Report on Diamond Drilling at the Minto Property on DEF and MINTO Quartz Mining Claims Performed 6 August 2009 to 14 Aug 2009

Grant Number	Label	Group
Y62007	DEF 62	GROUP-1
Y62009	DEF 64	GROUP-1
Y62011	DEF 66	GROUP-1
Y62013	DEF 68	GROUP-1
Y62016 to Y62023	DEF 71 to 78	GROUP-1
Y61988 to Y61993	DEF 43 to 48	GROUP-1
Y61998 to Y62003	DEF 53 to 58	GROUP-1
Y62008	DEF 63	GROUP-1
Y62010	DEF 65	GROUP-1
Y62012	DEF 67	GROUP-1
Y61714	DEF 22	GROUP-1
Y61984 to Y61987	DEF 39 to 42	GROUP-1
Y61994 to Y61997	DEF 49 to 52	GROUP-1
Y62004	DEF 59	GROUP-1
Y62006	DEF 61	GROUP-1
Y61702	DEF 10	GROUP-1
Y61704	DEF 12	GROUP-1
Y61715 to Y61722	DEF 23 to 30	GROUP-1
Y62005	DEF 60	GROUP-1
Y62014, Y62015	DEF 69, DEF 70	GROUP-1
Y76954 to Y76956	DEF 85FR to 87FR	GROUP-1

Grant Number	Label	Group
Y61711 to Y61713	DEF 19 to 21	GROUP-1
Y61980, Y61981	DEF 35, DEF 36	GROUP-1
Y62303 to Y62307	MINTO 72 to 77	GROUP-1
Y62309	MINTO 79	GROUP-1
Y61920	MINTO 31	GROUP-1
Y61922	MINTO 33	GROUP-1
Y62308	MINTO 78	GROUP-1
Y62310 to Y62314	MINTO 80 to 84	GROUP-1
Y78024	MINTO 96	GROUP-1
Y61918 to Y61933	MINTO 27 to 30	GROUP-1
Y62315 to Y62318	MINTO 85 to 88	GROUP-1
Y78025	MINTO 97	GROUP-1
Y61906, Y61907	MINTO 19, MINTO 20	GROUP-1
Y61910, Y61911	MINTO 37, MINTO 38	GROUP-1
Y61914 to Y61917	MINTO 23 to 26	GROUP-1
Y61926 to Y61929	MINTO 41 to 44	GROUP-1
Y62319	MINTO 89	GROUP-1
Y77310	MINTO 94FR	GROUP-1
Y77311	MINTO 95FR	GROUP-1

All Claims Held 100% by Minto Explorations Ltd

Located in the Whitehorse Mining District
on NTS 1:50,000 Map Sheet 115 I/ 11

Centered at the following Co-ordinates:

384 600 East, 6945300 North (UTM NAD 83, Zone 8)
or
-137° 14' 57.98", 62° 37' 13.17" (Lat/Long, WGS 84)

Report Prepared by Brian Willett, Senior Project Geologist, Minto Explorations Ltd.

SUMMARY

The Minto project is located in the Whitehorse Mining District of the Yukon Territory. Minto Explorations Ltd., a wholly owned subsidiary of Capstone Mining Corp. (Capstone), owns 245 claims covering 4372 hectares within NTS Map Sheet 115I/11. Work reported herein covers a total of 98 claims. The property includes a high grade copper-gold open pit mine.

In August 2009, Capstone conducted exploration diamond drilling on two geophysical targets within the Minto and DEF claims. Drillhole 09SWC534 was drilled to test a magnetic-chargeability anomaly known as Anomaly B, located approximately 3km north of the Minto deposit. Drillhole 09SWC535 was drilled to test a strong airborne magnetic anomaly, Anomaly D, located approximately 2.2km north-northeast of the Minto deposit. Although both drillholes intersected thick interval of favourable foliated granodiorite which hosts economic copper-gold mineralization on the Minto property, assay results were at best only geochemically anomalous. Very minor bornite and chalcopyrite were noted in both drillholes, and trace malachite and native copper was observed in 09SWC535. The magnetic anomalies were also not sufficiently explained.

Anomalies B and D remain priority targets for future drilling. A recently completed pole-dipole survey completed over Anomaly B will largely direct future drilling; 3-D modeling of the survey results is currently underway. It is anticipated that the same survey will be completed on Anomaly D in 2010.

Expenditures for reported 2009 work on the 98 claims is $ **93,354.37.**

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PROPERTY DESCRIPTION AND ACCESS

The Minto project is located 240km northwest of Whitehorse, Yukon (Figure 1) in the Whitehorse Mining Division on NTS map sheet 115 I/11.

The Minto mine property is wholly owned by Minto Explorations Ltd., a subsidiary of Capstone Mining Corp. It is an active minesite that is accessed by a 28.8km all weather gravel road (utilizing a barge or ice road to cross the Yukon River in summer and winter) or via a gravel airstrip. Minto mine is a year-round operation comprised of an open pit and milling operation using conventional crushing, grinding and flotation methods to produce copper concentrates with significant gold and silver credits.

Figure 1 – Minto Project Location

TENURE DESCRIPTION

The Minto project consists of 164 quartz claims, quartz claim fractions, quartz leases and quartz lease fractions (Figure 2). The registered owner of the claims is Minto Explorations Ltd. All claims are currently in good standing.

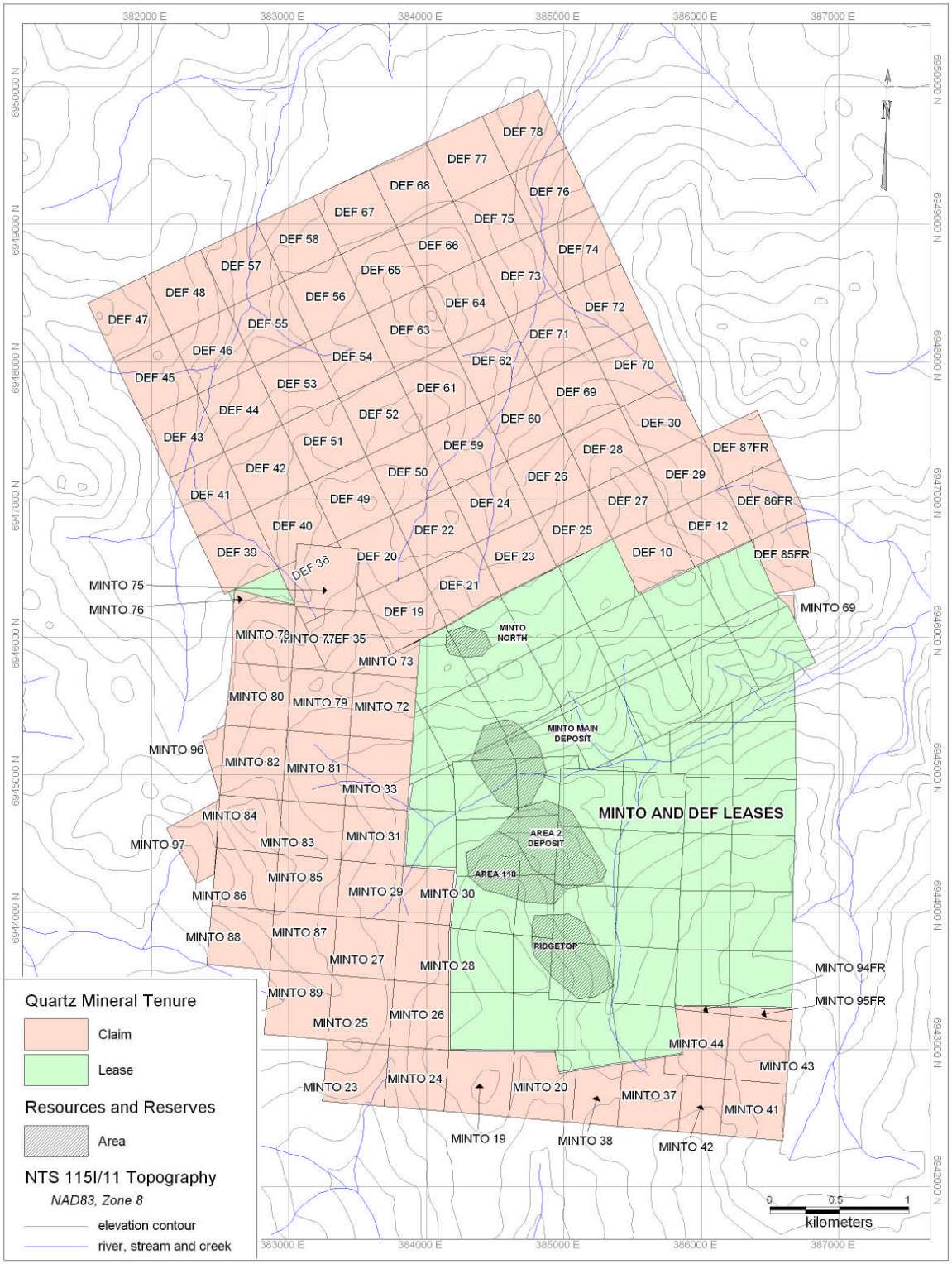

Figure 2a – Minto Project Claims Map - Claim Names

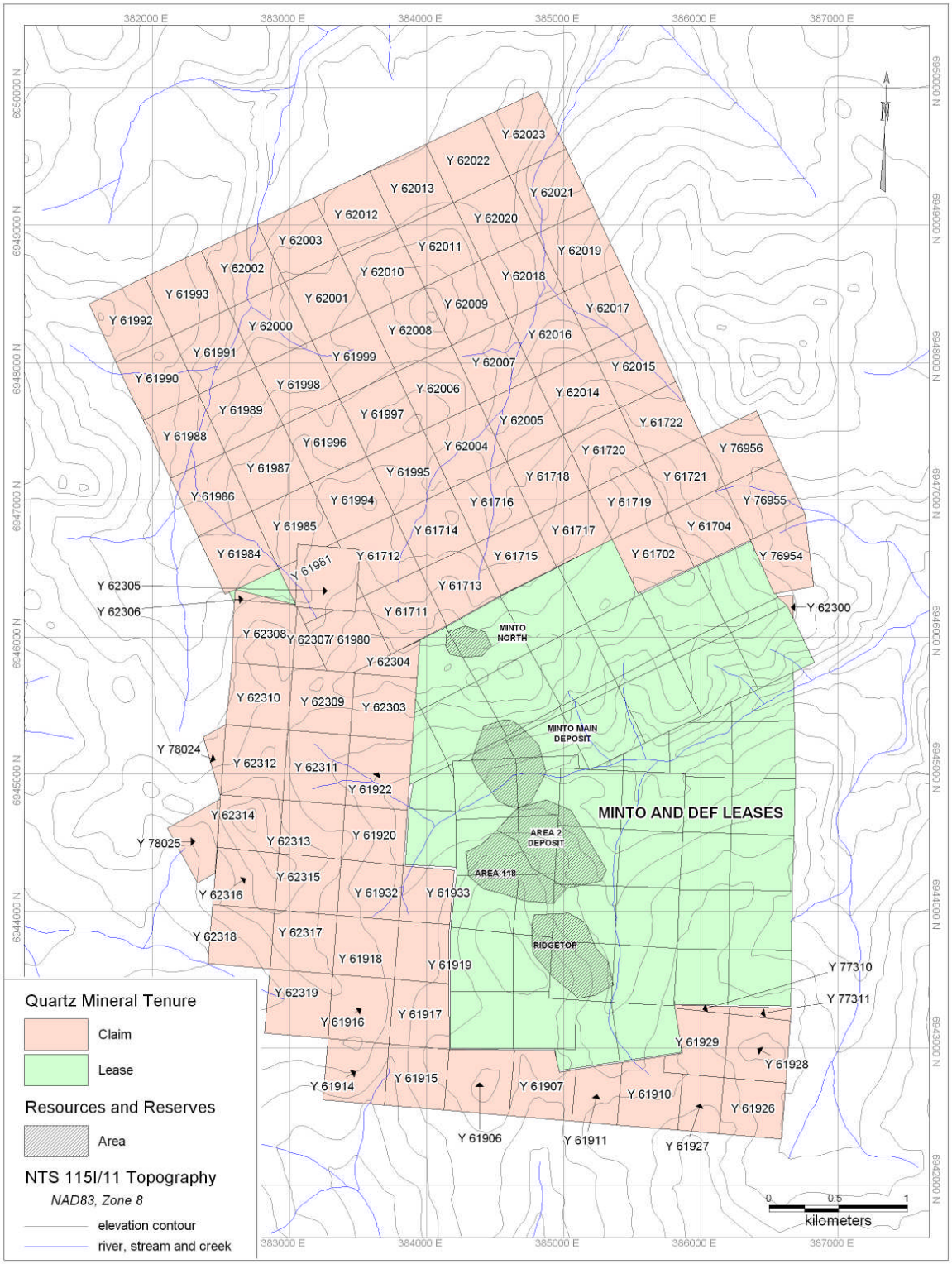

Figure 2b – Minto Project Claims Map - Grant Numbers

A total of 98 DEF and MINTO claims are covered by this report. Claims listed in Table 1 below are grouped for the purposes of applying work expenditures as reported.

Table 1: Description of Claims Covered by this Report

GRANT #	Label	Acres	Owner / Work Performed by	Anniversary
Y62007	DEF 62	52.42	Minto Explorations Ltd.	1 March 2013
Y62009	DEF 64	52.40	Minto Explorations Ltd.	1 March 2013
Y62011	DEF 66	52.38	Minto Explorations Ltd.	1 March 2013
Y62013	DEF 68	52.36	Minto Explorations Ltd.	1 March 2013
Y62016	DEF 71	52.43	Minto Explorations Ltd.	1 March 2013
Y62017	DEF 72	52.44	Minto Explorations Ltd.	1 March 2013
Y62018	DEF 73	52.41	Minto Explorations Ltd.	1 March 2013
Y62019	DEF 74	52.42	Minto Explorations Ltd.	1 March 2013
Y62020	DEF 75	52.39	Minto Explorations Ltd.	1 March 2013
Y62021	DEF 76	52.41	Minto Explorations Ltd.	1 March 2013
Y62022	DEF 77	52.37	Minto Explorations Ltd.	1 March 2013
Y62023	DEF 78	52.39	Minto Explorations Ltd.	1 March 2013
Y61988	DEF 43	51.16	Minto Explorations Ltd.	1 March 2013
Y61989	DEF 44	53.54	Minto Explorations Ltd.	1 March 2013
Y61990	DEF 45	51.62	Minto Explorations Ltd.	1 March 2013
Y61991	DEF 46	53.05	Minto Explorations Ltd.	1 March 2013
Y61992	DEF 47	52.07	Minto Explorations Ltd.	1 March 2013
Y61993	DEF 48	52.56	Minto Explorations Ltd.	1 March 2013
Y61998	DEF 53	52.37	Minto Explorations Ltd.	1 March 2013
Y61999	DEF 54	52.38	Minto Explorations Ltd.	1 March 2013
Y62000	DEF 55	52.35	Minto Explorations Ltd.	1 March 2013
Y62001	DEF 56	52.36	Minto Explorations Ltd.	1 March 2013
Y62002	DEF 57	52.33	Minto Explorations Ltd.	1 March 2013
Y62003	DEF 58	52.34	Minto Explorations Ltd.	1 March 2013
Y62008	DEF 63	52.39	Minto Explorations Ltd.	1 March 2013
Y62010	DEF 65	52.37	Minto Explorations Ltd.	1 March 2013
Y62012	DEF 67	52.35	Minto Explorations Ltd.	1 March 2013
Y61714	DEF 22	49.92	Minto Explorations Ltd.	1 March 2013
Y61984	DEF 39	50.25	Minto Explorations Ltd.	1 March 2013
Y61985	DEF 40	54.53	Minto Explorations Ltd.	1 March 2013
Y61986	DEF 41	50.71	Minto Explorations Ltd.	1 March 2013
Y61987	DEF 42	54.03	Minto Explorations Ltd.	1 March 2013
Y61994	DEF 49	52.41	Minto Explorations Ltd.	1 March 2013
Y61995	DEF 50	52.42	Minto Explorations Ltd.	1 March 2013
Y61996	DEF 51	52.39	Minto Explorations Ltd.	1 March 2013
Y61997	DEF 52	52.40	Minto Explorations Ltd.	1 March 2013
Y62004	DEF 59	52.43	Minto Explorations Ltd.	1 March 2013
Y62006	DEF 61	52.41	Minto Explorations Ltd.	1 March 2013

GRANT #	Label	Acres	Owner / Work Performed by	Anniversary
Y61702	DEF 10	49.14	Minto Explorations Ltd.	1 March 2013
Y61704	DEF 12	49.29	Minto Explorations Ltd.	1 March 2013
Y61715	DEF 23	46.40	Minto Explorations Ltd.	1 March 2013
Y61716	DEF 24	49.91	Minto Explorations Ltd.	1 March 2013
Y61717	DEF 25	45.00	Minto Explorations Ltd.	1 March 2013
Y61718	DEF 26	49.92	Minto Explorations Ltd.	1 March 2013
Y61719	DEF 27	44.29	Minto Explorations Ltd.	1 March 2013
Y61720	DEF 28	49.92	Minto Explorations Ltd.	1 March 2013
Y61721	DEF 29	44.38	Minto Explorations Ltd.	1 March 2013
Y61722	DEF 30	49.95	Minto Explorations Ltd.	1 March 2013
Y62005	DEF 60	52.44	Minto Explorations Ltd.	1 March 2013
Y62014	DEF 69	52.45	Minto Explorations Ltd.	1 March 2013
Y62015	DEF 70	52.46	Minto Explorations Ltd.	1 March 2013
Y76954	DEF 85FR	42.48	Minto Explorations Ltd.	1 March 2013
Y76955	DEF 86FR	47.65	Minto Explorations Ltd.	1 March 2013
Y76956	DEF 87FR	42.95	Minto Explorations Ltd.	1 March 2013
Y61711	DEF 19	51.56	Minto Explorations Ltd.	1 March 2013
Y61712	DEF 20	49.91	Minto Explorations Ltd.	1 March 2013
Y61713	DEF 21	48.81	Minto Explorations Ltd.	1 March 2013
Y61980	DEF 35	54.87	Minto Explorations Ltd.	1 March 2013
Y61981	DEF 36	52.17	Minto Explorations Ltd.	1 March 2013
Y62303	MINTO 72	51.68	Minto Explorations Ltd.	1 March 2013
Y62304	MINTO 73	16.30	Minto Explorations Ltd.	1 March 2013
Y62305	MINTO 75	0.00	Minto Explorations Ltd.	1 March 2013
Y62306	MINTO 76	4.10	Minto Explorations Ltd.	1 March 2013
Y62307	MINTO 77	13.65	Minto Explorations Ltd.	1 March 2013
Y62309	MINTO 79	51.50	Minto Explorations Ltd.	1 March 2013
Y61920	MINTO 31	45.70	Minto Explorations Ltd.	1 March 2013
Y61922	MINTO 33	57.11	Minto Explorations Ltd.	1 March 2013
Y62308	MINTO 78	50.90	Minto Explorations Ltd.	1 March 2013
Y62310	MINTO 80	50.53	Minto Explorations Ltd.	1 March 2013
Y62311	MINTO 81	57.24	Minto Explorations Ltd.	1 March 2013
Y62312	MINTO 82	57.58	Minto Explorations Ltd.	1 March 2013
Y62313	MINTO 83	44.68	Minto Explorations Ltd.	1 March 2013
Y62314	MINTO 84	43.47	Minto Explorations Ltd.	1 March 2013
Y78024	MINTO 96	10.24	Minto Explorations Ltd.	1 March 2013

GRANT #	Label	Acres	Owner / Work Performed by	Anniversary
Y61918	MINTO 27	48.02	Minto Explorations Ltd.	1 March 2013
Y61919	MINTO 28	40.75	Minto Explorations Ltd.	1 March 2013
Y61932	MINTO 29	45.31	Minto Explorations Ltd.	1 March 2013
Y61933	MINTO 30	36.62	Minto Explorations Ltd.	1 March 2013
Y62315	MINTO 85	46.32	Minto Explorations Ltd.	1 March 2013
Y62316	MINTO 86	46.57	Minto Explorations Ltd.	1 March 2013
Y62317	MINTO 87	48.51	Minto Explorations Ltd.	1 March 2013
Y62318	MINTO 88	48.26	Minto Explorations Ltd.	1 March 2013
Y78025	MINTO 97	33.13	Minto Explorations Ltd.	1 March 2013
Y61906	MINTO 19	53.90	Minto Explorations Ltd.	1 March 2013
Y61907	MINTO 20	50.90	Minto Explorations Ltd.	1 March 2013
Y61914	MINTO 23	49.35	Minto Explorations Ltd.	1 March 2013
Y61915	MINTO 24	47.93	Minto Explorations Ltd.	1 March 2013
Y61916	MINTO 25	52.75	Minto Explorations Ltd.	1 March 2013
Y61917	MINTO 26	49.62	Minto Explorations Ltd.	1 March 2013
Y61910	MINTO 37	51.35	Minto Explorations Ltd.	1 March 2013
Y61911	MINTO 38	34.02	Minto Explorations Ltd.	1 March 2013
Y61926	MINTO 41	46.29	Minto Explorations Ltd.	1 March 2013
Y61927	MINTO 42	30.76	Minto Explorations Ltd.	1 March 2013
Y61928	MINTO 43	51.03	Minto Explorations Ltd.	1 March 2013
Y61929	MINTO 44	44.17	Minto Explorations Ltd.	1 March 2013
Y62319	MINTO 89	53.81	Minto Explorations Ltd.	1 March 2013
Y77310	MINTO 94FR	3.90	Minto Explorations Ltd.	1 March 2013
Y77311	MINTO 95FR	8.26	Minto Explorations Ltd.	1 March 2013

GEOLOGICAL SETTING

Regional Geology

The Minto Project is located in the Carmacks Copper Belt along the eastern margin of the Yukon-Tanana Composite Terrane, which is comprised of several metamorphic assemblages and batholiths (Figure 4). The north-northwest trending Copper Belt is host to intrusion-related Cu-Au mineralization. The Yukon-Tanana Composite Terrane is the easternmost and largest of the pericratonic terranes accreted to the Paleozoic northwestern margin of North America (e.g., Colpron et al., 2005). It is regarded to be the product of a continental arc and back-arc system, preserving meta-igneous and

metasedimentary rocks of Permian age on top of a pre-Late Devonian metasedimentary basement (e.g., Piercey et al. 2002).

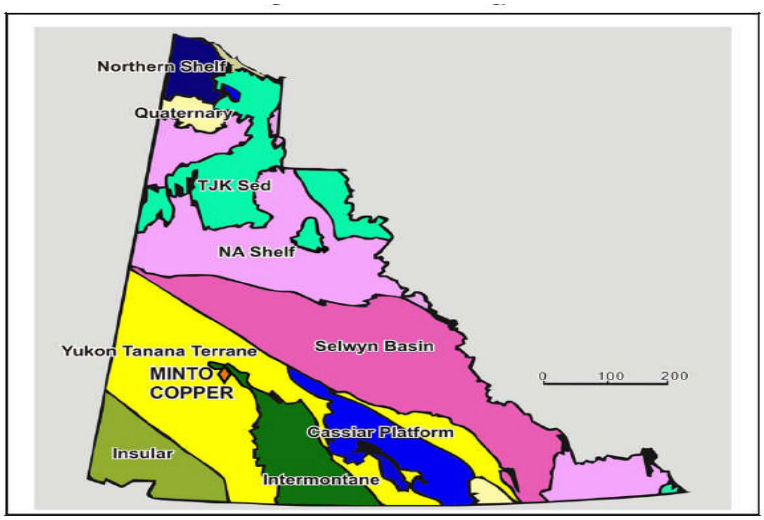

Figure 4: Geology map of the Yukon Territory. From Yukon Geologic Survey "Maps Yukon" website (www.geology.gov.yk.ca)

The Minto Property and surrounding area are underlain by plutonic rocks of the Minto Pluton (Early Mesozoic Age) (Figure 5) of the Granite Mountain Batholith that have intruded into the Yukon-Tanana Composite Terrane. They vary in composition from quartz diorite and granodiorite to quartz monzonite. The batholith is unconformably overlain by clastic sedimentary rocks thought to be the Tantalus Formation and andesitic to basaltic volcanic rocks of the Carmacks Group. Both are assigned a Late Cretaceous age. Immediately flanking the Minto Pluton to the east, is a package of undated mafic volcanic rocks, cropping out along the banks of the Yukon River. The structural relationship between the batholith and the undated mafic volcanics is poorly understood because the contact zone is not exposed.

