0.004	0.06	3.83	000601B	20	
IR 55-3	0.071	0.002	0.09	3.86	000601B	21	
IR 55-4	0.057	0.002	0.05	4.36	000601B	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
65977	0.241	0.005	0.25	4.84	000602b	1	
65978	0.162	0.004	0.3	4.42	000602b	2	
65979	0.225	0.011	0.23	3.98	000602b	3	
65980	0.283	0.008	0.26	4.02	000602b	4	
65981	0.276	0.007	0.29	4.2	000602b	5	
65982	0.275	0.007	0.27	4.42	000602b	6	
65983	0.278	0.008	0.34	4.91	000602b	7	
65984	0.345	0.02	0.54	4.54	000602b	8	
IR-55-5	0.114	0.004	0.15	3.8	000602b	9	
IR-55-6	0.194	0.01	0.17	3.64	000602b	10	
IR-56-1	0.095	0.008	0.13	3.68	000602b	11	
IR-56-2	0.083	0.009	0.09	4.22	000602b	12	
IR-56-3	0.076	0.006	0.09	4.48	000602b	13	
IR-56-4	0.069	0.006	0.09	4.79	000602b	14	
IR-56-5	0.066	0.005	0.06	4.19	000602b	15	
IR-56-6	0.063	0.005	0.08	4.63	000602b	16	
IR-57-1	0.486	0.013	0.6	4.02	000602b	17	
IR-57-2	0.167	0.006	0.26	4.35	000602b	18	
IR-57-3	0.382	0.016	0.46	3.53	000602b	19	
IR-57-4	0.249	0.01	0.32	4.78	000602b	20	
IR-57-5	0.14	0.006	0.19	4.05	000602b	21	
IR-57-6	0.531	0.013	0.8	3.41	000602b	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
580001	0.497	0.339	0.56	7.83	000621D	1	
580002	0.124	0.038	0.06	3.52	000621D	2	
580003	0.106	0.039	0.03	4.23	000621D	3	
580004	0.044	0.014	0.01	2.65	000621D	4	
580005	0.008	0.002	0.01	2.92	000621D	5	
580006	0.074	0.008	0.01	2.88	000621D	6	
590001	0.301	0.115	0.43	5.8	000621D	7	
590002	0.296	0.105	0.34	6.45	000621D	8	
590003	0.242	0.079	0.38	4.53	000621D	9	
590004	0.1	0.021	0.09	2.91	000621D	10	
590005	0.021	0.008	0.02	2.43	000621D	11	
590006	0.027	0.008	0.03	2.86	000621D	12	
600001	0.171	0.12	0.14	4.51	000621D	13	
600002	0.115	0.033	0.06	3.91	000621D	14	
600003	0.04	0.007	0.03	3.16	000621D	15	
600004	0.025	0.002	0.02	3.06	000621D	16	
600005	0.019	0.002	0.02	3.23	000621D	17	
600006	0.019	0.001	0.01	4.1	000621D	18	
610001	0.066	0.03	0.02	2.09	000621D	19	
610002	0.025	0.014	0.01	2.19	000621D	20	
610003	0.004	0.001	0.01	2.23	000621D	21	
610004	0.017	0.001	0.01	2.87	000621D	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
610005	0.073	0.005	0.02	2.94	000622a	1	
610006	0.038	0.005	0.01	3.25	000622a	2	
620001	0.046	0.018	0.01	3.3	000622a	3	
620002	0.031	0.002	0.01	2.95	000622a	4	
620003	0.039	0.007	0.01	2.51	000622a	5	
620004	0.07	0.013	0.01	3.49	000622a	6	
620005	0.095	0.008	0.01	5.67	000622a	7	
620006	0.086	0.008	0.02	5.29	000622a	8	
630001	0.167	0.093	0.32	6.9	000622a	9	
630002	0.356	0.212	0.46	6.42	000622a	10	
630003	0.42	0.165	0.73	6.23	000622a	11	
630004	0.178	0.049	0.23	6.26	000622a	12	
630005	0.188	0.034	0.24	6.17	000622a	13	
630006	0.214	0.05	0.26	6.01	000622a	14	
640001	0.245	0.117	0.39	6.98	000622a	15	
640002	0.194	0.078	0.33	6.48	000622a	16	
640003	0.207	0.035	0.47	6.26	000622a	17	
640004	0.173	0.026	0.78	6.58	000622a	18	
640005	0.312	0.021	0.5	5.46	000622a	19	
640006	0.309	0.041	0.56	6.72	000622a	20	
650001660	0.302	0.191	0.45	6.72	000622a	21	
650002	0.213	0.09	0.27	5.83	000622a	22	

Tag	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
650003	0.361	0.029	0.66	7.12	000622b	1	
650004	0.746	0.04	0.84	8.7	000622b	2	