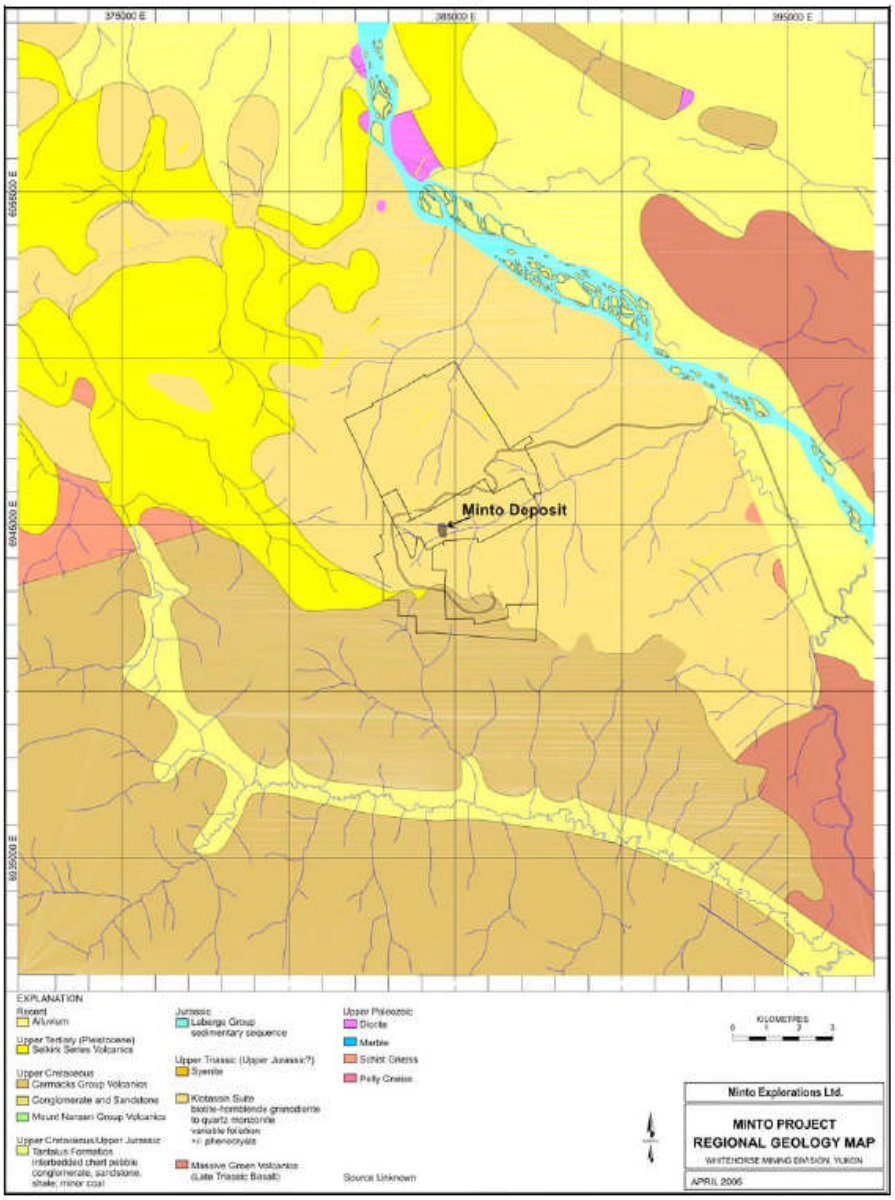

Figure 5: Regional Geology Map of the Minto mine area

Geobarometry and geothermometry data (Tafti and Mortensen, 2004) suggests that the Minto Pluton was emplaced at a depth of at least 9km, while the presence of euhedral to subhedral epidote, interpreted by Tafti and Mortensen as magmatic in origin, suggests a deeper emplacement depth in the order of 18km-20km.

Property Geology and Lithological Description

The Minto mine area was not glaciated during the last ice age event. Due to limited outcrop exposure and moderate to deep weathering and oxidation of outcrops, much of the geological understanding of the rock around the Minto deposits is based on observations from diamond drill core and extrapolation from regional observations.

The Minto Main deposit is now exposed in the open pit. The Area 2 and Area 118 deposits are located immediately south of Minto Main; these are now considered as continuous mineralization and reported as one deposit known as Area 2 / Area 118.. The Ridgetop deposit is located approximately 300m south of the Area 2 / Area 118 deposit. The most recently discovered copper deposit to be reported is the Minto North deposit located approximately 700m north of the Main Minto deposit. In addition to these deposits which all have NI43-101 compliant mineral resources and mineral reserves there are several significant mineral prospects. The most recent of these discoveries is "Minto East" which was discovered in late 2009. These deposits and prospects define a general north-northwest trend informally called the Priority Exploration Corridor (PEC).

Hypogene copper sulphide mineralization at Minto is hosted within the Minto pluton, which intrudes near the boundary between the Stikinia and Yukon-Tanana terranes; however, since the contact is not exposed it is unclear if the pluton intrudes both terranes, stitching them together. The Minto pluton is predominantly granodiorite. Hood et al. (2008) distinguish three varieties of intrusive rocks in the pluton. The first variety is a megacrystic K-feldspar granodiorite. This rock varies from quartz diorite to rare quartz monzonite or granite, typically maintaining a massive igneous texture. An exception occurs locally where weakly to strongly foliated granodiorite is seen in distinct sub-parallel zones several metres to tens of metres thick. A second variety of igneous rock is quartz-feldspar gneiss with centimeter-thick compositional layering, folded by centimetre to decimetre-scale, disharmonic, gentle to isoclinal folds (Hood et al., 2008). The third variety of intrusive rock is biotite-rich gneiss. Capstone geologists consider all units to be similar in origin and are variously deformed equivalents of the same intrusion.

Copper sulphide mineralization is found only in the rocks that have a structurally imposed fabric, ranging from a weak foliation through to strongly developed gneissic banding. For this reason all past and current core logging defines the foliated to gneissic-textured granodiorite as a distinct unit. Capstone geologists conclude that this foliated granodiorite represents variably strained equivalents of the two primary granodiorite textures and not a separate lithology. While this interpretation, based upon detailed observations from logging of tens of kilometers of drill core is highly likely, it has not been conclusively proven. Tafti & Mortensen (2004) noted that the relatively massive plutonic rocks have similar mineral and chemical composition as the foliated rocks. Research in collaboration with the Mineral Deposits Research Unit of the University of British Columbia is ongoing.

The contact relationship between the foliated deformation zones and the massive phases of granodiorite is generally sharp. These contacts do not exhibit chilled margins and are considered by Capstone geologists to be structural in nature, separating the variably strained equivalents of the same rock type. In contrast, Tafti and Mortensen (2004) interpret the sharp contacts to be zones of deformed rock within the unfoliated rock (i.e. rafts or roof pendants). More recent deep drilling and deep penetrating geophysics suggest this is not the case, but again this has not been conclusively proven. Supergene mineralization occurs close to near-surface the primary mineralization and beneath an unconformity defined by a conglomerate unit that is locally derived from eroded and sometimes partially weathered and decomposed granodiorite. This conglomerate is Cretaceous (unpublished date pers. com. Dr. Maurice Colpron - Yukon Geological Survey), and is exposed in a borrow pit exposure located west of the airstrip, as well as in numerous recent drill holes. Foliated and mineralized cobbles observed in drillcore

indicate that “Minto-Type” mineralization was exposed, eroded and reincorporated in sedimentary deposits by the Cretaceous Age.

Conglomerate and volcanic flows have been logged in drillcore by past operators. New drilling has confirmed a widespread presence of conglomerate, but not the volcanic flows. The latter cannot be confirmed by the authors as drillcore from historic campaigns was largely destroyed in forest fires and no recent drilling has intersected such rocks. However, undated volcanic rocks are mapped by Hood near the southwest margin of the property, south of a fault that is inferred from geophysics to separate them from the Jurassic Age intrusive rocks.

Other minor rock types include dykes of quartz-feldspar pegmatite, aplite, and an aphanitic intermediate composition intrusive rock. These dykes are relatively thin and rarely exceed one metre thickness in drillcore. These dykes are relatively late; contact relationships indicate that they generally postdate the peak ductile deformation event. However, some pegmatite and aplite bodies observed in a rock cut located north of the mill complex are openly folded. It is unclear if this folding is contemporaneous with foliation in the more deformed rocks or if it post-dates the foliation. Observations from drillcore and open cut benches in the mine show examples where the foliation and the pegmatitic/aplitic intrusions are both folded, as well as examples where the intrusions are not folded, suggesting at least two populations of minor dykes.

PREVIOUS WORK

A history of mineral exploration to production in the area is summarized below.

1970

- Regional stream sediment geochemical survey by the Dawson Syndicate, a joint venture between Silver Standard Mines Ltd. and Asarco Inc.

1971

- Follow-up of stream sediment anomalies and staking of the Minto claims in July
- Soil sampling, IP geophysical surveys and manually-excavated prospect pits on the Minto claims
- 7 diamond drill holes (1,158-m)
- DEF claims staked by United Keno Explorations, a joint venture between United Keno Hill Mines, Falconbridge Nickel, and Canadian Superior Explorations, to cover follow-up prospecting
- IP and VLF-EM geophysical surveys, soil sampling and mapping on the DEF claims

1972

- Mapping, airstrip construction and bulldozer trenching, 12 diamond drill holes (1,871m) on 4 zones on the Minto claims
- Grid soil sampling and bulldozer trenching on the DEF claims

1973

- 62 diamond drill holes (7,887m) on the Minto claims
- Bulldozer trenching, EM and magnetic geophysical surveys and 41 diamond drill holes (7,753m) on the DEF claims
- Main mineralized body discovered in June

1974

- Winter road built from Yukon Crossing and 58 diamond drill holes (11,228m) on the Minto claims
- Additional geophysics, rock mechanics, feasibility studies and 52 diamond drill holes (8,238m) on the DEF claims

1975-1976

- Joint feasibility studies

1984

- Silver Standard changed its name to Consolidated Silver Standard and transferred its interest in the Minto claims to Western Copper Holdings, a subsidiary of Teck Corp
- 5 percussion drill holes (518m) on the DEF claims

1989

- Western Copper Holdings transferred its interest in the Minto claims to Teck Corp
- 84 percussion drill holes (4,897m) on the DEF claims

1993

- MintoEx was formed
- Asarco and Teck sold their interest in the Minto claims (and leases) for shares in MintoEx and provided $375,000 in working capital
- Asarco and Teck also received a net smelter royalty of 1.5% to be divided evenly
- Falconbridge, the parent of United Keno Hill, sold its interest in the DEF claims to MintoEx for $1 million, payment due in 1996
- Falconbridge was granted an option to repurchase the DEF claims on January 1, 2005 if the deposit was not in production by then
- MintoEx carried out an airborne geophysical survey and drilled 8 diamond drill holes (960m)

1994

- Initial public offering of shares of MintoEx completed
- 5,912,501 shares were issued and outstanding with Asarco the majority shareholder with 3,297,500 shares (55.8%)
- 19 diamond drill holes (2,185m)
- Feasibility study began with engineering and geo-technical studies

1995

- 6 diamond drill holes (572m) on magnetic anomalies and 1 condemnation

diamond drill hole north of the proposed mill site

- Feasibility study completed, reserves are 8,818,000 tonnes of 1.73% Cu, 0.014 oz/t Au and 0.22 oz/t Ag at 0.5% Cu cut-off grade
- Recoveries are 95% for Cu and 85% for Au and Ag
- Mine life was projected to be 12 years at production rate of 477,000 tonnes per year

1996

- Funding arranged with Asarco to bring the deposit into production whereby Asarco would provide up to US$25 million. Under the funding arrangement, Asarco would acquire a 70% interest in the project, MintoEx would retain a 30% interest and remain as operator
- MintoEx makes the $1 million payment to Falconbridge for the DEF claims completing the consolidation of the Minto and DEF claims
- 16km access road constructed including a barge landing site on the west side of the Yukon River and a bridge over Big Creek
- 4 diamond drill holes (545m)

1997

- A further 12.8km of road construction to complete the new access road
- Campsite excavated
- 72m water well for domestic water supply
- Millsite excavated and two used grinding mills moved onto site using an ice bridge over the Yukon River
- Cooperation agreement signed with SFN

1998

- Mill foundations poured with cement trucks from Whitehorse barged across the Yukon River
- Type A Water licence granted by Yukon government
- Concentrator design completed
- Access road completed, camp constructed and the location of the proposed tailings dam was grouted
- Phase 1 open pit mining plan completed

1999

- Production licence received
- Five diamond drill holes (957m) for engineering purposes

2000

- Minor maintenance of on-site facilities
- Hatch completes review of 1995 feasibility study

2001

- Additional maintenance of camp facilities
- 5 confirmation diamond drill holes (552m) in the centre of the deposit
- Most of the Asarco core and all of the Falconbridge core destroyed by time and

forest fires
- Regional airborne magnetic and radiometric surveys carried out by the Yukon government

2002
- The limited amount of old Asarco core that could be recovered was resampled
- All drilling and geophysical data was compiled in a database to aid further exploration
- 3 Landsat anomalies were examined and prospected
- Road maintenance scheduled to keep permits active
- Asarco bought 100,000 shares of MintoEx to hold a total of 3,397,500 shares

2004
- MintoEx announces all its shares are for sale

2005
- Sherwood Copper Corp. acquires the Minto Mine property June, 2005
- 44 confirmation drill holes (5937m) completed to confirm Minto reserves

2006
- Development of Minto Project and commencement of pre-stripping the Minto Deposit
- Discovery and definition of Area 2 deposit totaling 79 drill holes (18,133m)
- Mill construction commences
- C$85 M debt package arranged, forward sales complete, concentrate off-take agreement executed October, 2006

2007
- Power purchase agreement for Minto signed
- Resource estimate for Area 2 deposit completed
- First copper-gold concentrates at Minto Mine produced
- 1 exploration and 4 metallurgical drill holes (754m) at Minto Deposit
- 51 exploration drill holes (11,015m) at Area 118 and Ridgetop
- Airstrip and Copper Keel copper-gold systems identified
- First concentrates from Minto mine delivered to Port of Skagway, Alaska in July, 2007
- Minto mine declares commercial production and first Minto concentrates shipped from Skagway in October, 2007
- Pre-feasibility study for expansion of Minto copper-gold mine, December, 2007
- Phase 2 mill expansion at Minto mine completed ahead of schedule

2008
- Minto mine achieves and exceeds design capacity
- Significant increase in copper-gold resources at Minto mine in June, 2008
- Capstone and Sherwood announce combination to create intermediate copper producer with Sherwood shareholders overwhelmingly approving business

combination
- Closing of precious metal transaction; Silverstone provides upfront payment of US$37.5 M for payable gold and silver from Minto
- Minto mine connects to electrical grid
- Capstone and Sherwood complete business combination, November, 2008
- Definition of thick zones of near surface-copper mineralization at Ridgetop

2009
- 88 discovery and definition drill holes (11,433m) of the high-grade Minto North deposit
- Discovery of high-grade mineralization southeast of Ridgetop
- Significant increase in copper-gold mineral resources at Minto, June, 2009
- Dipole-dipole geophysical survey over northern region targets
- Titan-24 survey over the Minto Priority Exploration Corridor
- Discovery of the Minto East exploration prospect

WORK CONDUCTED

Diamond Drilling

Two NQ diamond drillholes, 09SWC534 and 09SWC535, were drilled to test Anomalies B and D respectively between August 6 and August 14, 2010. 09SWC534 was drilled on the Anomaly B target to test a strong magnetic anomaly coincident with a weak to moderate gradient array IP (GAIP) anomaly defined by a 2006-2007 GAIP survey. Anomaly D was drilled to test a strong magnetic anomaly coincident with a small exposure of strongly magnetic, foliated granodiorite; this lithology typically hosts economic copper-gold mineralization on the property. The drill contractor used was Driftwood Diamond Drilling, Smithers, BC. A Reflex single-shot EZ shot tool was used to conduct downhole surveys. Drill collars were marked with a 2x4 with an aluminum label and surveyed by the professional surveyor at the Minto minesite.

Drill-core was logged and sampled at the Minto minesite. Samples submitted for analysis were shipped to ALS Chemex, North Vancouver. A list of all personnel involved is included in the appendix. Drillhole coordinates (UTM NAD 83, Zone 8), hole lengths, azimuths and dips, and other pertinent data are listed in Table 2. Drillhole locations are shown in Figure 6. Geological logs and assay certificates are appended with this report.

Table 2: Diamond drillhole data

Drillhole	Easting	Northing	Elev (m)	Length (m)	Azimuth	Dip	Start Date	End Date
09SWC534	384052.234	6948289.240	838.007	405.00	360	-60	6-Aug-09	14-Aug-09
09SWC535	385403.280	6947175.961	912.929	321.50	0	-90	8-Aug-09	11-Aug-09

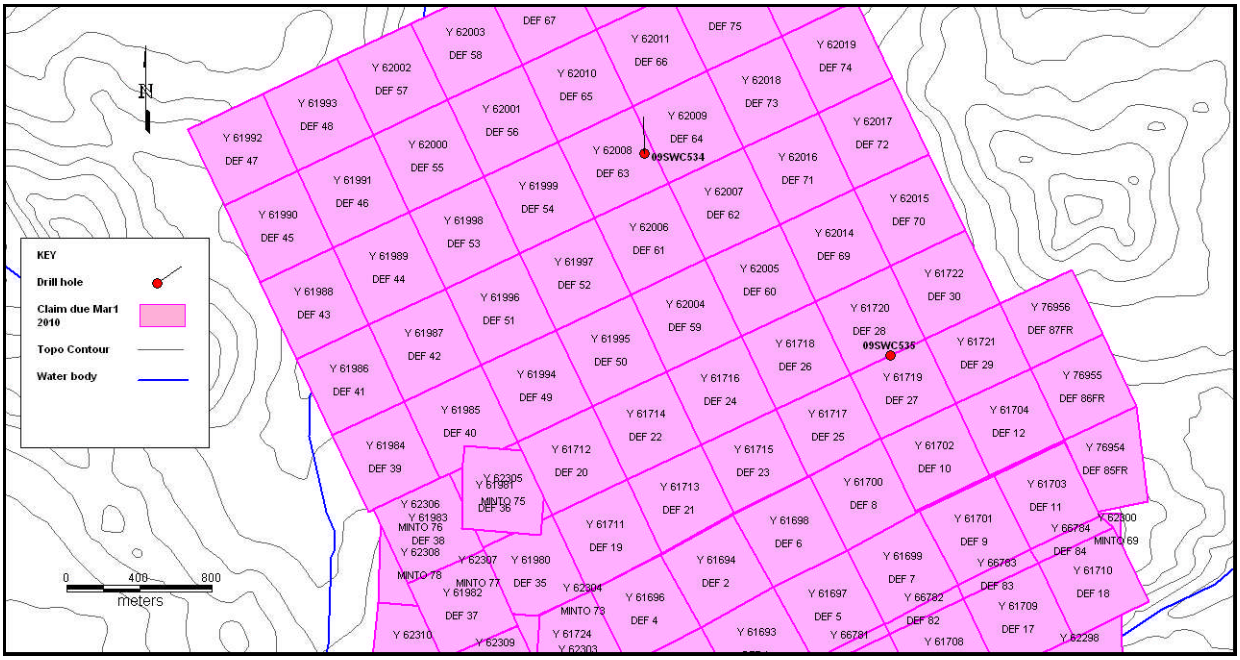

Figure 6. Location map of drillholes 09SWC534 and 09SWC535

Core logging methodology

Drillcore was delivered to the core logging facility by the drill crew. Drill core was then stacked on core-logging tables where geotechnical and geological logs, in that order, were completed using standardized Microsoft Access templates developed by Capstone for the Minto property. Geotechnical parameters measured included point load testing, core recovery, RQD, magnetic susceptibility, and joint and fracture frequency orientation and condition. The drill core was then geologically logged and sampled. Core logging parameters include identifying lithologies, alteration type and intensity, and type and abundance of all sulphide minerals and copper oxides. Magnetite content was also recorded. All foliated intervals were sampled and `shoulder' samples were used to bracket foliated intervals. Sample widths ranged from 0.30m to 3.00m. Quality assurance and quality control consisted of the insertion of control samples into the sample stream. Four control samples, including a blank, a coarse reject duplicate, a pulp duplicate and a certified standard reference material (SRM), were inserted within each 20-sample interval. Bulk density measurements were then obtained using a standardized procedure developed by Capstone. Drillcore was then photographed and moved to the cutshack where the samples were sawn in half. One half of the sawn core was then placed in a plastic sample bag and closed with tie wraps. Samples were then placed in rice bags and shipped to ALS Chemex, North Vancouver for analysis. The remaining half-core was left in the core trays which were then palleted, strapped and moved to the Minto mine core laydown area.

Analytical methodology

The 2009 drill core samples, blanks, SRMs and duplicates were submitted to the ALS-Chemex laboratory in North Vancouver for copper and gold analyses. Samples submitted to ALS-Chemex were first crushed in a jaw crusher to reduce the material to greater than 70% -10 mesh (2 mm) with a 250g sub-sample split, and pulverized to better than 85% passing -75 µm.

Copper was determined by aqua regia digestion method with final copper determination by atomic absorption spectroscopy (AAS). Non-sulphide copper was analyzed using sulphuric acid leach with AAS determination. Gold was determined by Assay-Tonne fire assay analysis. The gold analysis was determined using the AAS method. Silver was analyzed using aqua regia digestion with an AAS finish. All sample submittals included SRM samples, blank samples, and pulp and coarse reject duplicates, to ensure the quality of the assay data.

Interpretation of Diamond Drill Results

At Anomaly B, drillhole 09SWC534 intersected numerous barren to weakly mineralized, weakly foliated granodiorite intervals. Foliated granodiorite is typically the host rock for mineralization at the Minto project. In this drillhole, foliation is weakly developed, which is generally inconsistent with economic copper-gold mineralization; more intensely developed foliation typically correlates with higher copper grades.. Visible sulphide mineralization was virtually non-existent within foliated units. In contrast, potassic alteration in the form of secondary biotite is well developed in many of the foliated intervals; secondary biotite development is also associated with economic grade mineralization at Minto. Subtrace to trace chalcopyrite, bornite, and, rare trace chalcocite, was observed in foliated intervals from 315.33m to 360.30m depth. The best intersection from this hole was 0.102% copper, 0.026 grams per tonne gold, and 0.7 grams per tonne silver over 3.0m starting at 335.00m depth. The strong magnetic anomaly was not adequately explained by this drillhole.

At Anomaly D, drillhole 09SWC535 intersected numerous barren to weakly mineralized, weakly foliated granodiorite intervals, ranging from a few meters to almost 100 meters in thickness, excluding interruption by thin pegmatite dykes. The foliated units generally contain atypically coarse, subhedral amphibole crystals. Alteration is generally restricted to retrograde chlorite and epidote. Visible copper mineralization consists of rare (noted in only a few foliated intervals), subtrace chalcopyrite and malachite. Subtrace native copper was noted in three separate units; one of these was a massive potassium feldspar megacrystic granodiorite. The best intercept from this drillhole was 0.08% copper, 0.11 grams per tonne gold, and 0.2 grams per tonne silver over 3m starting at 82.00m. Although up to 3% magnetite was estimated in numerous foliated units, the strong magnetic anomaly was not adequately explained by this drillhole.

RECOMMENDATIONS FOR FURTHER WORK

While initial drill results from Anomalies B and D were disappointing, they also represent a first test of subtle geophysical targets on the Minto property. Coincident magnetic and chargeability anomalies, such as those that define Area 2 and Minto North, are recognized as excellent parameters with which to vector drilling towards locating economic copper-gold mineralization at Minto. At Anomaly B, the chargeability signature is quite subtle, suggesting, among other possibilities, a potentially deep target. At Anomaly D, no gradient array IP coverage exists. These targets will be reappraised in 2010, following pending 3-D inversion modeling of a recently completed pole-dipole IP survey over Anomaly B, and the completion and modeling of a similar survey over Anomaly D.

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APPENDIX A

DIAMOND DRILL LOGS

LIST OF ABBREVIATIONS

fG – foliated granodiorite
pG – porphyritic granodiorite
eG – equigranular granodiorite

altn – alteration

bt – biotite
MG – magnetite
chl – chlorite
ch - chlorite
ep – epidote
epi - epidote
ser – sericite
K – potassium
kspr – potassium feldspar
K-spar – potassium feldspar
plg – plagioclase
hbl – hornblende
qtz – quartz
carb - carbonate

lim – limonite
hem – hematite
hm - hematite
sil - silicification

NVS – no visible sulphides

TCA – To Core Axis

Trace – 0.05%
Subtrace – 0.01%

TITLE PAGE

Hole ID	**09SWC534**	***Zone***	**Anomaly B**

Section	UNKNOWN	***Easting***	384052.234	***Source***	Surveyor
Site	Land	***Northing***	6948289.24	***Azimuth***	360
Length	405.00 ***m***	***Elevation***	838.007	***Dip***	-60
		Grid	UTM NAD83		

Logged by	Stefan Anderson	***Day Started***	06-Aug-09
Logger #2	NONE	***Day Finished***	14-Aug-09
Geotechnician	Jernej Velikonja	***Log Completed***	18-Aug-09
Geotechnician #2	NONE	***Last Updated***	18-Aug-09
Geotech Type	SRK		

DIP TESTS (other than Maxibor)

Depth	*Azimuth*	*Dip*	*Type*
18.00	9.30	-58.90	EZ
78.00	9.80	-58.00	EZ
129.00	10.90	-58.50	EZ
189.00	11.40	-58.20	EZ
249.00	12.10	-57.50	EZ
309.00	13.60	-56.20	EZ
369.00	14.50	-56.00	EZ

Available Analyses:	***Au-AA*** Yes	***ICP*** Yes	***Total Cu*** Yes		
	Au-MET No		***Cu NS*** Yes		

Summary

Exploration drilling at Anomaly B. Total depth of 405.00m.

Failed to intersect foliated granodiorite intervals of significant interest.

Signature:

Drill Log
Anomaly B

Signature: _____

Initials: _____

09SWC534

From	To	Litho	Oxidation Limit
0.00	3.00	Ob	

OVERBURDEN
Casing drilled to 3.00m with no recovery.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
0.00	3.00	NA			0.00	3.00	-	-	-	-	-	-	-	-	-	0.00	3.00	0	-	-									

From	To	Litho	Oxidation Limit
3.00	10.40	pG	

POPHYRITIC GRANODIORITE
Massive texture with common low angle TCA cross cutting aplite dykes (<20cm). Local concentrations of megacrystic plagioclase. Rough fractured contact at 50 TCA.
Very strong potassic altn of mafics to bt with local potassic pooling band at about 6.0m depth. Weak to moderate secondary chl-ep altn of bt, moderate silification.
NVS and fine to medium magnetite replacements within bt.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
3.00	10.39	NA																											
Massive texture																													
					3.00	10.40	M	-	M	M	-	M	-	VS	-	3.00	10.40	0	-	-					MG	1			
					Very strong potassic altn of mafics to bt with local potassic pooling band at about 6.0m depth. Weak to moderate secondary chl-ep altn of bt, moderate silification.											*NVS, fine to medium magnetite replacements within bt.*												
																											7.90	9.40	***G0***	167936
																											9.40	10.40	***G0***	167937
10.39	10.40	CON	50																										
Rough fractured contact																													

From	To	Litho	Oxidation Limit
10.40	38.27	fG	

FOLIATED GRANODIORITE
Very weak to weak foliation of coarse bt at 50 TCA with intermingling pG slivers (<30cm) rarely distributed within unit. Common cross cutting aplite dykes (30cm) local mult-phase aplite dykes. Few fine grained potassic altn (bt-MG flooding) bands. Local low angle TCA undulating strong fracture. Abrupt intact contact at 50 TCA with minor bt pooling at contact.
Very strong potassic altn of mafics to coarse bt-MG. Moderate to strong chl with weak to moderate ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate k-hem-ser altn of feldspars with strong to very strong chl-ep altn of maifcs and local fracture filling ep stringers. Locally distributed moderate lim altn of wall rock and on fracture faces through unit as a result of groundwater flow.
NVS and fine to coarse magnetite replacements within bt as a part of very strong potassic altn.

STRUCTURES

From	To	Struct	CA	Strain
10.40	33.00	FOL	50	W

Very weak to weak foliation of coarse bt

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
10.40	38.27	S	S	S	-	M	-	VS	-	

Very strong potassic altn of mafics to coarse bt-MG. Moderate to strong chl with weak to moderate ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate k-hem-ser altn of feldspars with strong to very strong chl-ep altn of maifcs and local fracture filling ep stringers. Locally distributed moderate lim altn of wall rock and on fracture faces through unit as a result of groundwater flow.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
10.40	38.27	0	-	-					MG	2

NVS, medium to coarse magnetite replacements within bt as a part of very strong potassic altn.

SAMPLES

From	To	Sample	
10.40	13.40	G0	167938
13.40	16.40	G0	167939
16.40	16.40	G0	167940
16.40	19.40	G0	167941
19.40	22.40	G0	167942
22.40	25.40	G0	167943
25.40	28.40	G0	167944
28.40	28.40	G0	167945
28.40	31.40	G0	167946
31.40	34.40	G0	167947

From	To	Litho	Oxidation Limit
10.40	38.27	fG	

(Continued from previous page)

STRUCTURES

From	To	Struct	CA	Strain
33.00	35.60	FR	10	S
		Strong fracture, locally intact filling with gypsum, more commonly fractured oped due to weakness of gypsum.		
35.60	38.26	FOL	50	W
		Very weak to weak foliation of coarse bt		
38.26	38.27	CON	50	
		Abrupt intact contact minor bt-MG pooling at contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
34.40	37.40	*G0*	167948
37.40	38.27	*G0*	167949

From	To	Litho	Oxidation Limit
38.27	38.90	pG	

PORPHYRITIC GRANODIORITE
Massive texture with common megacrystic kspr-plg. Abrupt contact at 50 TCA, terminates weak foliatio in lower fG almost perpendicularly.
Strong potassic altn of mafics to bt-MG. Weak to moderate secondary chl-ep altn of bt, moderate silification.
NVS and fine to medium magnetite altn of mafics with bt.

STRUCTURES

From	To	Struct	CA	Strain
38.27	38.89	NA		
		Massive texture		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
38.27	38.90	S		M	M	-	M	-	S	-

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
38.27	38.90	0	-	-					MG	0.75
		NVS and fine to medium magnetite altn of mafics with bt.								

SAMPLES

From	To	Sample	
38.27	38.27	*G0*	167950
38.27	38.90	*G0*	167951

From	To	Litho	Oxidation Limit
38.27	38.90	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

38.89 38.90 CON 50

Abrupt contact, terminates weak foliatio in lower fG.

From	To	Litho	Oxidation Limit
39.65	44.65	pG	

PORPHYRITIC GRANODIORITE

Massive texture with few cross cutting pegmatite and aplite dykes (<5cm). Low angle TCA aplite dyke cross cut by strong low angle TCA fracture filled with gypsum, followed by a thin fracture intersecting zone. Moderately undulated contact at 50 TCA, terminating foliation in lower fG.

Strong potassic altn of mafics to bt-MG weak to moderate secondary chl and weak ep altn of bt, moderate silicification. Fracture controlled moderate K-hem altn of feldspars with strong chl altn of bt and fracture filling ep stringers.

NVS and fine to medium magnetite replacenment altn.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											39.65	40.65	G0 167953

39.65 44.64 NA

Massive texture

39.65	44.65	S		S	M	-	W	-	S	-		39.65	44.65	0	-	-				MG	1							

Strong potassic altn of mafics to bt-MG weak to moderate secondary chl and weak ep altn of bt, moderate silicification. Fracture controlled moderate K-hem altn of feldspars with strong chl altn of bt and fracture filling ep stringers.

NVS, fine to medium magnetite altn replacements with bt.

40.65	42.15	G0	167954
42.15	43.65	G0	167955
43.65	43.65	G0	167956
43.65	44.65	G0	167957

From	To	Litho	Oxidation Limit
39.65	44.65	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

44.64 44.65 CON 50

Moderately undulated contact, terminates foliation

From	To	Litho	Oxidation Limit
44.65	51.80	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt at 55 TCA. Strong undulated low angle TCA fracturing with gypsum fracture fill. Local thin fine grained granodiorite band cross cutting thorugh foliation. Sharp fracxtured contact at 55 TCA with anhydrite-ser fracture filling band/stringers.
Very strong potassic altn of maifcs to bt-MG with moderate secondary chl and weak ep altn of bt, weak to local strong ser-clay altn of feldspars. Fracture controlled moderate K altn of feldspars with strong chl altn of mafics.
NVS and medium to coarse magnetite altn replacements.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											44.65	47.65	G0 167958
44.65	51.79	FOL	55	W																									
Weak foliation																													
					44.65	51.80	S	M	S		-	W	-	S	-	44.65	51.80	0	-	-			MG	2					
					Very strong potassic altn of maifcs to bt-MG with moderate secondary chl and weak ep altn of bt, weak to local strong ser-clay altn of feldspars. Fracture controlled moderate K altn of feldspars with strong chl altn of mafics.											*NVS and medium to coarse magnetite subhedral altn replacements.*													
																											47.65	50.65	G0 167959
																											50.65	51.80	G0 167960
51.79	51.80	CON	55																										
Sharp fractured contact withh anhydrite-ser fracture filling band/stringers.																													

From	To	Litho	Oxidation Limit
51.80	83.40	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with local very weak faint fabric at 50 TCA. Sharp fractured contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with secondary moderate chl-ep altn of bt. Fracture controlled moderate to strong K altn of feldspars with strong chl-ep altn of bt and fracture filling anhydrite-gypsum-ser stringers. . Moderate silicification. Local moderate lim staining of feldspars with strong lim altn coating fracture faces.
NVS and fine to medium magnetite subhedral altn replacments with bt.

STRUCTURES

From	To	Struct	CA	Strain
51.80	83.39	NA		
83.39	83.40	CON	45	

Massive texture.

Sharp fractured contact

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
51.80	83.40	S	M	S	M	-	S	-	S	M

Very strong potassic altn of mafics to bt-MG with secondary moderate chl-ep altn of bt. Fracture controlled moderate to strong K altn of feldspars with strong chl-ep altn of bt and fracture filling anhydrite-gypsum-ser stringers. . Moderate silicification. Local moderate lim staining of feldspars with strong lim altn coating fracture faces.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
51.80	83.40	0	-	-					MG	0.75

NVS and fine to medium magnetite subhedral altn replacments with bt.

SAMPLES

From	To	Sample	
51.80	51.80	*G0*	167961
51.80	52.80	*G0*	167963
52.80	54.30	*G0*	167964

From	To	Litho	Oxidation Limit
38.90	39.65	fG	

FOLIATED GRTANODIORITE
Weak foliation of coarse mafics at 50 TCA. Abrupt contact at 35 TCA, terminates foliation.
Very strong potassic altn of mafics to bt-MG with moderate secondary chl altn of bt. Moderate silicification. Fracture controlled weak k-ser altn of feldspars with strong chl altn of bt.
NVS and subhedral medium to coarse magnetite replacement altn of mafics.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample

From	To	Litho	Oxidation Limit
38.90	39.65	fG	

FOLIATED GRTANODIORITE
Weak foliation of coarse mafics at 50 TCA. Abrupt contact at 35 TCA, terminates foliation.
Very strong potassic altn of mafics to bt-MG with moderate secondary chl altn of bt. Moderate silicification. Fracture controlled weak k-ser altn of feldspars with strong chl altn of bt.
NVS and subhedral medium to coarse magnetite replacement altn of mafics.

STRUCTURES

From	To	Struct	CA	Strain
38.90	39.64	FOL	50	W
		Weak foliation		
39.64	39.65	CON	35	
		Abrupt contact, terminates foliation		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
38.90	39.65	S	W	S	M	-	-	S	-	
		Very strong potassic altn of mafics to bt-MG with moderate secondary chl altn of bt. Moderate silicification. Fracture controlled weak k-ser altn of feldspars with strong chl altn of bt.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
38.90	39.65	0	-	-			MG	1		
		NVS, subhedral medium to coarse magnetite replacement altn of mafics.								

SAMPLES

From	To	Sample
38.90	39.65	***G0*** 167952

From	To	Litho	Oxidation Limit
83.40	84.60	Ap	

APLITE DYKE
Massive texture, fracture controlled weak to moderate K-hem staining/altn. NVS and non-magnetic. Sharp fractured contact at 45 TCA.

STRUCTURES

From	To	Struct	CA	Strain
83.40	84.59	NA		
		Massive texture		
84.59	84.60	CON	45	
		Sharp fractured contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
83.40	84.60	M		-		-	-	M	-	
		Fracture controlled weak to moderate K-hem staining/altn								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
83.40	84.60	0	-	-						
		NVS and non-magnetic.								

SAMPLES

From	To	Sample

From	To	Litho	Oxidation Limit
84.60	141.11	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with local very weak faint fabric at 50 TCA. Common cross cutting aplite and pegmatite dyke (<10cm). Local strong shear/moderate fault breccia zone, hem-chl altered gypsum and primary chl fracture filling with very strong chl-ep overprinting altn. Weakly digestive contact, truncates foliation in lower at 45 TCA.
Very strong potassic altn of mafics to bt-MG with secondary weak to local moderate chl-ep altn of bt, weak to local strong ser-clay altn of feldspars. Fracture controlled moderate to strong K altn of feldspars with strong chl-ep altn of bt and fracture filling gypsum-ser stringers. . Moderate silicification.
NVS and fine to medium magnetite subhedral altn replacments with bt.

STRUCTURES

From	To	Struct	CA	Strain
84.60	92.70	NA		
		Massive texture		
92.70	93.40	FLT	45	S
		Local strong fault zone with strong shear at 45 TCA bound by moderate fault brecciation, hem-chl altered gypsum and primary chl fracture filling with very strong chl-ep overprinting altn.		
93.40	141.10	NA		
		Massive texture		
141.10	141.11	CON	45	
		Weakly digestive contact, truncates foliation in lower fG.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
84.60	141.11	S	M	S	M	-	M	-	VS	-
		Very strong potassic altn of mafics to bt-MG with secondary weak to local moderate chl-ep altn of bt, weak to local strong ser-clay altn of feldspars. Fracture controlled moderate to strong K altn of feldspars with strong chl-ep altn of bt and fracture filling gypsum-ser stringers. . Moderate silicification.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
84.60	141.11	0	-	-					MG	0.75
		NVS and fine to medium subhedral magnetite altn replacements								

SAMPLES

From	To	Sample
138.61	140.11	***G0*** 167965
140.11	141.11	***G0*** 167966

From	To	Litho	Oxidation Limit
141.11	142.09	fG	

FOLIATED GRANODIORITE
Weak foliation at 50 TCA. Local thin cross cutting bt rich fine grained grandiorite band. Fractured lower contact at 40 TCA.
Very strong potassic altn of mafics to bt-MG with secondary weak to moderate chl-ep altn of bt, weak ser altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl altn of maifcs and fracture filling ep-gypsum stringers.
NVS and fine to medium subhedral magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
141.11	142.08	FOL	50	W
		Weak foliation		
142.08	142.09	CON	40	
		Fractured contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
141.11	142.09	S	W	S		-	M	-	S	-
		Very strong potassic altn of mafics to bt-MG with secondary weak to moderate chl-ep altn of bt, weak ser altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl altn of maifcs and fracture filling ep-gypsum stringers.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
141.11	142.09	0	-	-					MG	0.75
		NVS and fine to medium subhedral magnetite altn replacements with bt.								

SAMPLES

From	To	Sample
141.11	142.09	G0 167967

From	To	Litho	Oxidation Limit
142.09	144.00	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with a fine grained equigranular granodiorite clast suspended within massive texture at upper contact. Gradational contact with no discernible orientation.
Moderate chl-ep altn of mafics. Fracture controlled weak to moderate K-hem altn of feldspars with strong chl altn of mafics and ep-anhydrite fracture filling stringers.
NVS and weak magnetism

STRUCTURES

From	To	Struct	CA	Strain
142.09	143.95	NA		
		Massive texture		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
142.09	142.09	G0 167968
142.09	143.00	G0 167969

From	To	Litho	Oxidation Limit
142.09	144.00	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with a fine grained equigranular granodiorite clast suspended within massive texture at upper contact. Gradational contact with no discernible orientation.
Moderate chl-ep altn of mafics. Fracture controlled weak to moderate K-hem altn of feldspars with strong chl altn of mafics and ep-anhydrite fracture filling stringers.
NVS and weak magnetism

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
142.09	144.00	M		S	-	-	M	-	M	-

Moderate chl-ep altn of mafics. Fracture controlled weak to moderate K-hem altn of feldspars with strong chl altn of mafics and ep-anhydrite fracture filling stringers.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
142.09	144.00	0	-	-					MG	0.25

NVS and weak magnetism

SAMPLES

From	To	Sample
143.00	144.00	G0 167970

143.95 144.00 CON
Gradational contact with no discernible orientation.

From	To	Litho	Oxidation Limit
144.00	149.55	fG	

FOLIATED GRANODIORITE
Moderate to weak with local very weak foliation of coarse bt altered mafics at 45 TCA. Local fine grained bt rich band. Fractured contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with weak to moderate secondary chl and weak ep altn of bt. Common fracture controlled moderate to strong k-hem altn of feldspars with strong chl altn of bt.
NVS and fine to medium subhedral magnetite altn replacements.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
144.00	149.55	S	-	S	-	-	W	-	VS	-

Very strong potassic altn of mafics to bt-MG with weak to moderate secondary chl and weak ep altn of bt. Common fracture controlled

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
144.00	149.55	0	-	-					MG	1.25

NVS and fine to medium subhedral magnetite altn replacements.

SAMPLES

From	To	Sample
144.00	147.00	G0 167971

144.00 149.54 FOL 45 M
Moderate to weak with local very weak foliation

From	To	Litho	Oxidation Limit
144.00	149.55	fG	

FOLIATED GRANODIORITE
Moderate to weak with local very weak foliation of coarse bt altered mafics at 45 TCA. Local fine grained bt rich band. Fractured contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with weak to moderate secondary chl and weak ep altn of bt. Common fracture controlled moderate to strong k-hem altn of feldspars with strong chl altn of bt.
NVS and fine to medium subhedral magnetite altn replacements.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

moderate to strong k-hem altn of feldspars with strong chl altn of bt.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
147.00	147.00	G0 167972
147.00	149.55	G0 167973

149.54 149.55 CON 45
Fractured contact

From	To	Litho	Oxidation Limit
149.55	152.52	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with local very faint very weak fabric at 50 TCA. Few cross cutting pegmatite dykes (<5cm). Intergrown contact at 45 TCA, truncates foliation in lower fG.
Strong potassic altn of mafics to bt-MG with secondary weak ep and weak to moderate chl altn of bt. Weak to local strong ser-clay altn of feldspars. Common fracture controlled moderate to strong K-hem altn of feldspars with strong to very strong chl altn of bt with local moderate to strong ep altn of bt with fracture filling ep stringers.
NVS and weak magnetism.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
149.55	150.55	G0 167974

149.55 152.51 NA
Massive texture with local very faint very weak fabric

149.55 152.52 S M VS - - M - S -
Strong potassic altn of mafics to bt-MG with secondary weak ep and weak to moderate chl altn of bt. Weak to local strong ser-clay altn of feldspars. Common fracture controlled moderate to strong K-hem altn of feldspars with strong to very strong chl altn of bt with local moderate

149.55 152.52 0 - - MG 0.25
NVS and fine to medium subhedral magnetite altn replacements.

From	To	Litho	Oxidation Limit
149.55	152.52	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with local very faint very weak fabric at 50 TCA. Few cross cutting pegmatite dykes (<5cm). Intergrown contact at 45 TCA, truncates foliation in lower fG.
Strong potassic altn of mafics to bt-MG with secondary weak ep and weak to moderate chl altn of bt. Weak to local strong ser-clay altn of feldspars. Common fracture controlled moderate to strong K-hem altn of feldspars with strong to very strong chl altn of bt with local moderate to strong ep altn of bt with fracture filling ep stringers.
NVS and weak magnetism.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
150.55	151.32	G0 167975
151.32	152.32	G0 167976

to strong ep altn of bt with fracture filling ep stringers.

152.51 152.52 CON 45
Intergrown contact, truncates lower unit foliation

From	To	Litho	Oxidation Limit
152.52	156.10	fG	

FOLIATED GRANODIORITE
Weak foliation of bt altered mafics at low angle TCA with a sudden change in foliation orientation to 50 TCA. Common cross cutting siliceous felsic dykes (<5cm) and locally numerous mm scale gypsum fracture filling stringers. Moderately digested lower contact at 50 TCA.
Strong potassic altn of mafics to bt-MG with secondary weak to moderate chl atn weak ep altn of bt. Fracture controlled strong K-hem altn of feldspars with strong chl altn of bt and rare fracture filling ep stringers.
NVS and weak with local moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain
152.52	155.00	FOL	20	W

Weak foliation of coarse bt altered mafics

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
152.52	156.10	S	S	-	-	W	-	S	-	

Strong potassic altn of mafics to bt-MG with secondary weak to moderate chl atn weak ep altn of bt. Fracture controlled strong K-hem altn of feldspars with strong chl altn of bt and rare fracture filling ep stringers.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
152.52	156.10	0	-	-					MG	0.5

NVS and fine to medium subhedral magnetite altn replacements.

From	To	Litho	Oxidation Limit
152.52	156.10	fG	

FOLIATED GRANODIORITE
Weak foliation of bt altered mafics at low angle TCA with a sudden change in foliation orientation to 50 TCA. Common cross cutting siliceous felsic dykes (<5cm) and locally numerous mm scale gypsum fracture filling stringers. Moderately digested lower contact at 50 TCA.
Strong potassic altn of mafics to bt-MG with secondary weak to moderate chl atn weak ep altn of bt. Fracture controlled strong K-hem altn of feldspars with strong chl altn of bt and rare fracture filling ep stringers.
NVS and weak with local moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain
155.00	156.09	FOL	50	W
Sudden orientation change in weak foliation				
156.09	156.10	CON	50	
Moderately digested contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
154.32	154.32	*G0*	167978
154.32	156.10	*G0*	167979

From	To	Litho	Oxidation Limit
156.10	158.25	Peg	

PEGMATITE DYKE
Massive texture, megacrystic kspr rimmed by plg with interstitial very fine to very coarse bt. Filter pressing appearance. Moderately digestive contact at 35 TCA.
Weak chl-ep altn of bt.
NVS and non-magnetic

STRUCTURES

From	To	Struct	CA	Strain
156.10	158.24	NA		
Massive texture				
158.24	158.25	CON	35	
Moderately digestive contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
156.10	158.25	W	-	W	-	-	W	-	-	-
Weak chl-ep altn of bt										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
156.10	158.25	0	-	-						
NVS and non-magnetic										

SAMPLES

From	To	Sample	
156.10	158.25	*G0*	167980

From	To	Litho	Oxidation Limit
158.25	158.80	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with thin diffuse siliceous globules. Anhydrite with moderate hem staining fracture filled contact at 45 TCA.
Moderate silicification, moderate potassic altn of mafics to bt-mg with weak to moderate chl-ep altn of mafics. Rare fracture controlled weak K altn of feldspars with strong chl altn of mafics.
NVS and fine to coarse subhedral magnetite replacments within bt.