650005	0.366	0.04	0.74	6.66	000622b	3	
650006	0.417	0.035	0.64	6.57	000622b	4	
660001	0.317	0.201	0.67	9.03	000622b	5	
660002	0.333	0.227	0.45	7.54	000622b	6	
660003	0.156	0.067	0.37	5.63	000622b	7	
53757	0.26	0.031	0.3	4.69	000622b	8	
53758	0.124	0.01	0.12	4.39	000622b	9	
53759	0.182	0.014	0.16	4.06	000622b	10	
53760	0.124	0.011	0.15	3.31	000622b	11	
53761	0.314	0.023	0.4	4.17	000622b	12	
53762	0.149	0.01	0.18	4.57	000622b	13	
53763	0.224	0.013	0.23	3.55	000622b	14	
53764	0.211	0.015	0.23	3.84	000622b	15	
66432	0.131	0.092	0.16	5.08	000622b	16	
66433	0.238	0.16	0.35	5.16	000622b	17	
66434	0.402	0.105	0.58	5.12	000622b	18	
66435	0.2	0.026	0.43	3.28	000622b	19	
66436	0.301	0.092	0.33	5.62	000622b	20	
66437	0.211	0.055	0.24	3.19	000622b	21	
66438	0.303	0.043	0.28	5.56	000622b	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
660004	0.93	0.073	1.16	6.39	000624a	1	test hole
660005	0.452	0.036	0.7	5.48	000624a	2	test hole
660006	0.122	0.034	0.39	3.29	000624a	3	test hole
670001	0.197	0.124	0.27	6.36	000624a	4	test hole
670002	0.278	0.164	0.38	7.08	000624a	5	test hole
670003	0.223	0.109	0.35	6.79	000624a	6	test hole
670004	0.2	0.098	0.34	6.53	000624a	7	test hole
670005	0.194	0.072	0.36	6.75	000624a	8	test hole
670006	0.205	0.054	0.26	6.05	000624a	9	test hole
680001	0.03	0.015	0.03	2.63	000624a	10	test hole
680002	0.046	0.045	0.02	1.87	000624a	11	test hole
680003	0.056	0.043	0	2.35	000624a	12	test hole
680004	0.035	0.023	0.01	2.55	000624a	13	test hole
680005	0.027	0.012	0.02	2.6	000624a	14	test hole
680006	0.018	0.007	0.04	2.69	000624a	15	test hole

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
690001	0.093	0.067	0.18	3.17	000626e	1	test holes
690002	0.093	0.07	0.09	3.09	000626e	2	
690003	0.144	0.051	0.29	5.2	000626e	3	
690004	0.117	0.022	0.28	5.37	000626e	4	
690005	0.102	0.021	0.24	4.89	000626e	5	
690006	0.088	0.023	0.21	5.78	000626e	6	
700001	0.359	0.172	0.59	4.83	000626e	7	
700002	0.314	0.183	0.43	5.43	000626e	8	
700003	0.212	0.081	0.26	6.58	000626e	9	
700004	0.083	0.012	0.11	5.14	000626e	10	
700005	0.033	0.005	0.02	4.82	000626e	11	
700006	0.039	0.005	0.02	5.15	000626e	12	
710001	0.298	0.042	0.39	2.87	000626e	13	
710002	0.243	0.028	0.32	2.82	000626e	14	
710003	0.162	0.015	0.2	2.73	000626e	15	
710004	0.118	0.017	0.11	3.85	000626e	16	
710005	0.13	0.007	0.14	4.24	000626e	17	
710006	0.242	0.015	0.28	4.78	000626e	18	
720001	0.211	0.013	0.22	3.48	000626e	19	
720002	0.135	0.005	0.2	3.69	000626e	20	
720003	0.331	0.017	0.6	4.89	000626e	21	
720004	0.137	0.011	0.2	2.84	000626e	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
720005	0.21	0.007	0.22	3.6	000626f	1	all samples test holes
720006	0.06	0.001	0.05	2.75	000626f	2	
730001	0.426	0.019	0.54	6.04	000626f	3	
730002	0.249	0.007	0.31	5.02	000626f	4	
730003	0.253	0.009	0.27	4.8	000626f	5	
730004	0.246	0.009	0.27	4.22	000626f	6	
730005	0.216	0.006	0.26	5.18	000626f	7	
730006	0.172	0.004	0.28	5.05	000626f	8	
740001	0.337	0.092	0.34	5.16	000626f	9	
740002	0.379	0.014	0.57	5.37	000626f	10	
740003	0.311	0.014	0.33	4.43	000626f	11	
740004	0.264	0.02	0.31	4.93	000626f	12	
740005	0.262	0.013	0.29	4.31	000626f	13	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
70542	0.22	0.023	0.23	3.36	000628d	1	
70543	0.255	0.017	0.24	3.42	000628d	2	
70544	0.157	0.005	0.16	3.49	000628d	3	
70545	0.139	0.006	0.14	3.24	000628d	4	
70546	0.17	0.006	0.17	3.22	000628d	5	
70547	0.411	0.015	0.3	3.44	000628d	6	
70548	0.171	0.009	0.15	3.58	000628d	7	
740006	0.14	0.007	0.13	4.39	000628d	8	
750001	0.449	0.044	0.55	3.46	000628d	9	
750002	0.317	0.015	0.47	4.14	000628d	10	
750003	0.338	0.025	0.43	4.2	000628d	11	
750004	0.268	0.029	0.36	4.04	000628d	12	
750005	0.255	0.027	0.37	4.83	000628d	13	
750006	0.287	0.031	0.35	4.34	000628d	14	
760001	0.113	0.045	0.13	5.52	000628d	15	
760002	0.028	0.007	0.06	5.06	000628d	16	
760003	0.038	0.005	0.07	5.18	000628d	17	
760004	0.044	0.003	0.07	5.09	000628d	18	
760005	0.02	0.001	0.03	5.38	000628d	19	
760006	0.019	0.001	0.04	5.14	000628d	20	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
770001	0.07	0.03	0.34	4.05	000705b	1	
770002	0.106	0.035	0.39	4.85	000705b	2	
770003	0.199	0.029	0.51	5.72	000705b	3	
770004	0.153	0.022	0.36	6	000705b	4	
770005	0.133	0.021	0.37	5.15	000705b	5	
770006	0.245	0.018	0.32	4.82	000705b	6	
780001	0.147	0.09	0.13	3.01	000705b	7	
780002	0.118	0.054	0.24	4.13	000705b	8	
780003	0.264	0.068	0.47	4.86	000705b	9	
780004	0.452	0.062	0.94	5.58	000705b	10	
780005	0.343	0.056	0.57	5.83	000705b	11	
780006	0.209	0.075	0.24	4.7	000705b	12	
790001	0.205	0.119	0.28	7.52	000705b	13	
790002	0.509	0.127	0.97	6.15	000705b	14	
790003	0.519	0.026	0.73	7.26	000705b	15	
790004	0.497	0.047	0.87	8.79	000705b	16	
790005	0.329	0.028	0.53	8.23	000705b	17	
790006	0.417	0.03	0.48	8.44	000705b	18	
800001	0.045	0.017	0.08	3.18	000705b	19	
800002	0.048	0.021	0.06	3.44	000705b	20	
800003	0.018	0.002	0.03	3.51	000705b	21	
800004	0.013	0.001	0.04	2.7	000705b	22	
800005	0.047	0.009	0.11	3.35	000705b	23	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
800006	0.055	0.011	0.14	3.06	000707e	1	TEST HOLES
810001	0.015	0.005	0.05	2.95	000707e	2	
810002	0.025	0.007	0.08	2.9	000707e	3	
810003	0.041	0.006	0.11	3.29	000707e	4	
810004	0.02	0.002	0.09	2.79	000707e	5	
810005	0.021	0.004	0.09	2.9	000707e	6	
810006	0.028	0.003	0.09	3.31	000707e	7	
820001	0.129	0.071	0.11	7.75	000707e	8	
820002	0.117	0.064	0.14	5.62	000707e	9	
820003	0.054	0.016	0.06	4.38	000707e	10	
820004	0.11	0.025	0.14	5.3	000707e	11	
820005	0.085	0.025	0.12	6.43	000707e	12	
820006	0.05	0.009	0.08	3.61	000707e	13	
830001	0.035	0.014	0.07	5.08	000707e	14	
830002	0.061	0.028	0.14	5.29	000707e	15	
830003	0.047	0.012	0.09	3.68	000707e	16	
830004	0.066	0.008	0.13	3.93	000707e	17	
830005	0.063	0.008	0.11	4.61	000707e	18	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
870003	0.032	0.005	0.08	2.62	000722a	1	TEST HOLES
870004	0.046	0.003	0.1	3.63	000722a	2	
870005	0.034	0.003	0.06	3.3	000722a	3	
870006	0.013	0.001	0.02	2.63	000722a	4	
880001	0.016	0.006	0.02	2.6	000722a	5	
880002	0.028	0.007	0.02	3.39	000722a	6	
880003	0.03	0.003	0.03	3.86	000722a	7	
880004	0.009	0.002	0.01	2.45	000722a	8	