STRUCTURES

From	To	Struct	CA	Strain
158.25	158.79	NA		
		Massive texture		
158.79	158.80	CON	45	
		Anhydrite with moderate hem staining fracture filled contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
158.25	158.80	M	-	M	M	-	M	-	M	-
		Moderate silicification, moderate potassic altn of mafics to bt-mg with weak to moderate chl-ep altn of mafics. Rare fracture controlled weak K altn of feldspars with strong chl altn of mafics.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
158.25	158.80	0	-	-					MG	0.5
		NVS and fine to coarse subhedral magnetite replacments within bt.								

SAMPLES

From	To	Sample
158.25	158.80	***G0*** 167981

From	To	Litho	Oxidation Limit
158.80	159.65	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 50 TCA. Fracture contact at 45 TCA.
Very strong potassic altered mafics to bt-MG with weak to moderate chl-ep altn of bt. Moderate silicification. Local fracture controlled moderate k-hem altn of feldspars with strong chl altn of bt. Local moderate hem staining within quartz eyes.
NVS and fine to medium magnetite replacements within bt.

STRUCTURES

From	To	Struct	CA	Strain
158.80	159.64	FOL	50	W
		Weak foliation		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
158.80	159.65	S	-	S	M	-	M	-	S	-
		Very strong potassic altered mafics to bt-MG with weak to moderate chl-ep altn of bt. Moderate silicification. Local fracture controlled moderate k-hem altn of feldspars with strong chl altn of bt. Local moderate hem staining within quartz eyes.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
158.80	159.65	0	-	-					MG	0.5
		NVS and fine to medium magnetite replacements within bt.								

SAMPLES

From	To	Sample
158.80	159.65	***G0*** 167982

From	To	Litho	Oxidation Limit
158.80	159.65	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 50 TCA. Fracture contact at 45 TCA.
Very strong potassic altered mafics to bt-MG with weak to moderate chl-ep altn of bt. Moderate silicification. Local fracture controlled moderate k-hem altn of feldspars with strong chl altn of bt. Local moderate hem staining within quartz eyes.
NVS and fine to medium magnetite replacements within bt.

STRUCTURES

From	To	Struct	CA	Strain
159.64	159.65	CON	45	

Fractured contact

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
159.65	159.65	G0 167983
159.65	160.65	G0 167984

From	To	Litho	Oxidation Limit
159.65	162.57	pG	

PORPHYRITIC GRANODIORITE
Massive texture with local megacrystic ksprs, single thin (~2cm) cross cutting pegmatite dyke. Intergrown contact at 50 TCA, obliquely truncates lower unit foliation
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak to moderate K-hem altn of feldspars with moderate to strong chl-ep altn of mafics.
NVS and weak magnetism

STRUCTURES

From	To	Struct	CA	Strain
159.65	162.56	NA		

Massive texture

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
159.65	162.57	M	-	S	M	-	M	-	M	-

Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak to moderate K-hem altn of feldspars with moderate to strong chl-ep altn of mafics.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
159.65	162.57	0	-	-					MG	0.25

NVS and weak magnetism

SAMPLES

From	To	Sample
160.65	161.57	G0 167985
161.57	162.57	G0 167986

From	To	Litho	Oxidation Limit
159.65	162.57	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

162.56 162.57 CON 50

Intergrown contact, obliquely truncates lower units foliation

From	To	Litho	Oxidation Limit
162.57	163.65	fG	

FOLIATED GRANODIORITE
Weak to local moderate foliation of coarse bt altered mafics at 50 TCA. Local thin (~4cm) silceous partially wall rock digesting pegmatite dyke. Sharp contact at 20 TCA, truncates foliation.
Very strong potassic altn of mafics to bt-MG with secondary weak chl-ep altn of bt.
NVS and fine to medium magnetite replacements within bt.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

162.57 163.64 FOL 50 W

Weak to local moderate foliation

162.57	163.65	S	-	W	-	W	-	VS	-		162.57	163.65	0	-	-				MG	1						162.57	163.65	G0	167987

Very strong potassic altn of mafics to bt-MG with secondary weak chl-ep altn of bt.

NVS and fine to medium subhedral magnetite replacements with bt.

163.64 163.65 CON 20

Sharp contact turncating foliation

From	To	Litho	Oxidation Limit
163.65	164.40	Ap	

APLITE DYKE
Massive texture sharp contact at 25 TCA.
Fracture controlled moderate k-hem stasining.
NVS and non-magnetic.

STRUCTURES

From	To	Struct	CA	Strain
163.65	164.39	NA		
Massive texture				
164.39	164.40	CON	25	
Sharp contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
163.65	164.40	M	-	-	-	-	-	M	-	
Fracture controlled moderate k-hem staining.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
163.65	164.40	0	-	-						
NVS and non-magnetic.										

SAMPLES

From	To	Sample
163.65	164.40	G0 167988

From	To	Litho	Oxidation Limit
164.40	170.65	fG	

FOLIATED GRANODIORITE
Weak to moderate foliaiton of coarse bt altered mafics at 50 TCA. Common thin slivers (<30cm) of eG with very weak fabric parallel to true foliation. Low angle TCA weakly undulated intergrown contact at 10 TCA.
Very strong potassic altn of mafics to bt-MG and local bt-MG flooding. Secondary weak ep and weak to moderate chl altn of bt. Fracture controlled weak k-ser altn of feldspars with moderate to strong chl altn of bt and fracture filling ep stringers.
NVS and fine to local medium subhedral magnetite altn replacements.

STRUCTURES

From	To	Struct	CA	Strain
164.40	170.64	FOL	50	W
Weak to moderate foliation of coarse bt altered mafics.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
164.40	170.65	S	W	M	-	-	W	-	VS	-
Very strong potassic altn of mafics to bt-MG and local bt-MG flooding. Secondary weak ep and weak to moderate chl altn of bt. Fracture controlled weak k-ser altn of feldspars with moderate to strong chl altn of bt and fracture filling ep stringers.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
164.40	170.65	0	-	-					MG	1.5
NVS and fine to local medium subhedral magnetite altn replacements.										

SAMPLES

From	To	Sample
164.40	167.50	G0 167989
167.50	170.65	G0 167990

From	To	Litho	Oxidation Limit
164.40	170.65	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																													G0

170.64 170.65 CON 10
Low angle TCA, weakly undulated contact

From	To	Litho	Oxidation Limit
170.65	173.43	eG	

EQUIGRANULAR GRANODIORITE
Massive texture with local thin sliver (<30cm) weakly foliated coarse bt. Intergrown contact at 50 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak K altn of feldspars with moderate chl-ep altn of mafics and fracture filling ep stringers.
NVS and weak magnetism

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											170.65	170.65	G0 167991
																											170.65	171.65	G0 167992

170.65 173.42 NA
Massive texture

170.65	173.43	M		W	M	-	W	-	W	-						170.65	173.43	0	-	-				MG	0.25				

Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak K altn of feldspars with moderate chl-ep altn of mafics and fracture filling ep stringers.

NVS and weak magnetism

171.65	173.15	G0	167993

173.42 173.43 CON 50
Intergrown contact

From	To	Litho	Oxidation Limit
173.43	182.99	pG	

PORPHYRITIC GRANODIORITE
Intermingling massive equigranular granodiorite with massive porphyritic granodiorite. Few cross cutting pegmatite and aplite dykes Intergrown contact at 50 TCA.
Weak chl-ep altn of mafics, moderate silciifcation. Fracutre controlled weak to moderate K-hem altn of feldspars with moderate to strong chl-ep altn of mafics.
NVS and weak to local moderate magnetism.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
173.43	182.99	M	-	S	M	-	M	-	M	-

Weak chl-ep altn of mafics, moderate silciifcation. Fracutre controlled weak to moderate K-hem altn of feldspars with moderate to strong chl-ep altn of mafics.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
173.43	182.99	0	-	-					MG	0.5

NVS and weak to local moderate magnetism. fine magnetite replacements within mafics.

SAMPLES

From	To	Sample
180.49	181.49	G0 167994
181.49	182.99	G0 167995

173.43 182.98 NA
Intermingling eG-pG, both with massive textures and local faint very weak fabric.

182.98 182.99 CON 60
Fractured contact

From	To	Litho	Oxidation Limit
182.99	187.45	fG	

FOLIATED GRANODIORITE
Intermingling very weak to weak foliation with weak moderate foliation of coarse bt altered mafics between 45 - 55 TCA.. Fractured lower cotnact at 60 TCA.
Moderate to strong potassic altn of mafics to bt-MG with weak secondary chl altn. Fracture controlled weak K-hem altn of feldsaprs with moderate to strong chl altn of bt.
NVS and fine to patches of fine magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
182.99	185.10	G0 167996

From	To	Litho	Oxidation Limit
182.99	187.45	fG	

FOLIATED GRANODIORITE
Intermingling very weak to weak foliation with weak moderate foliation of coarse bt altered mafics between 45 - 55 TCA.. Fractured lower cotnact at 60 TCA.
Moderate to strong potassic altn of mafics to bt-MG with weak secondary chl altn. Fracture controlled weak K-hem altn of feldsaprs with moderate to strong chl altn of bt.
NVS and fine to patches of fine magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
182.99	187.44	FOL	50	W

Intermingling very weak to weak foliation with weak moderate foliation of coarse bt.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
182.99	187.45	S	-	M		-		-	S	-

Moderate to strong potassic altn of mafics to bt-MG with weak secondary chl altn. Fracture controlled weak K-hem altn of feldsaprs with moderate to strong chl altn of bt.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
182.99	187.45	0	-	-					MG	1

NVS and fine to patches of fine magnetite altn replacements with bt.

SAMPLES

From	To	Sample	
185.10	187.45	*G0*	167997

From	To	Struct	CA	Strain
187.44	187.45	CON	60	

Fractured contact

From	To	Litho	Oxidation Limit
187.45	189.89	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Intergrown contact at 50 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl and moderate ep altn of mafics and fracture filling ep stringers. Local strong patchy ep altn.
NVS and moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
187.45	187.45	*G0*	167998
187.45	188.65	*G0*	167999

From	To	Litho	Oxidation Limit
187.45	189.89	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Intergrown contact at 50 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl and moderate ep altn of mafics and fracture filling ep stringers. Local strong patchy ep altn.
NVS and moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain
187.45	189.88	NA		
		Massive texture		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
187.45	189.89	S	-	S	M	-	S	-	S	-
		Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl and moderate ep altn of mafics and fracture filling ep stringers. Local strong patchy ep altn.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
187.45	189.89	0	-	-					MG	0.5
		NVS and moderate magnetism								

SAMPLES

From	To	Sample
188.65	189.89	***G0*** 168000

189.88 189.89 CON 50
Intergrown contact

From	To	Litho	Oxidation Limit
189.89	200.56	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 50 TCA intermingled with equigranular very weak foliation. Local fine to medium magnetite bands. Common cross cutting pegmatite-aplite dykes (<10cm). Intergrown contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with numerous local bt flooding nearly obliterating foliation. Local pervasive very strong chl altn of bt flooding. Fracture controlled moderate to strong K-hem altn +/- moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and common fracture filling ep stringers.
NVS and fine to medium magnetite replacements within bt. Local very strong magnetism within fine to medium magnetite bands.

STRUCTURES

From	To	Struct	CA	Strain
189.89	200.55	FOL	50	W
		Weak foliation of coarse bt altered mafics intermingled		

SAMPLES

From	To	Sample
189.89	192.89	***G0*** 168001

From	To	Litho	Oxidation Limit
189.89	200.56	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 50 TCA intermingled with equigranular very weak foliation. Local fine to medium magnetite bands. Common cross cutting pegmatite-aplite dykes (<10cm). Intergrown contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with numerous local bt flooding nearly obliterating foliation. Local pervasive very strong chl altn of bt flooding. Fracture controlled moderate to strong K-hem altn +/- moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and common fracture filling ep stringers.
NVS and fine to medium magnetite replacements within bt. Local very strong magnetism within fine to medium magnetite bands.

STRUCTURES

From	To	Struct	CA	Strain
with equigranular very weak foliation				
200.55	200.56	CON	45	
Intergrown contactq				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
189.89	200.56	S	-	S		-	M	-	VS	-
Very strong potassic altn of mafics to bt-MG with numerous local bt flooding nearly obliterating foliation. Local pervasive very strong chl altn of bt flooding. Fracture controlled moderate to strong K-hem altn +/- moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and common fracture filling ep stringers.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
189.89	200.56	0	-	-					MG	1.25
NVS and fine to medium magnetite replacements within bt. Local very strong magnetism within fine to medium magnetite bands.										

SAMPLES

From	To	Sample	
192.89	195.89	*G0*	168002
195.89	198.89	*G0*	168003
198.89	198.89	*G0*	168004
198.89	200.56	*G0*	168005

From	To	Litho	Oxidation Limit
200.56	201.32	pG	

PORPHYRITIC GRANODIORITE
Massive texture , intergrown contact at 50 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl and moderate ep altn of mafics with fracture filling gypsum-anhydrite stringers.
NVS and moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain
200.56	201.31	NA		
		Massive texture		
201.31	201.32	CON	50	
		Intergrown contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
200.56	201.32	M	-	S	M	-	M	-	M	-
		Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl and moderate ep altn of mafics with fracture filling gypsum-anhydrite stringers.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
200.56	201.32	0	-	-					MG	0.5
		NVS and moderate magnetism								

SAMPLES

From	To	Sample
200.56	201.32	*G0* 168006

From	To	Litho	Oxidation Limit
201.32	204.27	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics between 45 - 50 TCA with common bt-MG flooding. Few cross cutting pegmatite-aplite dykes (<20cm). Local breccia vein at about 201.75 5cm thick, gypsum partially hem staining matrix supporting abngular clasts of pervasively chl altered fG fragments. Common local suspended fine grained magnetite-bt clasts. Intergrown contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with common bt-MG flooding. Weak chl-ep altn of bt, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong k-hem altn of feldspars with strong to very strong chl altn of mafics.
NVS and fine to medium magntite replacements within bt and common suspended clasts.

STRUCTURES

From	To	Struct	CA	Strain
201.32	204.26	FOL	45	W
		Weak foliation between 45 - 50 TCA		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample

From	To	Litho	Oxidation Limit
201.32	204.27	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics between 45 - 50 TCA with common bt-MG flooding. Few cross cutting pegmatite-aplite dykes (<20cm). Local breccia vein at about 201.75 5cm thick, gypsum partially hem staining matrix supporting abngular clasts of pervasively chl altered fG fragments. Common local suspended fine grained magnetite-bt clasts. Intergrown contact at 45 TCA.
Very strong potassic altn of mafics to bt-MG with common bt-MG flooding. Weak chl-ep altn of bt, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong k-hem altn of feldspars with strong to very strong chl altn of mafics.
NVS and fine to medium magntite replacements within bt and common suspended clasts.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
201.32	204.27	S	M	VS		-	W	-	VS	-

Very strong potassic altn of mafics to bt-MG with common bt-MG flooding. Weak chl-ep altn of bt, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong k-hem altn of feldspars with strong to very strong chl altn of mafics.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
201.32	204.27	0	-	-					MG	1

NVS and fine to medium magnetite replacements with bt and local suspended magnetite rich clasts.

SAMPLES

From	To	Sample	
201.32	204.27	*G0*	168007

204.26 204.27 CON 45
Intergrown contact

From	To	Litho	Oxidation Limit
204.27	207.12	pG	

PORPHYRITIC GRANODIORITE
Massive texture, few fracture filling gypsum with hematized rims. Intergrown contact at 45 TCA.
Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled weak K-hem altn of feldspars with strong chl altn and moderate ep altn of mafics.
NVS and local weak magnetism.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
204.27	207.12	S	M	S	-	-	M	-	W	-

Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled weak K-hem altn of feldspars with strong chl altn and moderate ep altn of mafics.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
204.27	207.12	0	-	-					MG	0.25

NVS and local weak magnetism.

SAMPLES

From	To	Sample	
204.27	205.27	*G0*	168008

204.27 207.11 NA
Massive texture

From	To	Litho	Oxidation Limit
204.27	207.12	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											205.27	206.12	G0 168009
																											206.12	207.12	G0 168010

207.11 207.12 CON 45
Intergrown contact

From	To	Litho	Oxidation Limit
207.12	208.17	fG	

FOLIATED GRANODIORITE
Weak foliation at 50 TCA, few mm scale wispy gyspum fracture fills with partial hematization. Gypsum-hem fracture filled contact weakly undulated at 30 TCA.
Very strong potassic altn of mafics to bt-MG with weak secondary chl altn of bt. Weak to moderate ser-clay altn of feldspars. Fracture controlled weak k-hem staining/altn of feldspars with moderate chl altn of mafics.
NVS and fine to medium magnetite replacements with bt.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											207.12	208.12	G0 168011
207.12	208.16	FOL	50	W	207.12	208.17	S	M	M	-	-	-	VS	-		207.12	208.17	0	-	-					MG	0.5			
																											208.12	208.12	G0 168012

207.12 208.16 FOL 50 W
Weak foliation

Very strong potassic altn of mafics to bt-MG with weak secondary chl altn of bt. Weak to moderate ser-clay altn of feldspars. Fracture controlled weak k-hem staining/altn of feldspars with moderate chl altn of mafics.

NVS and fine to medium magnetite replacements with bt.

208.16 208.17 CON 30
Gypsum-hem fracture filled contact weakly undulated

From	To	Litho	Oxidation Limit
208.17	215.15	pG	

PORPHYRITIC GRANODIORITE
Massive texture with common cross cutting pegmatite and aplite dykes (<30cm). Abrupt intergrown contact at 45 TCA.
Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl altn of mafics.
NVS and local weak magnetism, local fine to medium magnetite replacements of mafics.

STRUCTURES

From	To	Struct	CA	Strain
208.17	215.14	NA		
Massive texture				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
208.17	215.15	S	M	M	-	-	W	-	S	-
Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with strong chl altn of mafics.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
208.17	215.15	0	-	-					MG	0.1
NVS and local weak magnetism. Local fine to medium magnetite replacements of mafics.										

SAMPLES

From	To	Sample
209.17	210.67	G0 168014
212.65	214.15	G0 168015
214.15	214.15	G0 168016
214.15	215.15	G0 168017

STRUCTURES

From	To	Struct	CA	Strain
215.14	215.15	CON	45	
Abrupt intergrown contact				

From	To	Litho	Oxidation Limit
215.15	237.25	fG	

FOLIATED GRANODIORITE
Intermingling very weak wtih weak foliation of coarse bt altered mafics and local weak strong foliation very similar to highly mineralized banded zones in holes from Minto North. Common cross cutting pegmatite and aplite dykes (<15cm). Numerous mm scale cross cutting gypsum-anhydrite-hem fracture filled stringers. All foliation between 40 - 50 TCA. Digested contact at 60 TCA.
Very strong potassic altn of mafics to bt-MG with common local bt-MG flooding. Weak chl-ep-hem altn of bt. Fracture controlled moderate to strong K-hem altn with moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and local strong overprinting ep altn.
NVS and fine to medium magnetite replacements with bt. Local fine magnetite bands occuring with numerous felsic dykes in weak strong banded foliation.

SAMPLES

From	To	Sample
215.15	218.15	G0 168018

From	To	Litho	Oxidation Limit
215.15	237.25	fG	

FOLIATED GRANODIORITE
Intermingling very weak wtih weak foliation of coarse bt altered mafics and local weak strong foliation very similar to highly mineralized banded zones in holes from Minto North. Common cross cutting pegmatite and aplite dykes (<15cm). Numerous mm scale cross cutting gypsum-anhydrite-hem fracture filled stringers. All foliation between 40 - 50 TCA. Digested contact at 60 TCA.
Very strong potassic altn of mafics to bt-MG with common local bt-MG flooding. Weak chl-ep-hem altn of bt. Fracture controlled moderate to strong K-hem altn with moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and local strong overprinting ep altn.
NVS and fine to medium magnetite replacements with bt. Local fine magnetite bands occuring with numerous felsic dykes in weak strong banded foliation.

STRUCTURES

From	To	Struct	CA	Strain
215.15	227.80	FOL	45	W
		Intermingling very weak to weak foliation of coarse bt.		
227.80	228.30	FOL	50	S
		Weak strong foliation. Felsic dykelets and fine magnetite banded foliation, very similar to highly mineralized banded zones in holes from Minto North.		
228.30	237.24	FOL	45	W
		Intermingling very weak to weak foliation of coarse bt.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
215.15	237.25	S	S	S	-	-	M	-	VS	-
		Very strong potassic altn of mafics to bt-MG with common local bt-MG flooding. Weak chl-ep-hem altn of bt. Fracture controlled moderate to strong K-hem altn with moderate to strong ser-clay altn of feldspars with strong chl altn of mafics and local strong overprinting ep altn.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
215.15	237.25	0	-	-					MG	2
		NVS and fine to medium magnetite replacements with bt. Local fine magnetite bands occuring with numerous felsic dykes in weak strong banded foliation.								

SAMPLES

From	To	Sample	
218.15	221.15	G0	168019
221.15	221.15	G0	168020
221.15	224.15	G0	168021
224.15	227.15	G0	168022
227.15	230.15	G0	168023
230.15	233.15	G0	168024

From	To	Litho	Oxidation Limit
215.15	237.25	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample	
																											233.15	236.15	G0	168025
																											236.15	236.15	G0	168026
																											236.15	237.25	G0	168027

237.24 237.25 CON 60
Digested contact, truncates very weak folaition.

From	To	Litho	Oxidation Limit
237.25	237.65	And	

MAFIC DYKE
Massive fine grained mafic rich groundmass supporting clear/white feldspar and weakly bt altered hornblende phenocrysts. Moderately digestive contact at 60 TCA.
Weak bt altn of hbl.
NVS and weak magnetism.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample	
237.25	237.64	NA																												
Massive texture																														
					237.25	237.65	W	S		-	-		-	W	-	237.25	237.65	0	-	-					MG	0.25	237.25	237.65	G0	168028
					Weak bt altn of hbl.											*NVS and weak magnetism. Fine magnetite with groundmass.*														
237.64	237.65	CON	60																											
Moderately digestive contact																														

From	To	Litho	Oxidation Limit
237.65	238.77	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Abrupt intergrown contact at 65 TCA.
Moderate potassic altn of mafics to bt. Weak chl-ep-hem altn of mafics, moderate silicifcation. Fracture controlled weak K-hme altn of feldspars.
NVS and fine to medium magnetite replacements within bt.

STRUCTURES

From	To	Struct	CA	Strain
237.65	238.76	NA		
Massive texture				
238.76	238.77	CON	65	
Abrupt intergrown contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
237.65	238.77	M		W	M	-	W	-	W	-
Moderate potassic altn of mafics to bt. Weak chl-ep-hem altn of mafics, moderate silicifcation. Fracture controlled weak K-hme altn of feldspars.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
237.65	238.77	0	-	-					MG	0.1
NVS, fine to medium magnetite replacements within bt.										

SAMPLES

From	To	Sample	
237.65	238.77	***G0***	168029

From	To	Litho	Oxidation Limit
238.77	239.80	fG	

FOLIATED GRANODIORITE
Weak foliation between 45 - 55 TCA. Fractured contact at 55 TCA.
Very strong potassic altn of mafics to bt-MG with local bt-MG flooding. Moderate silcification near upper contact. Weak chl-ep altn of mafics. Fracture controlled weak K and strong ser-clay altn of feldspars with strong chl altn of mafics and local strong patchy ep overprinting altn.
NVS and fine to medium sudhedral magnetite altn replacements.

STRUCTURES

From	To	Struct	CA	Strain
238.77	239.79	FOL	50	W
Weak foliation between 45 - 55 TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
238.77	239.80	S	S	S	M	-	S	-	W	-
Very strong potassic altn of mafics to bt-MG with local bt-MG flooding. Moderate silcification near upper contact. Weak chl-ep altn of mafics. Fracture controlled weak K and strong ser-clay altn of feldspars with strong chl altn of mafics and local strong patchy ep overprinting altn.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
238.77	239.80	0	-	-					MG	1.25
NVS and fine to medium subhedral magnetite altn replacements.										