880005	0.01	0.002	0.02	2.96	000722a	9	
880006	0.004	0.001	0.01	2.56	000722a	10	
890001	0.01	0.005	0.02	2.38	000722a	11	
890002	0.078	0.043	0.12	3.47	000722a	12	
890003	0.061	0.025	0.08	3.25	000722a	13	
890004	0.017	0.007	0.02	2.9	000722a	14	
890005	0.098	0.007	0.15	3.87	000722a	15	
890006	0.08	0.005	0.11	3.58	000722a	16	
900001	0.015	0.006	0.03	2.76	000722a	17	
900002	0.016	0.004	0.03	3.2	000722a	18	
900003	0.018	0.003	0.03	4.16	000722a	19	
900004	0.016	0.002	0.02	4.31	000722a	20	
900005	0.016	0.003	0.01	3.96	000722a	21	
900006	0.02	0.003	0.02	3.09	000722a	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
910001	0.008	0.004	0.03	3.28	000722B	1	TEST HOLES
910002	0.014	0.007	0.02	3.7	000722B	2	
910003	0.021	0.005	0.05	3.27	000722B	3	
910004	0.003	0.001	0.01	2.43	000722B	4	
910005	0.004	0.001	0.01	2.81	000722B	5	
910006	0.015	0.001	0.04	4.11	000722B	6	
920001	0.244	0.166	0.51	7.8	000722B	7	
920002	0.251	0.145	0.48	6.79	000722B	8	
920003	0.129	0.069	0.22	6.84	000722B	9	
920004	0.171	0.048	0.26	7.34	000722B	10	
920005	0.139	0.047	0.33	7.81	000722B	11	
920006	0.13	0.045	0.26	6.43	000722B	12	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
960002	0.042	0.027	0.13	2.04	000730D	1	
960003	0.01	0.008	0.02	2.44	000730D	2	
960004	0.015	0.004	0.02	2.56	000730D	3	
960005	0.057	0.032	0.04	3.39	000730D	4	
960006	0.02	0.009	0.04	2.72	000730D	5	
970001	0.115	0.066	0.31	6.05	000730D	6	
970002	0.134	0.063	0.41	5.99	000730D	7	
970004	0.161	0.04	0.35	6.09	000730D	8	
970005	0.139	0.041	0.43	6	000730D	9	
970006	0.103	0.04	0.26	5.68	000730D	10	
980001	0.126	0.08	0.05	3.31	000730D	11	
980002	0.108	0.064	0.05	3.16	000730D	12	
980003	0.069	0.037	0.07	2.92	000730D	13	
990002	0.017	0.008	0.04	2.54	000730D	14	
990003	0.027	0.002	0.07	3.67	000730D	15	
990004	0.01	0.001	0.02	2.39	000730D	16	
990005	0.009	0.005	0.04	2.56	000730D	17	
990006	0.008	0.001	0.05	2.39	000730D	18	
1000001	0.01	0.005	0.02	2.03	000730D	19	
1000002	0.004	0.003	0.02	1.58	000730D	20	
1000003	0.009	0.009	0.05	2.26	000730D	21	
1000004	0.008	0.001	0.03	1.91	000730D	22	

Tag .	Cu-tot (%)	Cu-ns (%)	Au (g/t)	Fe-tot (%)	File Name	Posn	comments
930001	0.043	0.027	0.08	2.73	000731B	1	
930002	0.035	0.018	0.07	3.2	000731B	2	
930003	0.029	0.014	0.03	2.63	000731B	3	
930004	0.013	0.002	0.01	2.57	000731B	4	
930005	0.03	0.011	0.08	2.66	000731B	5	
930006	0.021	0.009	0.09	4.11	000731B	6	
940001	0.078	0.051	0.1	3.39	000731B	7	
940002	0.043	0.031	0.06	2.73	000731B	8	
940003	0.039	0.019	0.14	3.38	000731B	9	
940004	0.032	0.01	0.07	3.22	000731B	10	
940005	0.058	0.006	0.21	2.44	000731B	11	
940006	0.168	0.007	0.16	2.02	000731B	12	
950001	0.025	0.009	0.07	1.31	000731B	13	
950002	0.039	0.024	0.23	1.19	000731B	14	
950003	0.311	0.115	0.42	1.81	000731B	15	
950004	0.057	0.016	0.13	3.64	000731B	16	
950005	0.024	0.007	0.06	4.59	000731B	17	
950006	0.03	0.003	0.05	4.1	000731B	18	
960001	0.054	0.037	0.07	2.17	000731B	19	
960005	0.018	0.006	0.07	3.13	000731B	20	
970003	0.152	0.053	0.45	5.85	000731B	21	
980004	0.052	0.033	0.04	3.32	000731B	22	
990001	0.034	0.019	0.14	3.37	000731B	23	