SAMPLES

From	To	Sample	
238.77	239.80	***G0***	168030

From	To	Litho	Oxidation Limit
238.77	239.80	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

239.79 239.80 CON 55
Fractured contact

From	To	Litho	Oxidation Limit
239.80	240.35	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Intergrown contact at 55 TCA.
Weak chl-ep altn of mafics, moderate to strong ser-clay altn of feldspars. Fracture controlled strong K-hem altn of feldspars with strong chl-ep altn of mafics.
NVS and fine magnetite replacements within mafics.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											239.80	239.80	G0 168031
239.80	240.34	NA																											
Massive texture																													
					239.80	240.35	S	S	S		-	S	-	S	-	239.80	240.35	0	-	-					MG	0.5	239.80	240.35	G0 168032
					Weak chl-ep altn of mafics, moderate to strong ser-clay altn of feldspars. Fracture controlled strong K-hem altn of feldspars with strong chl-ep altn of mafics.											*NVS, fine magnetite replacements within mafics.*													
240.34	240.35	CON	55																										
Intergrown contact																													

From	To	Litho	Oxidation Limit
240.35	242.10	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 50 TCA. Local strong breccia veinlet with very strong chl-ep altn of gouge. Few cross cutting pegmatite dykes. Weakly undulated intergrown contact at 30TCA.
Very strong potassic altn of mafics to bt-MG with local bt-MG pooling. Fracture controlled moderate to strong K-hem and strong ser-clay altn of feldspars with strong chl-ep altn of bt and fracture filling ep stringers.
NVS and medium to coarse magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
240.35	242.09	FOL	50	W
		Weak foliation of coarse bt altered mafics.		
242.09	242.10	CON	30	
		Weakly undulated intergrown contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
240.35	242.10	S	S	S	-	-	S	-	VS	-
		Very strong potassic altn of mafics to bt-MG with local bt-MG pooling. Fracture controlled moderate to strong K-hem and strong ser-clay altn of feldspars with strong chl-ep altn of bt and fracture filling ep stringers.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
240.35	242.10	0	-	-					MG	2
		NVS and medium to coarse magnetite altn replacements with bt.								

SAMPLES

From	To	Sample	
240.35	242.10	***G0***	168033

From	To	Litho	Oxidation Limit
242.10	242.80	pG	

PORPHYRITIC GRANODIORITE
Massive texture, strongly undulated intergrown lower contact at 60 TCA.
Weak chl-ep altn of mafics, moderate silicifcation. Fracture controlled moderate K-hem altn haloed by moderate to strong ser-clay altn of feldspars with strong chl-ep altn of mafics.
NVS and fine magnetite replacements within mafics.

STRUCTURES

From	To	Struct	CA	Strain
242.10	242.79	NA		
		Massive texture		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
242.10	242.10	***G0***	168034

From	To	Litho	Oxidation Limit
242.10	242.80	pG	

PORPHYRITIC GRANODIORITE
Massive texture, strongly undulated intergrown lower contact at 60 TCA.
Weak chl-ep altn of mafics, moderate silicifcation. Fracture controlled moderate K-hem altn haloed by moderate to strong ser-clay altn of feldspars with strong chl-ep altn of mafics.
NVS and fine magnetite replacements within mafics.

STRUCTURES

From	To	Struct	CA	Strain
242.79	242.80	CON	60	
		Strongly undulated intergrown contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
242.10	242.80	S	S	S	M	-	S	-	M	-
		Weak chl-ep altn of mafics, moderate silicifcation. Fracture controlled moderate K-hem altn haloed by moderate to strong ser-clay altn of feldspars with strong chl-ep altn of mafics.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
242.10	242.80	0	-	-					MG	0.5
		NVS and fine magnetite replacements within mafics.								

SAMPLES

From	To	Sample	
242.10	242.80	***G0***	168035

From	To	Litho	Oxidation Limit
242.80	243.45	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt at 45 TCA. Single thin (~2cm) cross cutting pegmatite dyke. Sharp contact at 50 TCA.
Very strong potassic altn of mafics to bt-MG with local bt-mg flooding. Weak to moderate chl-ep altn of bt. Local moderate silification. Fracture controlled moderate K-hem altn of feldspars with strong chl-ep altn of mafics.
NVS and fine to medium magnetite altn replacements.

STRUCTURES

From	To	Struct	CA	Strain
242.80	243.44	FOL	45	W
		Weak foliation		
243.44	243.45	CON	50	
		Sharp contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
242.80	243.45	S		M	M	-	M	-	S	-
		Very strong potassic altn of mafics to bt-MG with local bt-mg flooding. Weak to moderate chl-ep altn of bt. Local moderate silification. Fracture controlled moderate K-hem altn of feldspars with strong chl-ep altn of mafics.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
242.80	243.45	0	-	-					MG	1
		NVS and fine to medium magnetite altn replacements.								

SAMPLES

From	To	Sample	
242.80	243.45	***G0***	168036

From	To	Litho	Oxidation Limit
243.45	244.00	Ap	

APLITED DYKE
Massive texture with strong internal fracturing.. Fracture controlled moderate k-hem altn/staining. NVS and non-magnetic. Weakly undulated digestive contact at 30 TCA.

STRUCTURES

From	To	Struct	CA	Strain
243.45	243.99	NA		
	Massive texture			
243.99	244.00	CON	30	
	Weakly undulated digestive contact			

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
243.45	244.00	M	-		-		-	M	-	
	Fracture controlled moderate k-hem altn/staining									

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
243.45	244.00	0	-	-						
	NVS and non-magnetic.									

SAMPLES

From	To	Sample
243.45	244.00	G0 168037

From	To	Litho	Oxidation Limit
244.00	248.65	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Sharp fractured contact at 45 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to very strong K-hem altn of feldspars with strong chl-ep altn of mafics with lcoal fracture filling ep stringers or chl altered gyspsum stringers.
NVS and fine magnetite replacments within mafics.

STRUCTURES

From	To	Struct	CA	Strain
244.00	248.64	NA		
	Massive texture			

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
244.00	248.65	S	S	M	-	S	-	S	-	
	Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to very strong K-hem altn of feldspars with strong chl-ep altn of mafics with lcoal fracture filling ep stringers or chl altered gyspsum stringers.									

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
244.00	248.65	0	-	-					MG	0.5
	NVS and fine magnetite replacements within mafics.									

SAMPLES

From	To	Sample
244.00	245.00	G0 168038
245.00	246.50	G0 168039
246.50	247.65	G0 168040

From	To	Litho	Oxidation Limit
244.00	248.65	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																													G0
																											247.65	248.65	G0	168041

248.64 248.65 CON 45

Sharp fractured contact

From	To	Litho	Oxidation Limit
248.65	250.75	fG	

FOLIATED GRANODIORITE

Weak foliation of coarse bt altered mafics between 40 - 45 TCA. Few cross cutting pegmatite dykes (<5cm). Loca breccia veinlet. Sharp welded contact at 65 TCA.
Very strong potassic altn of mafics to bt-MG with local bt-mg pooling. Weak to moderate chl and weak ep altn of bt. Fracture controlled moderate to strong k-hem altn of feldspars.
NVS and fine magnetite altn replacements.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
248.65	250.74	FOL	45	W																									
Weak foliation of coarse bt altered mafics between 40 - 45 TCA.																													
					248.65	250.75	S	-	M		-	M	-	S	-	248.65	250.75	0	-	-					MG	1	248.65	250.75	G0	168042
					Very strong potassic altn of mafics to bt-MG with local bt-mg pooling. Weak to moderate chl and weak ep altn of bt. Fracture controlled moderate to strong k-hem altn of feldspars.											*NVS and fine magnetite altn replacements.*													

250.74 250.75 CON 65

Sharp welded contact

From	To	Litho	Oxidation Limit
250.75	256.70	pG	

PORPHYRITIC GRANODIORITE
Massive texture within very strong fault zone. Numerous thin annealed fault breccia occurences. Very strong fault zone at base with abundant fault gouge caked onto blocky core fragments and on lower undulated fracture contact at 30 TCA.
Very strong potassic altn of mafics to bt-MG with local bt-MG pooling. Very strong k-hem altn of feldspars with strong to very strong chl altn and local strong ep altn of bt. Local strong hem altn of fault gouge.
NVS and strong magnetism

STRUCTURES

From	To	Struct	CA	Strain
250.75	256.55	BX		VS
		Early very strong fault zone. Numerous thin annealed fault breccias discributed throughout.		
256.55	256.69	FLT	30	
		Reused very strong fault breccia as very strong fault with abundant fault gouge caked onto blocky core fragments		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
250.75	256.70	VS	-	VS	-	-	S	-	VS	-
		Very strong potassic altn of mafics to bt-MG with local bt-MG pooling. Very strong k-hem altn of feldspars with strong to very strong chl altn and local strong ep altn of bt. Local strong hem altn of fault gouge.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
250.75	256.70	0	-	-					MG	1.5
		NVS and strong magnetism								

SAMPLES

From	To	Sample	
250.75	250.75	*G0*	168043
250.75	251.75	*G0*	168045
251.75	253.25	*G0*	168046
253.25	255.30	*G0*	168047
255.30	255.30	*G0*	168048
255.30	256.70	*G0*	168049

From	To	Litho	Oxidation Limit
250.75	256.70	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

256.69 256.70 CON 30

Fractured lower contact with caked fault gouge on fracture face.

From	To	Litho	Oxidation Limit
256.70	257.67	Q	

QUARTZ VEIN SYSTEM
Multiple cross cutting bull quartz veins engulfing clasts of very strongly K-chl-ep altered pG similar to upper unit. Strong undulated low angle TCA fault through pG sliver. Sharp intrusive undulated contact at 45 TCA.
NVS and non-magnetic.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
256.70	256.80	NA																											
Quartz vein																													
					256.70	257.67	VS	-	VS	-	-	S	-	VS	-	256.70	257.67	0	-	-							256.70	257.67	*G0*	168050
					Quartz veins unaltered, engulfed pG fragments contain similar to upper unit altn.											*NVS and non-magnetic.*													
256.80	257.00	FLT	10	S																									
Strong undulated low angle fault with some fault gouge and blocky core fragments																													
257.00	257.66	NA																											
Multiple quartz veins.																													
257.66	257.67	CON	45																										
Sharp intrusive undulated contact																													

From	To	Litho	Oxidation Limit
257.67	276.75	pG	

PORPHYRITIC GRANODIORITE
Massive texture within very strong past and present fault zone. Numerous strong to very strong annealed fault breccias as well as local very strong recent fault with excessive fault gouge supporting subangular pebbles and blocky core. Common thin mm scale gyspum fracture fills. Post very strong fault shows strong internal microfracturing with wispy gypsum fracture fills. Undulated low angle TCA strong fracturing open of pG. Sharp fractured contact at 55 TCA.
Very strong potassic altn of mafics to bt and minor MG. Strong to very strong K-hem altn of feldspars with strong to very strong chl and local strong ep altn of bt.
NVS and local moderate magnetism

STRUCTURES

From	To	Struct	CA	Strain
257.67	267.70	BX		S
		Strong past fault zone with numerous thin strong to very strong fault breccia distibuted and very strong fracturing with gypsum fill.		
267.70	270.70	FLT	50	VS
		Very strong fault zone, excessive fault gouge hosting subangular pebbles, abundant blocky core. Very strong chl-ep altn of fault gouge.		
270.70	276.74	FR		
		Strong internal microfracturing with wispy gypsum fracture fills. Undulated low angle TCA strong fracturing open of pG		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
257.67	276.75	VS	-	VS	-	-	S	-	VS	-
		Very strong potassic altn of mafics to bt and minor MG. Strong to very strong K-hem altn of feldspars with strong to very strong chl and local strong ep altn of bt.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
257.67	276.75	0	-	-					MG	0.5
		NVS and local moderate magnetism								

SAMPLES

From	To	Sample	
257.67	257.67	*G0*	168051
257.67	258.67	*G0*	168052
258.67	260.17	*G0*	168053
274.25	275.75	*G0*	168054

From	To	Litho	Oxidation Limit
257.67	276.75	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																													G0

276.74 276.75 CON 55
Sharp fractured contact

From	To	Litho	Oxidation Limit
276.75	279.96	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 45 TCA. Abrupt contact at 45 TCA.
Strong potassic altn of mafics to bt. Fracture controlled strong k-hem altn of feldspars with strong chl altn of bt and local moderate ep altn of bt with ep fracture filling stringers.
NVS and fine to medium magnetite replacements with bt.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											276.75	278.40	G0 168056
276.75	279.95	FOL	45	W																									
					276.75	279.96	S	-	S	-	-	M	-	S	-	276.75	279.96	0	-	-					MG	1			
																											278.40	278.40	G0 168057
																											278.40	279.96	G0 168059

279.95 279.96 CON 45
Abrupt contact

Weak foliation of coarse bt altered mafics.

Strong potassic altn of mafics to bt. Fracture controlled strong k-hem altn of feldspars with strong chl altn of bt and local moderate ep altn of bt with ep fracture filling stringers.

NVS and fine to medium magnetite replacements with bt.

From	To	Litho	Oxidation Limit
279.96	304.15	pG	

PORPHYRITIC GRANODIORITE
Massive texture with common cross cutting pegmatite and aplite dykes (<30cm). Abundant thin mm scale wispy gypsum filled gractures distributed throughout with local partial to complete hematization. Alteration obliterating any distinction in texture between 286.80m - 289.00m with three locations of very strong bt-MG flooding. Followed by a thin sliver of weakly foliated coarse bt fG (<30cm). Entire unit has been sampled due to local inability to confirm unit identity. Gradational contact likely parallel to lower unit foliation at 50 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K altn of feldspars with strong to very strong chl altn and local moderate ep altn of mafics while haloed by moderate to strong ser-clay altn of feldspars.
NVS and weak magnetism throughout as fine magnetite replacements within mafics. Local strong magnetism within bt-MG flooding with medium magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
279.96	304.14	NA		
Massive texture				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
279.96	304.15	S	S	S	M	-	M	-	S	
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate to strong K altn of feldspars with strong to very strong chl altn and local moderate ep altn of mafics while haloed by moderate to strong ser-clay altn of feldspars.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
279.96	304.15	0	-	-					MG	1
NVS and weak magnetism as fine magnetite replacements of mafics throughout. Local strong magnetism as medium magnetite with bt flooding.										

SAMPLES

From	To	Sample	
279.96	280.96	*G0*	168060
280.96	282.46	*G0*	168061
282.46	285.46	*G0*	168062
285.46	286.80	*G0*	168063
286.80	288.70	*G0*	168064
288.70	288.70	*G0*	168065
288.70	291.70	*G0*	168066
291.70	294.70	*G0*	168067
294.70	297.70	*G0*	168068
297.70	300.70	*G0*	168069
300.70	301.65	*G0*	168070
301.65	303.15	*G0*	168071

From	To	Litho	Oxidation Limit
279.96	304.15	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											303.15	304.15	G0 168072

304.14 304.15 CON 50

Gradational contact

From	To	Litho	Oxidation Limit
309.58	310.40	fG	

FOLIATED GRANODIORITE
Weak foliaiton of coarse mafics at 45 TCA with local thin (~10cm) cross cutting pegmatite dyke. Abrupt contact at 35 TCA.
Weak to moderate chl altn of mafics, fracture controlled moderate K-ser altn of feldspars. Local strong potassic (bt) flooding.
NVS and fine magnetite altn replacement within mafics and local potassic flooding.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
309.58	310.39	FOL	45	W																									
					309.58	310.40	M	M	M	-	-		-	S	-	309.58	310.40	0	-	-					MG	0.75	309.58	310.40	G0 168079

Weak foliation

Weak to moderate chl altn of mafics, fracture controlled moderate K-ser altn of feldspars. Local strong potassic (bt) flooding.

NVS, weak magnetism at fine magnetite replacements with bt and local moderate magnetism in local potassic flooding.

310.39 310.40 CON 35

Abrupt contact

From	To	Litho	Oxidation Limit
310.40	315.33	pG	

PORPHYRITIC GRANODIORITE
Massive texture with local weak fabric. Common cross cutting pegmatite and aplite dykes (<30cm). Weakly undulated intergrown contact at 60 TCA.
Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled weak to moderate K altn of feldspars with moderate to strrong chl altn of mafics.
NVS and weak magnetism with local moderate magnetism at localities of coarsened mafics.

STRUCTURES

From	To	Struct	CA	Strain
310.40	315.32	NA		
		Massive texture		
315.32	315.33	CON	60	
		Weakly undulated intergrown contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
310.40	315.33	M	M	S	-	-	W	-	M	-
		Weak chl-ep altn of mafics, weak to moderate ser-clay altn of feldspars. Fracture controlled weak to moderate K altn of feldspars with moderate to strrong chl altn of mafics.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
310.40	315.33	0	-	-					MG	0.5
		NVS and weak magnetism with local moderate magnetism at local coarsening of mafics.								

SAMPLES

From	To	Sample	
310.40	310.40	***G0***	168080
310.40	311.40	***G0***	168081
311.40	312.90	***G0***	168082
312.90	314.33	***G0***	168083
314.33	315.33	***G0***	168084

From	To	Litho	Oxidation Limit
315.33	325.60	fG	

FOLIATED GRANODIORITE
Weak to weak moderate foliation of coarse mafics at 50 TCA.Few cross cutting pegmatite and aplite dykes (<10cm) and lcoal fine grained mafic band. Moderately digested contact at 60 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate K-ser altn of feldspars with strong chl altn of mafics and lcoal moderate ep altn of mafics with fracture filling ep stringers.
Local fracture controlled fine bornite with equal parts chalcocite replacement commonly associated with ep altn and rarely within thin felsic dykelets. Fine to rare medium magnetite replacements within mafics and local strong magnetism within thin fine grained mafic bands.

STRUCTURES

From	To	Struct	CA	Strain
315.33	325.59	FOL	50	M
325.59	325.60	CON	60	

Weak to weak moderate foliation of coarse mafics.

Moderately digested contact

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
315.33	325.60	S	M	S	M	-	M	-	M	-

Weak chl-ep altn of mafics, moderate silicification. Fracture controlled moderate K-ser altn of feldspars with strong chl altn of mafics and lcoal moderate ep altn of mafics with fracture filling ep stringers.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
315.33	325.60	0	-	-	BO	0.05	CH	0.05	MG	1

Local fracture controlled fine bornite with equal parts chalcocite replacement commonly associated with ep altn and rarely within thin felsic dykelets. Fine to rare medium magnetite replacements within mafics and local strong magnetism within thin fine grained mafic bands.

SAMPLES

From	To	Sample	
315.33	318.00	G0	168085
318.00	321.00	G0	168086
321.00	324.00	G0	168087
324.00	324.00	G0	168088
324.00	325.60	G0	168090

From	To	Litho	Oxidation Limit
325.60	326.44	Ap	

APLITE DYKE
Massive texture. Weakly digestive undulated contact at 40 TCA, trucates lower foliation.
Fracture controlled moderate K-hem altn/staining.
NVS and non-magnetic.

STRUCTURES

From	To	Struct	CA	Strain
325.60	326.43	NA		

Massive texture

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
325.60	326.44	M		-	-		-	M	-	

Fracture controlled moderate K-hem altn/staining.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
325.60	326.44	0	-		-					

NVS and non-magnetic.

SAMPLES

From	To	Sample	
325.60	326.44	*G0*	168091

From	To	CON	40
326.43	326.44		

Weakly digestive undulated contact, truncates lower foliation

From	To	Litho	Oxidation Limit
326.44	360.30	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse mafics to moderate thin linear mafic foliation between 45 - 55 TCA. Few cross cutting pegmatite and aplite dykes (<20cm). Locally common mm scale fracturing filled by gypsum with local partial hematization of chloritization. Strong annealed fault breccia with abundant chl-ep altered fault gouge matrix supporting angular fragments. Local thin (<10cm) fine grained mafic rich bands cross cutting foliation. Intergrown contact at 60 TCA.
Weak chl-ep altn of mafics, local moderate silicification, much more commonly weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with moderate to strong chl altn of mafics with common fracture filling ep stringers.
Fracture controlled fine chalcopyrite associated with ep stringer. Local fine bornite disseminations within mafics. Local fracture controlled siliceous void filling with fine bornite disseminations at 337.00m. Fine to medium magnetite replacements within mafics and local concentrations of fine magnetite within fine grained mafic rich bands

STRUCTURES

From	To	Struct	CA	Strain
326.44	340.97	FOL	50	M

Weak to moderate foliation between 45 - 55 TCA.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
326.44	329.00	*G0*	168092

From	To	Litho	Oxidation Limit
326.44	360.30	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse mafics to moderate thin linear mafic foliation between 45 - 55 TCA. Few cross cutting pegmatite and aplite dykes (<20cm). Locally common mm scale fracturing filled by gypsum with local partial hematization of chloritization. Strong annealed fault breccia with abundant chl-ep altered fault gouge matrix supporting angular fragments. Local thin (<10cm) fine grained mafic rich bands cross cutting foliation. Intergrown contact at 60 TCA.
Weak chl-ep altn of mafics, local moderate silicification, much more commonly weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with moderate to strong chl altn of mafics with common fracture filling ep stringers.
Fracture controlled fine chalcopyrite associated with ep stringer. Local fine bornite disseminations within mafics. Local fracture controlled siliceous void filling with fine bornite disseminations at 337.00m. Fine to medium magnetite replacements within mafics and local concentrations of fine magnetite within fine grained mafic rich bands

STRUCTURES

From	To	Struct	CA	Strain
340.97	341.54	BX		S

Strong annealed fault breccia with strong chl-ep altn of matrix fault gouge supporting subangular fragments of strongly k-hem altered foliated granodiorite

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
326.44	360.30	M	M	S	M	-	M	-	S	-

Weak chl-ep altn of mafics, local moderate silicification, much more commonly weak to moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K-hem altn of feldspars with moderate to strong chl altn of mafics with common fracture filling ep stringers.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
326.44	360.30	0.01	FG	-	BO	0.05			MG	1

Fracture controlled fine chalcopyrite associated with ep stringer. Local fine bornite disseminations within mafics. Local fracture controlled siliceous void filling with fine bornite disseminations at 337.00m. Fine to medium magnetite replacements within mafics and local concentrations of fine magnetite within fine grained mafic rich bands

SAMPLES

From	To	Sample
329.00	332.00	G0 168093
332.00	332.00	G0 168094
332.00	335.00	G0 168095
335.00	338.00	G0 168096
338.00	341.00	G0 168097
341.00	341.00	G0 168098
341.00	344.00	G0 168099

From	To	Litho	Oxidation Limit
326.44	360.30	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
341.54	360.29	FOL	50	M																									
Weak to moderate foliation between 45 - 55 TCA																													
																											344.00	347.00	G0 168100
																											347.00	350.00	G0 168101
																											350.00	353.00	G0 168102
																											353.00	353.00	G0 168103
																											353.00	356.00	G0 168104
																											356.00	359.00	G0 168105
																											359.00	360.30	G0 168106
360.29	360.30	CON	60																										
Intergrown contact																													

From	To	Litho	Oxidation Limit
304.15	304.60	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse mafics at 50 TCA, Abrupt intergrown contact at 50 TCA.
Fracture controlled weak K altn of feldspars with moderate chl altn of mafics.
NVS and medium magnetite replacements within mafics.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
304.15	304.59	FOL	50	W																									
Weak foliation																													
					304.15	304.60	M		M		-		-	W	-	304.15	304.60	0	-	-					MG	0.75	304.15	304.60	G0 168073
					Fracture controlled weak K altn of feldspars with moderate chl altn of mafics.											*NVS and medium magnetite replacements within mafics.*													

From	To	Litho	Oxidation Limit
304.15	304.60	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

304.59 304.60 CON 50

Abrupt intergrown contact

From	To	Litho	Oxidation Limit
304.60	309.58	pG	

PORPHYRITIC GRANODIORITE
Massive porphyritic texture intermingled by eequigranular granodiorite with very weak fabric Common mm scale fractures filled with gypsum. Abrupt contact at 45 TCA, obliquely terminating lower unit foliation.
Weak to local moderate chl-ep altn of mafics, weak to local moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K altn of feldspars with strong chl altn and moderate ep altn of mafics with fracture filling ep stringers.
NVS and weak magnetism.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											304.60	304.60	G0 168074
																											304.60	305.60	G0 168075

304.60 309.57 NA

Massive texture pG intermingled with weak fabric eG.

304.60	309.58	S	M	S		-	M	-	S	-	304.60	309.58	0	-	-						MG	0.25						

Weak to local moderate chl-ep altn of mafics, weak to local moderate ser-clay altn of feldspars. Fracture controlled moderate to strong K altn of feldspars with strong chl altn and moderate ep altn of mafics with fracture filling ep stringers.

NVS and weak magnetism.

305.60	307.10	G0	168076
307.10	308.58	G0	168077
308.58	309.58	G0	168078

From	To	Litho	Oxidation Limit
304.60	309.58	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

309.57 309.58 CON 45

Abrupt contact at 45 TCA, obliquely terminating lower unit foliation.

From	To	Litho	Oxidation Limit
360.30	363.72	pG	

PORPHYRITIC GRANODIORITE
Massive texture with common cross cutting aplite dykes (<15cm). Local fine bt pooling with secondary moderate chl altn over final 25cm to gypsum-hematite filled sharp fracture contact with lower aplite dyke at 45 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak K altn of feldspars with moderate chl-ep altn of mafics. Moderate potassic altn/bt pooling with moderate secondary chl altn over basal 25cm.
NVS and weak magnetism, fine magnetite replacements within mafics.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											360.30	361.30	G0 168107
360.30	363.71	NA																											
Massive texture																													
					360.30	363.72	M		M	M	-	M	-	M	-	360.30	363.72	0	-	-					MG	0.25			
					Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak K altn of feldspars with moderate chl-ep altn of mafics. Moderate potassic altn/bt pooling with moderate secondary chl altn over basal 25cm.											*NVS and weak magnetism, fine magnetite replacements within mafics.*													
																											361.30	362.80	G0 168108
																											362.80	363.72	G0 168109
363.71	363.72	CON	45																										
Gypsum-hematite fracture filled sharp contact with lower aplite dyke.																													

From	To	Litho	Oxidation Limit
363.72	364.50	Ap	

APLITE DYKE
Moderate fabric orientation of fine porphyritic bt-mg and chl altered bt at 55 TCA. Sharp contact at 55 TCA.
Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification.
NVS and weak magnetism.

STRUCTURES

From	To	Struct	CA	Strain
363.72	364.49	FOL	55	M
Moderate fabric orientation of fine porphyritic bt-mg with chl altn of bt				
364.49	364.50	CON	55	
Sharp contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
363.72	364.50	M	-	M	S	-		-	M	-
Fracture controlled moderate k-hem altn/staining. Moderate chl altn of bt phenocrysts. Strong secondary silicification										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
363.72	364.50	0	-	-					MG	0.25
NVS and weak magnetism										

SAMPLES

From	To	Sample	
363.72	364.50	*G0*	168110

From	To	Litho	Oxidation Limit
364.50	365.28	fG	

FOLIATED GRANODIOROITE
Weak foliation at 55 TCA with thin cross cutting aplite dyke. Majority of unit is overprinted by fine grained mafic rich with fine magnetite hosting siliceous aplite dyke clasts. Strongly digested contact at 50 TCA with wall rock engulfment.
Moderate chl-ep altn of mafics, moderate silicification.
NVS and weak to local moderate magnetism.

STRUCTURES

From	To	Struct	CA	Strain
364.50	365.27	FOL	55	W
Weak foliation at 55 TCA though mostly overprinted by intrusive mafic rich with fine magnetite bands.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
364.50	365.28	M	-	M	M	-	M	-	-	-
Moderate chl-ep altn of mafics, moderate silicification.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
364.50	365.28	0	-	-					MG	0.5
NVS and fine magnetite replacement within mafics.										

SAMPLES

From	To	Sample	
364.50	365.28	*G0*	168111

From	To	Litho	Oxidation Limit
364.50	365.28	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
365.27	365.28	CON	50																										

Strongly digested contact with wall rock engulfment

From	To	Litho	Oxidation Limit
365.28	365.90	Ap	

APLITE DYKE
Moderate fabric orientation of fine porphyritic bt-mg and chl altered bt at 55 TCA. Sharp fractured contact at 55 TCA.
Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification.
NVS and weak magnetism.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											365.28	365.28	G0 168112
365.28	365.89	FOL	55	M																									
					365.28	365.90	M	-	M	S	-		-	M	-	365.28	365.90	0	-	-					MG	0.25	365.28	365.90	G0 168113
365.89	365.90	CON	55																										

Moderate fabric oreintation of fine porphyritic bt-mg and chl altered bt

Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification

NVS and weak magnetism

Sharp fractured contact

From	To	Litho	Oxidation Limit
365.90	369.37	pG	

PORPHYRITIC GRANODIORITE
Massive texture, local very weak fabric at 50 TCA. Few cross cutting pegmatite and aplite dykes (<5cm). Weakly digestive contact at 40 TCA.
Weak chl-ep altn of mafics, moderate silicification. Fractuer controlled weak to moderate K-ser altn of feldspars with moderate chl-ep altn of mafics.
NVS and weak magnetism

STRUCTURES					ALTERATION											MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											365.90	366.87	G0 168114
365.90	369.36	NA																											
Massive texture with very weak fabric at 50 TCA.																													
					365.90	369.37	M	M	M	M	-	M	-	W	-	365.90	369.37	0	-	-					MG	0.25			
					Weak chl-ep altn of mafics, moderate silicification. Fractuer controlled weak to moderate K-ser altn of feldspars with moderate chl-ep altn of mafics.											*NVS and weak magnetism*													
																											366.87	368.37	G0 168115
																											368.37	368.37	G0 168116
																											368.37	369.37	G0 168117
369.36	369.37	CON	40																										
Weakly digestive contact																													

From	To	Litho	Oxidation Limit
369.37	378.07	fG	

FOLIATED GRANODIORITE
Weak moderate foliation between 45 - 55 TCA with common cross cutting pegmatite and aplite dykes (<30cm). Locally common thin fine grained mafic rich bands.
Moderately digestive contact at 50 TCA.
Strong potassic altn of mafics to bt-MG. Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak to moderate K altn of feldspars with strong chl altn of mafics.
NVS and fine to medium magnetite altn replacements with bt.

STRUCTURES					ALTERATION											MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											369.37	372.37	G0 168118

From	To	Litho	Oxidation Limit
369.37	378.07	fG	

FOLIATED GRANODIORITE
Weak moderate foliation between 45 - 55 TCA with common cross cutting pegmatite and aplite dykes (<30cm). Locally common thin fine grained mafic rich bands.
Moderately digestive contact at 50 TCA.
Strong potassic altn of mafics to bt-MG. Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak to moderate K altn of feldspars with strong chl altn of mafics.
NVS and fine to medium magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
369.37	378.06	FOL	50	M

Weak moderate foliation

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
369.37	378.07	S	S	M	-	W	-	S	-	

Strong potassic altn of mafics to bt-MG. Weak chl-ep altn of mafics, moderate silicification. Fracture controlled weak to moderate K altn of feldspars with strong chl altn of mafics.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
369.37	378.07	0	-	-					MG	2

NVS and fine to medium magnetite altn replacements with bt.

SAMPLES

From	To	Sample
372.37	372.37	G0 168119
372.37	375.37	G0 168120
375.37	378.07	G0 168121

STRUCTURES

From	To	Struct	CA	Strain
378.06	378.07	CON	50	

Moderately digestive contact

From	To	Litho	Oxidation Limit
378.07	380.25	Ap	

APLITE DYKE
Moderate fabric orientation of fine porphyritic bt-mg and chl altered bt at 45 TCA. Common thin low angle pegmatite and diffuse siliceous eG secondary dyke emplacement. Sharp contact at 45 TCA.
Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification.
NVS and weak to moderate magnetism.

SAMPLES

From	To	Sample
378.07	378.07	G0 168122

From	To	Litho	Oxidation Limit
378.07	380.25	Ap	

APLITE DYKE
Moderate fabric orientation of fine porphyritic bt-mg and chl altered bt at 45 TCA. Common thin low angle pegmatite and diffuse siliceous eG secondary dyke emplacement. Sharp contact at 45 TCA.
Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification.
NVS and weak to moderate magnetism.

STRUCTURES

From	To	Struct	CA	Strain
378.07	380.24	FOL	45	M
		Moderate fabric oreintation of fine porphyritic bt-mg and chl altered bt.		
380.24	380.25	CON	45	
		Sharp contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
378.07	380.25	S	-	M	S	-		M	-	
		Fracture controlled moderate K-hem altn/staining. Moderate chl altn of bt phencrysts. Strong secondary silicification.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
378.07	380.25	0	-	-					MG	0.5
		NVS and weak to moderate magnetism								

SAMPLES

From	To		Sample
		G0	
379.15	380.25	*G0*	168124

From	To	Litho	Oxidation Limit
380.25	389.23	fG	

FOLIATED GRANODIORITE
Weak foliation at 50 TCA with common cross cutting pegmatite and aplite dykes (<20cm) and local fine grained mafic rich band. Drill grind at lower contact, location of contact interpretive with no available orientation due to drill grind.
Strong potassic altn of mafics to bt and medium to coarse magnetite. Weak chl-ep altn of bt. Modereate silicification. Fracture controlled weak to moderate K altn of feldspars with moderate to strong chl altn of bt.
NVS and medium to coarse magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To		Sample
380.25	383.25	*G0*	168125

From	To	Litho	Oxidation Limit
380.25	389.23	fG	

FOLIATED GRANODIORITE
Weak foliation at 50 TCA with common cross cutting pegmatite and aplite dykes (<20cm) and local fine grained mafic rich band. Drill grind at lower contact, location of contact interpretive with no available orientation due to drill grind.
Strong potassic altn of mafics to bt and medium to coarse magnetite. Weak chl-ep altn of bt. Modereate silicification. Fracture controlled weak to moderate K altn of feldspars with moderate to strong chl altn of bt.
NVS and medium to coarse magnetite altn replacements with bt.

STRUCTURES

From	To	Struct	CA	Strain
380.25	389.23	FOL	50	
Weak foliation, lower contact lost due to drill grind				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
380.25	389.23	S	-	S	M	-	W	-	M	-
Strong potassic altn of mafics to bt and medium to coarse magnetite. Weak chl-ep altn of bt. Modereate silicification. Fracture controlled weak to moderate K altn of feldspars with moderate to strong chl altn of bt.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
380.25	389.23	0	-	-					MG	1.5
NVS and medium to coarse magnetite altn replacements with bt.										

SAMPLES

From	To	Sample	
383.25	386.25	*G0*	168126
386.25	386.25	*G0*	168127
386.25	389.23	*G0*	168128

From	To	Litho	Oxidation Limit
389.23	390.50	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Broad undulated intergrown contact at 10 TCA.
Weak chl-ep altn of mafics, moderate to strong silicification. Fracture controlled very weak to weak k-hem altn of feldspars with moderat chl-ep altn of mafics.
NVS and weak magnetism

STRUCTURES

From	To	Struct	CA	Strain
389.23	390.49	NA		
Massive texture				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
389.23	390.50	S	-	M	S	-	M	-	W	-
Weak chl-ep altn of mafics, moderate to strong silicification. Fracture controlled very weak to weak k-hem altn of feldspars with moderat chl-ep altn of mafics.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
389.23	390.50	0	-	-					MG	0.25
NVS and weak magnetism										

SAMPLES

From	To	Sample	
389.23	390.50	*G0*	168129

From	To	Litho	Oxidation Limit
389.23	390.50	pG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

390.49 390.50 CON 10

Broad undulated intergrown contact, cross cut by thin low angle TCA dyke.

From	To	Litho	Oxidation Limit
390.50	394.38	fG	

FOLIATED GRANODIORITE
Weak foliation of at 45 TCA, common thin (<5cm) cross cutting aplite and pegmatite dykes. Rough fractured contact at 45 TCA.
Strong potassic altn of mafics to bt and medium to coarse MG. Weak chl-ep altn of bt. Moderate silicifcation. Fracture controlled weak to moderate K-ser altn of felspars with moderate to strong chl-ep altn of bt.
NVS and medium to coarse magnetite altn replacements.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											390.50	393.00	G0 168130
390.50	394.37	FOL	45	W																									
Weak foliation																													
					390.50	394.38	S	M	S	M	-	S	-	M	-	390.50	394.38	0	-	-					MG	0.75			
					Strong potassic altn of mafics to bt and medium to coarse MG. Weak chl-ep altn of bt. Moderate silicifcation. Fracture controlled weak to moderate K-ser altn of felspars with moderate to strong chl-ep altn of bt.											*NVS and medium to coarse magnetite altn replacements.*													
																											393.00	393.00	G0 168131
																											393.00	394.38	G0 168132
394.37	394.38	CON	45																										
Rough fractured contact																													

From	To	Litho	Oxidation Limit
394.38	402.93	pG	

PORPHYRITIC GRANODIORITE
Massive texture. Abrupt weakly undulated contact at 40 TCA.
Weak chl-ep altn of mafics, moderate to strong silicification. Fracture controlled weak to moderate K-ser altn of feldspars with moderate to strong chl altn of mafics and local moderate ep altn of mafics.
NVS and weak magnetism

STRUCTURES

From	To	Struct	CA	Strain
394.38	402.92	NA		
Massive texture				
402.92	402.93	CON	40	
Weakly undulated contact				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
394.38	402.93	S	M	S	S	-	M	-	M	-
Weak chl-ep altn of mafics, moderate to strong silicification. Fracture controlled weak to moderate K-ser altn of feldspars with moderate to strong chl altn of mafics and local moderate ep altn of mafics.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
394.38	402.93	0	-	-					MG	0.25
NVS and weak magnetism										

SAMPLES

From	To	Sample	
394.38	395.38	*G0*	168133
395.38	396.88	*G0*	168134
400.43	401.93	*G0*	168135
401.93	402.93	*G0*	168136

From	To	Litho	Oxidation Limit
402.93	404.35	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 45 TFCA. Broad undulated contact at 30 TCA with bt-MG pooling at lower contact.
Strong potassic altn of mafics to bt-MG with secondary moderate chl altn of bt. Fracture controlled weak K altn of feldspars with strong chl altn of bt. Moderate to strong silicification.
NVS and medium to coarse magnetite altn replacements with bt, locally concentrated at lower contact with bt pooling.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	

From	To	Litho	Oxidation Limit
402.93	404.35	fG	

FOLIATED GRANODIORITE
Weak foliation of coarse bt altered mafics at 45 TFCA. Broad undulated contact at 30 TCA with bt-MG pooling at lower contact.
Strong potassic altn of mafics to bt-MG with secondary moderate chl altn of bt. Fracture controlled weak K altn of feldspars with strong chl altn of bt. Moderate to strong silicification.
NVS and medium to coarse magnetite altn replacements with bt, locally concentrated at lower contact with bt pooling.

STRUCTURES

From	To	Struct	CA	Strain
402.93	404.34	FOL	45	W
		Weak foliation of coarse bt-MG altered mafics.		
404.34	404.35	CON	30	
		Broad undulated contact with bt-MG pooling at contact		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
402.93	404.35	S	S	S	-	-	W	-		
		Strong potassic altn of mafics to bt-MG with secondary moderate chl altn of bt. Fracture controlled weak K altn of feldspars with strong chl altn of bt. Moderate to strong silicification.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
402.93	404.35	0	-	-					MG	1
		NVS and medium to coarse magnetite altn replacements with bt, locally concentrated within bt pooling at base of unit.								

SAMPLES

From	To	Sample	
402.93	404.35	***G0***	168137

From	To	Litho	Oxidation Limit
404.35	405.00	pG	

PORPHYRITIC GRANODIORITE
Massive texture to end of hole
Weak chl-ep altn of mafics, strong silcification. Fracture controlled weak K altn of feldspars with strong chl-ep altn of mafics.
NVS and weak magnetism.

STRUCTURES

From	To	Struct	CA	Strain
404.35	405.00	NA		
		Massive texture		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
404.35	405.00	S	-	S	S	-	S	-	W	-
		Weak chl-ep altn of mafics, strong silcification. Fracture controlled weak K altn of feldspars with strong chl-ep altn of mafics.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
404.35	405.00	0	-	-					MG	0.25
		NVS and weak magnetism.								

SAMPLES

From	To	Sample	
404.35	404.35	***G0***	168138
404.35	405.00	***G0***	168139

TITLE PAGE

Hole ID	**09SWC535**	***Zone***	**Peg Leg**

Section	UNKNOWN	***Easting***	385403.28	***Source***	Surveyor
Site	Land	***Northing***	6947175.96	***Azimuth***	0
Length	321.51 ***m***	***Elevation***	912.93	***Dip***	-90
		Grid	UTM NAD83		

Logged by	James Scott	***Day Started***	08-Aug-09
Logger #2	NONE	***Day Finished***	11-Aug-09
Geotechnician	Cory Gunson	***Log Completed***	19-Aug-09
Geotechnician #2	NONE	***Last Updated***	19-Aug-09
Geotech Type	SRK		

DIP TESTS (other than Maxibor)

Depth	*Azimuth*	*Dip*	*Type*
18.00	286.50	-89.40	EZ
78.00	288.60	-89.20	EZ
138.00	295.30	-88.90	EZ
198.00	285.40	-89.50	EZ
258.00	289.70	-89.20	EZ
318.00	321.00	-88.90	EZ

Available Analyses:	***Au-AA*** Yes	***ICP*** Yes	***Total Cu*** Yes		
	Au-MET No		***Cu NS*** Yes		

Summary

Exploration drillhole testing the Peg Leg Point showing. Drillhole failed to intersect significant mineralization.

Signature:

Drill Log
Peg Leg

Signature: _____

Initials: _____

09SWC535

From	To	Litho	Oxidation Limit
0.00	3.00	Ob	

Overburden/casing.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
0.00	3.00	NA			0.00	3.00	-	-	-	-	-	-	-	-	-	0.00	3.00	0	-	-									

From	To	Litho	Oxidation Limit
3.00	5.38	fG	

Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined. Very faintly oriented very roughly 45TCA. Unit is highly fractured throughout due to surface effects. Alteration is weak chl-sil with very weak epi and hm. NVS, moderately magnetic. Lower contact is across a fracture oriented at roughly 90TCA.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
3.00	5.37	FOL	45	VW																								
Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined. Very faintly oriented very roughly 45TCA.																												
					3.00	5.38	W	-	W	W	-	VW	-	-	-	3.00	5.38	0	-	-	MG	1.5					3.00	5.38	*G0* 169835
					Alteration is weak chl-sil with very weak epi and hm.											*NVS, moderately magnetic.*													
5.37	5.38	CON	90																										
Lower contact is across a fracture oriented at roughly 90TCA.																												

From	To	Litho	Oxidation Limit
5.38	6.10	Peg	

Felsic dyke. Massive. Weakly altered by hematite. NVS, non-magnetic. Lower contact is across a fracture oriented at roughly 15TCA.

STRUCTURES

From	To	Struct	CA	Strain
5.38	6.09	NA		
Massive.				
6.09	6.10	CON	15	
Lower contact is across a fracture oriented at roughly 15TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
5.38	6.10	W	-	-	-	-	-	-	-	-
Weakly altered by hematite.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
5.38	6.10	0	-	-						
NVS, non-magnetic.										

SAMPLES

From	To	Sample
5.38	6.10	G0 169836

From	To	Litho	Oxidation Limit
6.10	9.42	fG	

Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined. Very faintly oriented very roughly 45TCA. Fault zone from 8.30 to 9.42m (High fracture abundance, dominantly comprised of fragments ~1cm diameter). Alteration is weak to moderate chl-sil with very weak epi and hm. NVS, weakly magnetic. Lower contact is across the 1.12m fault zone, but within the fault fragments of a green-coloured silica-rich dyke or vein are observed. This feature may be a quartz vein hosting very fg chlorite, or it may be some for of fault-related clay gouge overprinted by pervasive silicification.

STRUCTURES

From	To	Struct	CA	Strain
6.10	8.30	FOL	45	VW
Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined. Very faintly oriented very roughly 45TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
6.10	9.42	M	-	M	M	-	W	-	-	-
Alteration is weak to moderate chl-sil with very weak epi and hm.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
6.10	9.42	0	-	-	MG	0.5				
NVS, weakly magnetic.										

SAMPLES

From	To	Sample
6.10	7.76	G0 169837
7.76	7.76	G0 169838
7.76	9.42	G0 169839

From	To	Litho	Oxidation Limit
6.10	9.42	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																													G0

8.30 9.41 FLT

Fault zone - high fracture abundance dominantly comprised of fragments ~1cm diameter.

9.41 9.42 CON

Lower contact is across the 1.12m fault zone, but within the fault fragments of a green-coloured silica-rich dyke or vein are observed. This feature may be a quartz vein hosting very fg chlorite, or it may be some for of fault-related clay gouge overprinted by pervasive silicification.

From	To	Litho	Oxidation Limit
9.42	14.36	pG	

Kspar porphyritic granodiorite. Massive. Fault zone from 10.20 to 11.10m (High fracture abundance, local gouge), and from 13.30 to 14.36m (High fracture abundance, common gouge and clay). Alteration is moderate chl-sil-epi with zones of moderate fracture-controlled hm+/-ser. NVS, very weakly magnetic. Lower contact is fault contact, with similar green-silicified zone as observed at the top of the unit.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											9.42	9.42	G0	169840

9.42 10.20 NA

Massive.

9.42	10.42	G0	169841

From	To	Litho	Oxidation Limit
9.42	14.36	pG	

Kspar porphyritic granodiorite. Massive. Fault zone from 10.20 to 11.10m (High fracture abundance, local gouge), and from 13.30 to 14.36m (High fracture abundance, common gouge and clay). Alteration is moderate chl-sil-epi with zones of moderate fracture-controlled hm+/-ser. NVS, very weakly magnetic. Lower contact is fault contact, with similar green-silicified zone as observed at the top of the unit.

STRUCTURES

From	To	Struct	CA	Strain
10.20	11.10	FLT		
Fault zone. High fracture abundance, local gouge.				
11.10	13.30	NA		
Massive.				
13.30	14.35	FLT		
Fautl zone. High fracture abundance, common gouge and clay.				
14.35	14.36	CON		
Lower contact is fault contact, with similar green-silicified zone as observed at the top of the unit.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
9.42	14.36	M	VW	M	M	-	M	-	-	-
Alteration is moderate chl-sil-epi with zones of moderate fracture-controlled hm+/-ser.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
9.42	14.36	0	-	-	MG	0.25				
VS, very weakly magnetic.										

SAMPLES

From	To	Sample	
10.42	11.89	*G0*	169842
11.89	13.36	*G0*	169843
13.36	14.36	*G0*	169844

From	To	Litho	Oxidation Limit
14.36	16.92	fG	

Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined, and locally wanes down to nonfoliated and waxes to weakly foliated. Weakly foliated zones are observed to exhibit a fabric at roughly 50TCA. Alteration is moderate to locally strong chl-epi-sil with moderate hematite staining of feldspars. NVS, moderately magnetic. Lower contact is sharp across a fracture oriented at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
14.36	16.91	FOL	50	VW
Very weakly foliated granodiorite with fabric orientation too weak to be reliably determined, and locally wanes down to nonfoliated and waxes to weakly foliated. Weakly foliated zones are observed to exhibit a fabric at roughly 50TCA.				
16.91	16.92	CON	70	
Lower contact is sharp across a fracture oriented at roughly 70TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
14.36	16.92	S	-	S	M	-	S	-	-	-
Alteration is moderate to locally strong chl-epi-sil with moderate hematite staining of feldspars.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
14.36	16.92	0	-	-	MG	1.5				
NVS, moderately magnetic.										

SAMPLES

From	To	Sample
14.36	16.92	*G0* 169845

From	To	Litho	Oxidation Limit
16.92	19.51	pG	

Kspar porphyritic granodiorite. Massive. Alteration is weak to very weak chl-epi. NVS, moderately magnetic. Lower contact is gradational over ~4cm.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample
16.92	16.92	*G0* 169846
16.92	18.21	*G0* 169847

From	To	Litho	Oxidation Limit
16.92	19.51	pG	

Kspar porphyritic granodiorite. Massive. Alteration is weak to very weak chl-epi. NVS, moderately magnetic. Lower contact is gradational over ~4cm.

STRUCTURES

From	To	Struct	CA	Strain
16.92	19.50	NA		
Massive.				
19.50	19.51	CON		
Lower contact is gradational over ~4cm.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
16.92	19.51	VW	-	VW	-	-	VW	-	-	-
Alteration is weak to very weak chl-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
16.92	19.51	0	-	-	MG	1.5				
NVS, moderately magnetic.										

SAMPLES

From	To	Sample
18.21	19.51	G0 169848

From	To	Litho	Oxidation Limit
19.51	88.97	fG	

Very weakly foliated granodiorite dominated by coarse-grained mafic grains altered to chlorite and locally epidote. Orientation of fabric is difficult to discern, but appears to be very approximately 45TCA. Massive . Fault zone from 58.85 to 59.15m (Gouge and rubble). Alteration is dominantly weak to moderate chl-epi-sil commonly overprinted by zones of strong to very strong epidote alteration and alternatively zones of pervasive hematite staining of feldspars imparting a flesh-coloured tinge to the rock. Unit is commonly xcut by pegmatite and aplite dykes <30cm wide. Unit is often xcut by epidote and carbonate veins. Rarely carbonate veins are coloured deeply purple, indicating a likely source for abundant hematite staining of feldspars. Local weak diffuse blue colour/staining imparted to qtz and plagioclase grains, possibly malachite after sub-visible sulphides. In one instance, a single <1mm grain of bornite is observed at the centre of the blue staining, and in another instance, a 2mm grain of magnetite. Local subtrace malachite as very fine isolated grains, typically associated with qtz-carb-epi veinlets. Moderately magnetic. Lower contact is sharp intrusive oriented at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
19.51	58.85	FOL	45	VW
Very weakly foliated granodiorite dominated by coarse-grained mafic grains altered to chlorite and locally epidote. Orientation of fabric is difficult to discern, but				

SAMPLES

From	To	Sample
19.51	22.00	G0 169849

From	To	Litho	Oxidation Limit
19.51	88.97	fG	

Very weakly foliated granodiorite dominated by coarse-grained mafic grains altered to chlorite and locally epidote. Orientation of fabric is difficult to discern, but appears to be very approximately 45TCA. Massive . Fault zone from 58.85 to 59.15m (Gouge and rubble). Alteration is dominantly weak to moderate chl-epi-sil commonly overprinted by zones of strong to very strong epidote alteration and alternatively zones of pervasive hematite staining of feldspars imparting a flesh-coloured tinge to the rock. Unit is commonly xcut by pegmatite and aplite dykes <30cm wide. Unit is often xcut by epidote and carbonate veins. Rarely carbonate veins are coloured deeply purple, indicating a likely source for abundant hematite staining of feldspars. Local weak diffuse blue colour/staining imparted to qtz and plagioclase grains, possibly malachite after sub-visible sulphides. In one instance, a single <1mm grain of bornite is observed at the centre of the blue staining, and in another instance, a 2mm grain of magnetite. Local subtrace malachite as very fine isolated grains, typically associated with qtz-carb-epi veinlets. Moderately magnetic. Lower contact is sharp intrusive oriented at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
		appears to be very approximately 45TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
19.51	88.97	S	-	S	W	-	S	-	-	-

Alteration is dominantly weak to moderate chl-epi-sil commonly overprinted by zones of strong to very strong epidote alteration and alternatively zones of pervasive hematite staining of feldspars imparting a flesh-coloured tinge to the rock.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
19.51	88.97	0	FG	-	MC	0.01	MG	2		

Local subtrace malachite as very fine isolated grains, typically associated with qtz-carb-epi veinlets. Moderately magnetic.

SAMPLES

From	To	Sample
22.00	22.00	G0 169850
22.00	25.00	G0 169851
25.00	28.00	G0 169852
28.00	31.00	G0 169853
31.00	34.00	G0 169854
34.00	37.00	G0 169855
37.00	40.00	G0 169856
40.00	43.00	G0 169857
43.00	46.00	G0 169858
46.00	46.00	G0 169859
46.00	49.00	G0 169860
49.00	52.00	G0 169861

From	To	Litho	Oxidation Limit
19.51	88.97	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES			
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample	
																													G0	
																											55.00	55.00	G0	169863
																											55.00	58.00	G0	169864
																											58.00	61.00	G0	169865

58.85 59.15 FLT

Fault zone. Gouge and rubble.

59.15 88.96 FOL 45 VW

Very weakly foliated granodiorite dominated by coarse-grained mafic grains altered to chlorite and locally epidote. Orientation of fabric is difficult to discern, but appears to be very approximately 45TCA.

																											61.00	64.00	G0	169866
																											64.00	67.00	G0	169867
																											67.00	67.00	G0	169868
																											67.00	70.00	G0	169869
																											70.00	73.00	G0	169870
																											73.00	76.00	G0	169871
																											76.00	79.00	G0	169872
																											79.00	79.00	G0	169873
																											79.00	82.00	G0	169874
																											82.00	85.00	G0	169875

From	To	Litho	Oxidation Limit
19.51	88.97	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											85.00	88.00	G0 169876
																											88.00	88.00	G0 169877
																											88.00	88.97	G0 169878

88.96 88.97 CON 70

Lower contact is sharp intrusive oriented at roughly 70TCA.

From	To	Litho	Oxidation Limit
88.97	89.82	Peg	

Felsic dyke. Massive. Strongly altered by silica. NVS, non-magnetic. Lower contact is sharp across a fracture oriented at roughly 80TCA.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
					88.97	89.82	S	-	-	S	-	-	-	-	-	88.97	89.82	0	-	-							88.97	89.82	G0 169879

88.97 89.81 NA

Massive.

Strong silicification.

NVS, non-magnetic.

89.81 89.82 CON 80

Lower contact is sharp across a fracture oriented at roughly 80TCA.

From	To	Litho	Oxidation Limit
89.82	104.85	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Fault from 89.82 to 91.50m (High fracture abundance, sericite alteration). Locally fabric and coarseness wane into zones with lesser mafics, although still believed to be part of the same intrusive body (typically <30cm). Unit is commonly xcut by pegmatite and aplite dykes <30cm. Alteration is very weak bt-epi with local fracture-controlled hm. NVS, strongly magnetic. Lower contact is sharp across a fracture oriented at roughly 80TCA.

STRUCTURES

From	To	Struct	CA	Strain
89.82	91.50	FLT		
		Fault. High fracture abundance.		
91.50	104.84	FOL	45	VW
		Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.		
104.84	104.85	CON	80	
		Lower contact is sharp across a fracture oriented at roughly 80TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
89.82	104.85	VW	-	-	-	-	VW	-	VW	-
		Alteration is very weak bt-epi with local fracture-controlled hm.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
89.82	104.85	0	-	-	MG	3				
		NVS, strongly magnetic.								

SAMPLES

From	To		Sample
89.82	92.85	G0	169880
92.85	92.85	G0	169881
92.85	95.85	G0	169882
95.85	98.85	G0	169883
98.85	101.85	G0	169884
101.85	104.85	G0	169885

From	To	Litho	Oxidation Limit
104.85	107.83	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-epi. NVS, weakly magnetic. Unit is commonly xcut by pegmatite, aplite, and mafic dykes <10cm.
Lower contact is sharp intrusive, oriented at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
104.85	107.82	NA		
	Massive.			
107.82	107.83	CON	70	
	Lower contact is sharp intrusive, oriented at roughly 70TCA.			

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
104.85	107.83	VW	-	-	-	-	VW	-	VW	-
	Alteration is very weak bt-epi.									

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
104.85	107.83	0	-	-	MG	1				
	NVS, weakly magnetic.									

SAMPLES

From	To		Sample
104.85	104.85	*G0*	169886
104.85	105.85	*G0*	169887
105.85	106.83	*G0*	169888
106.83	107.83	*G0*	169889

From	To	Litho	Oxidation Limit
107.83	129.17	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable.
Unit is commonly xcut by pegmatite, aplite, and mafic dykes <30cm. Alteration is very weak bt-epi with local fracture-controlled hm-epi. NVS, strongly magnetic. Lower contact is sharp, oriented at roughly 30TCA.

STRUCTURES

From	To	Struct	CA	Strain
107.83	129.16	FOL	45	VW
	Very weakly foliated granodiorite with coarsening of mafic minerals and very			

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To		Sample
107.83	108.17	*G0*	169890

From	To	Litho	Oxidation Limit
107.83	129.17	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Unit is commonly xcut by pegmatite, aplite, and mafic dykes <30cm. Alteration is very weak bt-epi with local fracture-controlled hm-epi. NVS, strongly magnetic. Lower contact is sharp, oriented at roughly 30TCA.

STRUCTURES

From	To	Struct	CA	Strain
faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable.				
129.16	129.17	CON	30	
Lower contact is sharp, oriented at roughly 30TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
107.83	129.17	VW	-	-	-	-	VW	-	VW	-
Alteration is very weak bt-epi with local fracture-controlled hm-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
107.83	129.17	0	-	-	MG	3				
NVS, strongly magnetic.										

SAMPLES

From	To	Sample	
108.17	111.17	*G0*	169891
111.17	111.17	*G0*	169892
111.17	114.17	*G0*	169893
114.17	117.17	*G0*	169894
117.17	120.17	*G0*	169895
120.17	123.17	*G0*	169896
123.17	126.17	*G0*	169897
126.17	126.17	*G0*	169898
126.17	129.17	*G0*	169899

From	To	Litho	Oxidation Limit
129.17	130.45	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-epi. NVS, moderately magnetic. Lower contact is weakly diffuse, oriented at roughly 30TCA.

STRUCTURES

From	To	Struct	CA	Strain
129.17	130.44	NA		
		Massive.		
130.44	130.45	CON	30	
		Lower contact is weakly diffuse, oriented at roughly 30TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
129.17	130.45	VW	-	-	-	-	VW	-	VW	-
		Alteration is very weak bt-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
129.17	130.45	0	-	-	MG	1.5				
		NVS, moderately magnetic.								

SAMPLES

From	To	Sample	
129.17	129.17	*G0*	169900
129.17	130.45	*G0*	169901

From	To	Litho	Oxidation Limit
130.45	132.56	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Alteration is very weak bt-epi with local fracture-controlled hm-epi. Subtrace native copper observed as discrete grains locally (three grains observed in total), strongly magnetic. Lower contact is sharp across a fracture oriented at roughly 90TCA.

STRUCTURES

From	To	Struct	CA	Strain
130.45	132.55	FOL	45	VW
		Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
130.45	132.56	VW	-	-	-	-	VW	-	VW	-
		Alteration is very weak bt-epi with local fracture-controlled hm-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
130.45	132.56	0	FG	-	NC	0.01	MG	3		
		Subtrace native copper observed as discrete grains locally (three grains observed in total), strongly magnetic.								

SAMPLES

From	To	Sample	
130.45	132.56	*G0*	169902

From	To	Litho	Oxidation Limit
130.45	132.56	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

132.55 132.56 CON 90

Lower contact is sharp across a fracture oriented at roughly 90TCA.

From	To	Litho	Oxidation Limit
132.56	133.13	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-sil with fracture-controlled hm-epi. NVS, weakly magnetic. Lower contact is sharp, oriented at roughly 30TCA separated by a 1cm-wide qtz-epi vein.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

132.56 133.12 NA

Massvie.

132.56	133.13	VW	-	-	VW	-	VW	-	VW	-		132.56	133.13	0	-	-	MG	0.5									132.56	133.13	*G0*	169903

Alteration is very weak bt-sil-epi with fracture-controlled hm-epi. *NVS, weakly magnetic.*

133.12 133.13 CON 30

Lower contact is sharp, oriented at roughly 30TCA separated by a 1cm-wide qtz-epi vein.

From	To	Litho	Oxidation Limit
133.13	145.42	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Fault zone from 140.30 to 141.00m (High fracture abundance). Alteration is weak to moderate bt-epi with local fracture-controlled hm-epi-chl. Subtrace native copper observed as one single discrete grain, strongly magnetic. Lower contact is sharp intrusive, oriented at roughly 50TCA.

STRUCTURES

From	To	Struct	CA	Strain
133.13	140.30	FOL	45	VW
140.30	141.00	FLT		
141.00	145.41	FOL	45	VW

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.

Fault zone. High fracture abundance.

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
133.13	145.42	VW	-	VW	-	-	VW	-	VW	-

Alteration is very weak bt-epi-chl with local fracture-controlled hm-epi.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
133.13	145.42	0	FG	-	NC	0.01	MG	2.5		

Subtrace native copper observed as one single discrete grain, strongly magnetic.

SAMPLES

From	To	Sample	
133.13	136.13	G0	169904
136.13	139.13	G0	169905
139.13	142.27	G0	169906
142.27	142.27	G0	169907
142.27	145.42	G0	169908

From	To	Litho	Oxidation Limit
133.13	145.42	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

145.41 145.42 CON 50

Lower contact is sharp intrusive, oriented at roughly 50TCA.

From	To	Litho	Oxidation Limit
145.42	146.74	Ap	

Aplite dyke. Massive. Strongly altered by hematite staining of feldspars, epidote alteration dominantly as veins, and very strong pervasive silicification. NVS, non-magnetic. Lower contact is sharp intrusive, oriented at roughly 40TCA.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											145.42	145.42	G0 169909
145.42	146.73	NA																											
Massive.																													
					145.42	146.74	VS	-	-	VS	-	VW	-	-	-	145.42	146.74	0	-	-							145.42	146.74	G0 169910
					Strongly altered by hematite staining of feldspars, epidote alteration dominantly as veins, and very strong pervasive silicification.											*NVS, non-magnetic.*													
146.73	146.74	CON	40																										
Lower contact is sharp intrusive, oriented at roughly 40TCA.																													

From	To	Litho	Oxidation Limit
146.74	149.36	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak to weak bt-sil-epi with local fracture-controlled chl-epi-hm. Subtrace native copper observed as one very small (<1mm) agregate of individual grains. Strongly magnetic. Lower contact is sharp, oriented at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
146.74	149.35	NA		
		Massive.		
149.35	149.36	CON	70	
		Lower contact is sharp, oriented at roughly 70TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
146.74	149.36	W	-	VW	W	-	VW	-	W	-
		Alteration is very weak to weak bt-sil-epi with local fracture-controlled chl-epi-hm.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
146.74	149.36	0	FG	-	NC	0.01	MG	2		
		Subtrace native copper observed as one very small (<1mm) agregate of individual grains. Strongly magnetic.								

SAMPLES

From	To	Sample	
146.74	148.36	*G0*	169911
148.36	149.36	*G0*	169912

From	To	Litho	Oxidation Limit
149.36	170.31	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Unit is commonly xcut by pegmatite, aplite, and mafic dykes <30cm. Quartz and epidote veins are also common, <20cm wide. Alteration is moderate bt-sil with very weak epi-chl, mainly fracture-controlled with hematite staining of feldspars. Two very small discrete grains of some sort of metallic mineral are present within a 4cm quartz vein centered at 165.68m, but are too small to be identified. A very weak <<1mm possibly limonitic halo surrounds each grain. Unit is strongly magnetic. Lower contact is diffuse/gradational over ~15cm where fabric wanes, waxes, and wanes again.

STRUCTURES

From	To	Struct	CA	Strain
149.36	170.30	FOL	45	VW
		Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
149.36	152.31	*G0*	169913

From	To	Litho	Oxidation Limit
149.36	170.31	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Unit is commonly xcut by pegmatite, aplite, and mafic dykes <30cm. Quartz and epidote veins are also common, <20cm wide. Alteration is moderate bt-sil with very weak epi-chl, mainly fracture-controlled with hematite staining of feldspars. Two very small discrete grains of some sort of metallic mineral are present within a 4cm quartz vein centered at 165.68m, but are too small to be identified. A very weak <<1mm possibly limonitic halo surrounds each grain. Unit is strongly magnetic. Lower contact is diffuse/gradational over ~15cm where fabric wanes, waxes, and wanes again.

STRUCTURES

From	To	Struct	CA	Strain

approximately 45TCA. Texture is variable.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
149.36	170.31	M	-	VW	M	-	VW	-	M	-

Alteration is moderate bt-sil with very weak epi-chl, mainly fracture-controlled with hematite staining of feldspars.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
149.36	170.31	0	-	-	MG	3				

Two very small discrete grains of some sort of metallic mineral are present within a 4cm quartz vein centered at 165.68m, but are too small to be identified. A very weak <<1mm possibly limonitic halo surrounds each grain. Unit is strongly magnetic.

SAMPLES

From	To	Sample	
152.31	155.31	***G0***	169914
155.31	158.31	***G0***	169915
158.31	161.31	***G0***	169916
161.31	161.31	***G0***	169917
161.31	164.31	***G0***	169918
164.31	167.31	***G0***	169919
167.31	170.31	***G0***	169920

STRUCTURES

From	To	Struct	CA	Strain
170.30	170.31	CON		

Lower contact is diffuse/gradational over ~15cm where fabric wanes, waxes, and wanes again.

From	To	Litho	Oxidation Limit
170.31	174.11	pG	

Kspar porphyritic granodiorite. Massive. Alteration is weak bt-sil-chl-epi. NVS, strongly magnetic. Lower contact is sharp across a quartz vein oriented at roughly 45TCA.

STRUCTURES

From	To	Struct	CA	Strain
170.31	174.10	NA		
		Massive.		
174.10	174.11	CON	45	
		Lower contact is sharp across a quartz vein oriented at roughly 45TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
170.31	174.11	W	-	W	W	-	VW	-	W	-
		Alteration is weak bt-sil-chl-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
170.31	174.11	0	-	-	MG	2.5				
		NVS, strongly magnetic.								

SAMPLES

From	To	Sample
170.31	170.31	G0 169921
170.31	171.31	G0 169922
171.31	173.11	G0 169923
173.11	174.11	G0 169924

From	To	Litho	Oxidation Limit
174.11	174.81	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Alteration is weawk to moderate bt-sil-chl-epi with local hm staining of feldspars. NVS, strongly magnetic. Lower contact is sharp across a fracture oriented at roughly 40TCA.

STRUCTURES

From	To	Struct	CA	Strain
174.11	174.80	FOL	45	VW
		Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.		

From	To	Litho	Oxidation Limit
174.11	174.81	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Alteration is weawk to moderate bt-sil-chl-epi with local hm staining of feldspars. NVS, strongly magnetic. Lower contact is sharp across a fracture oriented at roughly 40TCA.

STRUCTURES

From	To	Struct	CA	Strain

Texture is variable.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
174.11	174.81	M	-	W	M	-	W	-	M	-

Alteration is weak to moderate bt-sil-chl-epi with local hm staining of feldspars.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
174.11	174.81	0	-	-	MG	2.5				

NVS, strongly magnetic.

SAMPLES

From	To	Sample
174.11	174.81	G0 169925

174.80 174.81 CON 40

Lower contact is sharp across a fracture oriented at roughly 40TCA.

From	To	Litho	Oxidation Limit
174.81	175.71	Ap	

Aplite dyke. Massive. Very strongly pervasively silicified over weak hm-chl. NVS, non-magnetic. Lower contact is sharp intrusive, oriented at roughly 50TCA.

STRUCTURES

From	To	Struct	CA	Strain
174.81	175.70	NA		

Massive.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
174.81	175.71	VS	-	W	VS	-	-	-	-	-

Very strongly pervasively silicified over weak hm-chl.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
174.81	175.71	0	-	-						

NVS, non-magnetic.

SAMPLES

From	To	Sample
174.81	175.71	G0 169926

175.70 175.71 CON 50

Lower contact is sharp intrusive, oriented at roughly 50TCA.

From	To	Litho	Oxidation Limit
175.71	179.35	pG	

Kspar porphyritic granodiorite. Massive. Unit is locally xcut by aplite dykes <25cm wide. Alteration is weak to very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is diffuse over ~2cm.

STRUCTURES

From	To	Struct	CA	Strain
175.71	179.34	NA		
		Massive.		
179.34	179.35	CON		
		Lower contact is diffuse over ~2cm.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
175.71	179.35	VW	-	-	VW	-	VW	-	VW	-
		Alteration is weak to very weak bt-sil-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
175.71	179.35	0	-	-	MG	1				
		NVS, weakly magnetic.								

SAMPLES

From	To	Sample	
175.71	176.85	*G0*	169927
176.85	178.35	*G0*	169928
178.35	179.35	*G0*	169929

From	To	Litho	Oxidation Limit
179.35	182.80	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. Alteration is moderate bt-sil-chl-epi. NVS, strongly magnetic. Lower contact is sharp intrusive, oriented at roughly 90TCA.

STRUCTURES

From	To	Struct	CA	Strain
179.35	182.79	FOL	45	VW
		Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.		

SAMPLES

From	To	Sample	
179.35	181.35	*G0*	169930

From	To	Litho	Oxidation Limit
179.35	182.80	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable.
Alteration is moderate bt-sil-chl-epi. NVS, strongly magnetic. Lower contact is sharp intrusive, oriented at roughly 90TCA.

STRUCTURES

From	To	Struct	CA	Strain
182.79	182.80	CON	90	
Lower contact is sharp intrusive, oriented at roughly 90TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
179.35	182.80	M	-	W	M	-	W	-	M	-
Alteration is moderate bt-sil-chl-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
179.35	182.80	0	-	-	MG	3				
NVS, strongly magnetic.										

SAMPLES

From	To	Sample	
181.35	181.35	*G0*	169931
181.35	182.80	*G0*	169932

From	To	Litho	Oxidation Limit
182.80	183.57	Ap	

Aplite dyke. Massive. Unaltered. NVS, non-magnetic. Lower contact is sharp intrusive oriented at roughly 90TCA.

STRUCTURES

From	To	Struct	CA	Strain
182.80	183.56	NA		
Massive.				
183.56	183.57	CON	90	
Lower contact is sharp intrusive oriented at roughly 90TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
182.80	183.57	-	-	-	-	-	-	-	-	-
Unaltered.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
182.80	183.57	0	-	-						
NVS, non-magnetic.										

SAMPLES

From	To	Sample	
182.80	182.80	*G0*	169933
182.80	183.57	*G0*	169934

From	To	Litho	Oxidation Limit
183.57	213.86	fG	

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA. Texture is variable. The unit is commonly xcut by aplite and pegmatite dykes <30cm. Alteration is moderate bt-chl-epi-sil. Subtrace native copper as very rare discrete grains. One single grain of cpy observed. Strongly to very strongly magnetic. Lower contact is sharp intrusive oriented at roughly 30TCA.

STRUCTURES

From	To	Struct	CA	Strain
183.57	213.85	FOL	45	VW

Very weakly foliated granodiorite with coarsening of mafic minerals and very faint fabric development, interpreted to be at very approximately 45TCA.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
183.57	213.86	M	-	M	M	-	M	-	M	-

Alteration is moderate bt-chl-epi-sil.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
183.57	213.86	0.01	FG	-	MG	4	NC	0.01		

Subtrace native copper as very rare discrete grains. One single grain of cpy observed. Strongly to very strongly magnetic.

SAMPLES

From	To		Sample
183.57	186.00	G0	169935
186.00	189.00	G0	169936
189.00	192.00	G0	169937
192.00	192.00	G0	169938
192.00	195.00	G0	169939
195.00	198.00	G0	169940
198.00	201.00	G0	169941
201.00	201.00	G0	169942
201.00	204.00	G0	169943
204.00	207.00	G0	169944
207.00	210.00	G0	169945
210.00	213.00	G0	169946
213.00	213.00	G0	169947

From	To	Litho	Oxidation Limit
183.57	213.86	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																													G0

213.85 213.86 CON 30

Lower contact is sharp intrusive oriented at roughly 30TCA.

From	To	Litho	Oxidation Limit
213.86	237.80	And	

Diorite to tonalite dyke. Medium-grained, massive. Locally xcut by diffuse aplite dykes <15cm wide. Alteration is very weak chl-epi with some weak fracture-controlled hematite staining of plagioclase. NVS, weakly magnetic. Lower contact is sharp across a fracture oriented at roughly 40TCA.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											213.86	213.86	G0 169949
																											213.86	214.86	G0 169950

213.86 237.79 NA

Massive.

213.86 237.80 VW - VW - - VW - - - 213.86 237.80 0 - - MG 0.5

Alteration is very weak chl-epi with some weak fracture-controlled hematite staining of plagioclase.

NVS, weakly magnetic.

214.86 216.36 G0 169951

235.30 236.80 G0 169952

236.80 237.80 G0 169953

237.79 237.80 CON 40

Lower contact is sharp across a fracture oriented at roughly 40TCA.

From	To	Litho	Oxidation Limit
237.80	238.69	fG	

Very weakly foliated granodiorite with fabric oriented at roughly 40TCA. Alteration is weak to very weak bt-chl-epi. NVS, moderately magnetic. Lower contact is sharp at roughly 30TCA, with mafic minerals in overlying fG being partially disagregated.

STRUCTURES

From	To	Struct	CA	Strain
237.80	238.68	FOL	40	VW
		Very weakly foliated granodiorite with fabric oriented at roughly 40TCA.		
238.68	238.69	CON	30	
		Lower contact is sharp at roughly 30TCA, with mafic minerals in overlying fG being partially disagregated.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
237.80	238.69	VW	-	VW	-	-	VW	-	VW	-
		Alteration is weak to very weak bt-chl-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
237.80	238.69	0	-	-	MG	1				
		NVS, moderately magnetic.								

SAMPLES

From	To	Sample
237.80	238.69	***G0*** 169954

From	To	Litho	Oxidation Limit
238.69	239.47	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is sharp across a fracture oriented at roughly 80TCA.

STRUCTURES

From	To	Struct	CA	Strain
238.69	239.46	NA		
		Massive.		
239.46	239.47	CON	80	
		Lower contact is sharp across a fracture oriented at roughly 80TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
238.69	239.47	VW	-	-	VW	-	VW	-	VW	-
		Alteration is very weak bt-sil-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
238.69	239.47	0	-	-	MG	0.5				
		NVS, weakly magnetic.								

SAMPLES

From	To	Sample
238.69	239.47	***G0*** 169955

From	To	Litho	Oxidation Limit
239.47	243.72	fG	

Very weakly foliated granodiorite with fabric oriented at roughly 40TCA. Foliation locally gives way to or is intruded by pG units <30cm wide. Unit is also locally xcut by late mafic dykes <10cm wide. Alteration is weak to very weak bt-chl-epi. NVS, strongly magnetic. Lower contact is sharp at roughly 40TCA.

STRUCTURES

From	To	Struct	CA	Strain
239.47	243.71	FOL	40	VW

Very weakly foliated granodiorite with fabric oriented at roughly 40TCA. Foliation locally gives way to or is intruded by pG units <30cm wide.

From	To	Struct	CA	Strain
243.71	243.72	CON	40	

Lower contact is sharp at roughly 40TCA.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
239.47	243.72	VW	-	VW	-	-	VW	-	VW	-

Alteration is weak to very weak bt-chl-epi.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
239.47	243.72	0	-	-	MG	2				

NVS, moderately magnetic.

SAMPLES

From	To	Sample	
239.47	241.47	G0	169956
241.47	241.47	G0	169957
241.47	243.72	G0	169958

From	To	Litho	Oxidation Limit
243.72	246.94	pG	

Kspar porphyritic granodiorite. Massive. Locally a sublte fabric develops over ~10cm. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is gradational and obscured by a zone of quartz and epidote veining.

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
243.72	243.72	G0	169959
243.72	244.72	G0	169960

From	To	Litho	Oxidation Limit
243.72	246.94	pG	

Kspar porphyritic granodiorite. Massive. Locally a sublte fabric develops over ~10cm. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is gradational and obscured by a zone of quartz and epidote veining.

STRUCTURES

From	To	Struct	CA	Strain
243.72	246.93	NA		
Massive.				
246.93	246.94	CON		
Lower contact is gradational and obscured by a zone of quartz and epidote veining.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
243.72	246.94	VW	-	-	VW	-	VW	-	VW	-
Alteration is very weak bt-sil-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
243.72	246.94	0	-	-	MG	0.5				
NVS, weakly magnetic.										

SAMPLES

From	To	Sample	
244.72	245.94	*G0*	169961
245.94	246.94	*G0*	169962

From	To	Litho	Oxidation Limit
246.94	255.62	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 40TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide. Unit is also locally xcut by a narrow aplite dyke <3cm wide nearly parallel TCA. Alteration is weak to very weak bt-chl-epi. NVS, strongly magnetic. Lower contact is sharp at roughly 60TCA.

STRUCTURES

From	To	Struct	CA	Strain
246.94	255.61	FOL	40	VW
Very weakly foliated granodiorite with fabric oriented at very roughly 40TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
246.94	249.62	*G0*	169963

From	To	Litho	Oxidation Limit
246.94	255.62	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 40TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide. Unit is also locally xcut by a narrow aplite dyke <3cm wide nearly parallel TCA. Alteration is weak to very weak bt-chl-epi. NVS, strongly magnetic. Lower contact is sharp at roughly 60TCA.

STRUCTURES

From	To	Struct	CA	Strain
255.61	255.62	CON	60	
		Lower contact is sharp at roughly 60TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
246.94	255.62	VW	-	VW	-	-	VW	-	VW	-
		Alteration is weak to very weak bt-chl-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
246.94	255.62	0	-	-	MG	2				
		NVS, strongly magnetic.								

SAMPLES

From	To	Sample	
249.62	252.62	*G0*	169964
252.62	255.62	*G0*	169965

From	To	Litho	Oxidation Limit
255.62	261.79	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is gradational over ~2cm.

STRUCTURES

From	To	Struct	CA	Strain
255.62	261.78	NA		
		Massive.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
255.62	261.79	VW	-	-	VW	-	VW	-	VW	-
		Alteration is very weak bt-sil-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
255.62	261.79	0	-	-	MG	0.5				
		NVS, weakly magnetic.								

SAMPLES

From	To	Sample	
255.62	255.62	*G0*	169966
255.62	256.62	*G0*	169967
256.62	258.12	*G0*	169968
258.12	259.29	*G0*	169969
259.29	260.79	*G0*	169970

From	To	Litho	Oxidation Limit
255.62	261.79	pG	

(Continued from previous page)

STRUCTURES

From	To	Struct	CA	Strain

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%

SAMPLES

From	To	Sample	
		G0	

261.78 261.79 CON

Lower contact is gradational over ~2cm.

From	To	Litho	Oxidation Limit
261.79	272.08	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 40TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide. Unit is locally xcut by pegmatite and aplite dykes <10cm wide. Alteration is weak to very weak to weak bt-chl-epi. NVS, strongly magnetic. Lower contact is gradatiomal over ~1cm at roughly 70TCA.

STRUCTURES

From	To	Struct	CA	Strain
261.79	272.07	FOL	40	VW

Very weakly foliated granodiorite with fabric oriented at very roughly 40TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
261.79	272.08	VW	-	VW	-	-	VW	-	VW	-

Alteration is weak to very weak to weak bt-chl-epi.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
261.79	272.08	0	-	-	MG	3				

NVS, strongly magnetic.

SAMPLES

From	To	Sample	
261.79	263.08	*G0*	169972
263.08	266.08	*G0*	169973
266.08	266.08	*G0*	169974
266.08	269.08	*G0*	169975
269.08	272.08	*G0*	169976

From	To	Litho	Oxidation Limit
261.79	272.08	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

272.07 272.08 CON 70

Lower contact is gradatiomal over ~1cm at rouhgly 70TCA.

From	To	Litho	Oxidation Limit
272.08	273.47	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is sharp intrusive oriented at roughly 75TCA.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample
																											272.08	272.08	***G0*** 169977
272.08	273.46	NA																											
Massive.																													
					272.08	273.47	VW	-	VW	-	-	VW	-	VW	-	272.08	273.47	0	-	-	MG	0.5					272.08	273.47	***G0*** 169978
					Alteration is very weak bt-sil-epi.											*NVS, weakly magnetic.*													
273.46	273.47	CON	75																										
Lower contact is sharp intrusive oriented at roughly 75TCA.																													

From	To	Litho	Oxidation Limit
273.47	274.30	Ap	

Aplite dyke. Massive. Alteration is restricted to narrow hematite halos around fractures. NVS, non-magnetic. Lower contact is across a fracture at roughly 90TCA.

STRUCTURES					ALTERATION										MINERALIZATION												SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

From	To	Litho	Oxidation Limit
273.47	274.30	Ap	

Aplite dyke. Massive. Alteration is restricted to narrow hematite halos around fractures. NVS, non-magnetic. Lower contact is across a fracture at roughly 90TCA.

STRUCTURES

From	To	Struct	CA	Strain
273.47	274.29	NA		
		Massive.		
274.29	274.30	CON	90	
		Lower contact is across a fracture at roughly 90TCA.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
273.47	274.30	VW	-	-	-	-	-	-	-	-
		Alteration is restricted to narrow hematite halos around fractures.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
273.47	274.30	0	-	-						
		NVS, non-magnetic.								

SAMPLES

From	To	Sample
273.47	274.30	G0 169979

From	To	Litho	Oxidation Limit
274.30	277.64	pG	

Kspar porphyritic granodiorite. Massive. Alteration is very weak bt-sil-epi. NVS, weakly magnetic. Lower contact is gradational over ~2cm.

STRUCTURES

From	To	Struct	CA	Strain
274.30	277.63	NA		
		Massive.		
277.63	277.64	CON		
		Lower contact is gradational over ~2cm.		

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
274.30	277.64	VW	-	VW	VW	-	VW	-	VW	-
		Alteration is very weak bt-sil-epi.								

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
274.30	277.64	0	-	-	MG	0.75				
		NVS, weakly magnetic.								

SAMPLES

From	To	Sample
274.30	275.14	G0 169980
275.14	276.64	G0 169981
276.64	277.64	G0 169982

From	To	Litho	Oxidation Limit
277.64	299.50	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide. Fault zone from 298.30 to 299.50m (High fracture abundance with gouge and rubble, local clay). Unit is locally xcut by pegmatite and aplite dykes <10cm wide. Alteration is weak to moderate bt-sil-chl-epi. NVS, strongly magnetic. Lower contact is fault contact.

STRUCTURES

From	To	Struct	CA	Strain
277.64	298.30	FOL	45	VW
Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide.				
298.30	299.49	FLT		
Fault zone. High fracture abundance with gouge and rubble, local clay.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
277.64	299.50	M	-	W	M	-	W	-	M	-
Alteration is weak to moderate bt-sil-chl-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
277.64	299.50	0	-	-	MG	4				
NVS, strongly magnetic.										

SAMPLES

From	To	Sample	
277.64	278.50	*G0*	169983
278.50	278.50	*G0*	169984
278.50	281.50	*G0*	169985
281.50	284.50	*G0*	169986
284.50	287.50	*G0*	169987
287.50	287.50	*G0*	169988
287.50	290.50	*G0*	169989
290.50	293.50	*G0*	169990
293.50	293.50	*G0*	169991
293.50	296.50	*G0*	169992
296.50	299.50	*G0*	169993

From	To	Litho	Oxidation Limit
277.64	299.50	fG	

(Continued from previous page)

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

299.49 299.50 CON

Fault contact.

From	To	Litho	Oxidation Limit
299.50	302.25	pG	

Kspar porphyritic granodiorite. Massive. Fault zone from 299.50 to 299.85m (High fracture abundance, gouge, friable rock, and local clay). Unit is locally xcut by pegmatite dykes <20cm wide. Alteration is moderate chl with weak bt-sil-epi. NVS, weakly magnetic. Lower contact is sharp, oriented at roughly 35TCA.

STRUCTURES					ALTERATION										MINERALIZATION											SAMPLES		
From	To	Struct	CA	Strain	From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI	From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%	From	To	Sample

299.50 299.85 FLT

Fault zone. High fracture abundance, gouge, friable rock, and local clay.

299.50 300.88 *G0* 169994

299.50 302.25 M - M W - W - W - 299.50 302.25 0 - - MG 0.5

Alteration is moderate chl with weak bt-sil-epi. *NVS, weakly magnetic.*

299.85 302.24 NA

Massive.

300.88 302.25 *G0* 169995

302.24 302.25 CON 35

Lower contact is sharp, oriented at roughly 35TCA.

From	To	Litho	Oxidation Limit
302.25	302.83	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA. Alteration is moderate to strong bt-sil-chl-epi. NVS, strongly magnetic. Lower contact is sharp and oriented at roughly 50TCA.

STRUCTURES

From	To	Struct	CA	Strain
302.25	302.82	FOL	45	VW

Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA.

From	To	Struct	CA	Strain
302.82	302.83	CON	50	

Lower contact is sharp and oriented at roughly 50TCA.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
302.25	302.83	S	-	S	M	-	W	-	S	-

Alteration is moderate to strong bt-sil-chl-epi.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
302.25	302.83	0	-	-	MG	3				

NVS, strongly magnetic.

SAMPLES

From	To	Sample	
302.25	302.83	*G0*	169996

From	To	Litho	Oxidation Limit
302.83	304.61	pG	

Kspar porphyritic granodiorite. Massive. Alteration is moderate ch-bt-sil-epi. NVS, moderately magnetic. Lower contact is sharp, oriented at roughly 80TCA.

STRUCTURES

From	To	Struct	CA	Strain
302.83	304.60	NA		

Massive.

From	To	Struct	CA	Strain
304.60	304.61	CON	80	

Lower contact is sharp, oriented at roughly 80TCA.

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
302.83	304.61	M	-	M	M	-	W	-	M	-

Alteration is moderate ch-bt-sil-epi.

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
302.83	304.61	0	-	-	MG	1.5				

NVS, moderately magnetic.

SAMPLES

From	To	Sample	
302.83	303.72	*G0*	169997
303.72	304.61	*G0*	169998

From	To	Litho	Oxidation Limit
304.61	321.51	fG	

Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA. Foliation locally gives way to or is intruded by pG/eg units <30cm wide. Intermitent fault zone from 304.95 to 314.95m (local zones of high fracture abundance, local clay and rubble, sometimes annealed or partially annealed, abundant chlorite). Alteration is moderate to strong chl-sil with weaker bt-epi. NVS, strongly magnetic. END OF HOLE.

STRUCTURES

From	To	Struct	CA	Strain
304.61	314.95	FLT		
Fault zone. Local zones of high fracture abundance, local clay and rubble, sometimes annealed or partially annealed, abundant chlorite.				
314.95	321.51	FOL	45	VW
Very weakly foliated granodiorite with fabric oriented at very roughly 45TCA.				

ALTERATION

From	To	INT	SR	CL	SIL	CC	EP	AB	K	LI
304.61	321.51	S	-	S	S	-	W	-	M	-
Alteration is moderate to strong chl-sil with weaker bt-epi.										

MINERALIZATION

From	To	CPY%	Style	VG	Min	Min%	Min2	M2%	Min3	M3%
304.61	321.51	0	-	-	MG	3				
NVS, strongly magnetic.										

SAMPLES

From	To	Sample	
304.61	306.51	*G0*	169999
306.51	306.51	*G0*	170000
306.51	309.51	*G0*	170001
309.51	312.51	*G0*	170002
312.51	312.51	*G0*	170003
312.51	315.51	*G0*	170004
315.51	318.51	*G0*	170005
318.51	321.51	*G0*	170006
321.51	321.51	*G0*	170007

APPENDIX B

CERTIFICATES OF ANALYSIS

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **MINTO EXPLORATION LTD.**
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

Finalized Date: 7-SEP-2009
Account: MINTEX

CERTIFICATE VA09093614

Project: 2009-169

P.O. No.: 105005

This report is for 56 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-AUG-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

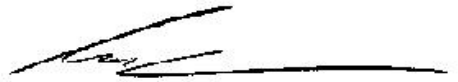
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **MINTO EXPLORATION LTD.**
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

Finalized Date: 7-SEP-2009
Account: MINTEX

Project: 2009-169

CERTIFICATE OF ANALYSIS VA09093614

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E167936		3.26	<0.005	<0.2	25
E167937		2.40	<0.005	<0.2	14
E167938		6.86	<0.005	<0.2	10
E167939		6.40	<0.005	<0.2	9
E167940		<0.02	<0.005	<0.2	11
E167941		6.32	<0.005	<0.2	8
E167942		6.50	<0.005	<0.2	7
E167943		6.48	<0.005	0.2	5
E167944		6.38	<0.005	<0.2	6
E167945		<0.02	<0.005	<0.2	6
E167946		5.98	<0.005	<0.2	6
E167947		6.72	<0.005	<0.2	5
E167948		6.58	<0.005	<0.2	4
E167949		1.94	<0.005	<0.2	4
E167950		0.62	<0.005	<0.2	4
E167951		1.26	<0.005	<0.2	4
E167952		1.68	<0.005	<0.2	4
E167953		1.98	<0.005	<0.2	2
E167954		2.66	<0.005	<0.2	7
E167955		3.18	<0.005	<0.2	3
E167956		0.18	0.286	3.1	3290
E167957		2.04	<0.005	<0.2	7
E167958		6.16	<0.005	<0.2	3
E167959		5.84	<0.005	<0.2	4
E167960		2.38	<0.005	<0.2	1
E167961		<0.02	<0.005	<0.2	1
E167962		0.78	<0.005	<0.2	1
E167963		2.04	<0.005	<0.2	1
E167964		3.50	<0.005	<0.2	1
E167965		3.36	<0.005	<0.2	1
E167966		2.18	<0.005	0.2	1
E167967		2.14	<0.005	<0.2	1
E167968		<0.02	<0.005	<0.2	1
E167969		2.12	<0.005	<0.2	3
E167970		2.20	<0.005	<0.2	3
E167971		6.30	0.007	0.2	631
E167972		0.18	0.293	2.9	3300
E167973		5.78	<0.005	<0.2	21
E167974		2.28	<0.005	<0.2	4
E167975		1.48	<0.005	<0.2	2

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VANCOUVER BC V6C 2W2

Finalized Date: 7-SEP-2009
Account: MINTEX

Project: 2009-169

CERTIFICATE OF ANALYSIS VA09093614

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E167976		2.74	<0.005	<0.2	4
E167977		3.74	<0.005	<0.2	2
E167978		<0.02	<0.005	<0.2	2
E167979		3.92	<0.005	<0.2	1
E167980		4.62	<0.005	<0.2	<1
E167981		1.16	<0.005	<0.2	<1
E167982		1.98	<0.005	<0.2	1
E167983		<0.02	<0.005	<0.2	<1
E167984		2.26	<0.005	<0.2	1
E167985		1.98	<0.005	<0.2	4
E167986		2.28	<0.005	<0.2	1
E167987		2.32	<0.005	<0.2	1
E167988		1.42	<0.005	<0.2	<1
E167989		6.32	<0.005	<0.2	1
E167990		7.28	<0.005	<0.2	1
E167991		0.18	0.283	3.0	3180

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Finalized Date: 7-SEP-2009
Account: MINTEX

CERTIFICATE VA09093615

Project: 2009-170

P.O. No.: 105005

This report is for 54 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 27-AUG-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 7-SEP-2009
Account: MINTEX

Project: 2009-170

CERTIFICATE OF ANALYSIS VA09093615

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E167992		2.18	<0.005	<0.2	23
E167993		3.22	<0.005	<0.2	1
E167994		2.98	<0.005	<0.2	5
E167995		2.02	<0.005	<0.2	4
E167996		4.40	<0.005	<0.2	94
E167997		4.86	<0.005	<0.2	2
E167998		<0.02	<0.005	<0.2	2
E167999		2.54	<0.005	<0.2	2
E168000		2.52	<0.005	<0.2	3
E168001		6.64	<0.005	<0.2	3
E168002		6.48	<0.005	<0.2	1
E168003		6.62	<0.005	<0.2	2
E168004		0.94	<0.005	<0.2	1
E168005		3.50	<0.005	<0.2	2
E168006		1.64	<0.005	<0.2	2
E168007		6.80	<0.005	<0.2	2
E168008		2.10	<0.005	<0.2	2
E168009		1.76	<0.005	<0.2	1
E168010		2.28	<0.005	<0.2	1
E168011		2.26	<0.005	<0.2	1
E168012		<0.02	<0.005	<0.2	1
E168013		2.22	<0.005	<0.2	1
E168014		3.24	<0.005	<0.2	1
E168015		3.10	<0.005	<0.2	1
E168016		0.18	0.310	3.1	3360
E168017		2.10	<0.005	<0.2	15
E168018		6.70	<0.005	<0.2	2
E168019		6.34	<0.005	<0.2	2
E168020		<0.02	<0.005	<0.2	2
E168021		7.00	<0.005	<0.2	2
E168022		6.96	<0.005	<0.2	52
E168023		6.74	<0.005	<0.2	3
E168024		6.58	<0.005	<0.2	1
E168025		6.58	<0.005	<0.2	7
E168026		<0.02	<0.005	<0.2	13
E168027		2.52	<0.005	<0.2	15
E168028		0.82	<0.005	<0.2	2
E168029		2.58	<0.005	<0.2	2
E168030		2.18	<0.005	<0.2	3
E168031		0.74	<0.005	<0.2	1

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Finalized Date: 7-SEP-2009
Account: MINTEX

Project: 2009-170

CERTIFICATE OF ANALYSIS VA09093615

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168032		1.32	<0.005	<0.2	2
E168033		3.70	<0.005	<0.2	1
E168034		0.18	0.287	3.0	3210
E168035		1.56	<0.005	<0.2	8
E168036		1.42	<0.005	<0.2	1
E168037		1.26	<0.005	<0.2	2
E168038		2.02	<0.005	<0.2	19
E168039		3.04	<0.005	<0.2	3
E168040		2.42	<0.005	<0.2	6
E168041		2.32	<0.005	<0.2	2
E168042		4.78	<0.005	<0.2	5
E168043		<0.02	<0.005	<0.2	4
E168044		0.86	<0.005	<0.2	3
E168045		2.06	<0.005	<0.2	7

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Finalized Date: 18-SEP-2009
Account: MINTEX

CERTIFICATE VA09095451

Project: 2009-173

P.O. No.: 105005

This report is for 7 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN STEPHEN QUIN	B. MERCER JANICE SONG	TARAS NAHNYBIDA BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
LOG-21d	Sample logging - ClientBarCode Dup

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

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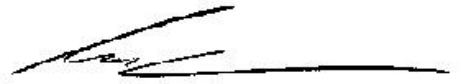
Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Project: 2009-173

CERTIFICATE OF ANALYSIS VA09095451

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168133		2.28	<0.005	<0.2	<1
E168134		3.42	<0.005	<0.2	<1
E168135		3.46	0.011	<0.2	<1
E168136		2.00	<0.005	<0.2	1
E168137		2.84	<0.005	<0.2	<1
E168138		<0.02	<0.005	<0.2	<1
E168139		1.42	<0.005	<0.2	<1

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Finalized Date: 18-SEP-2009
Account: MINTEX

CERTIFICATE VA09095452

Project: 2009-171

P.O. No.: 105005

This report is for 45 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN STEPHEN QUIN	B. MERCER JANICE SONG	TARAS NAHNYBIDA BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

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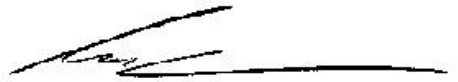
Signature: 
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Finalized Date: 18-SEP-2009
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Project: 2009-171

CERTIFICATE OF ANALYSIS VA09095452

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168046		3.48	<0.005	0.2	3
E168047		4.80	0.015	0.4	453
E168048		<0.02	0.009	0.2	437
E168049		3.32	<0.005	<0.2	7
E168050		2.16	0.005	<0.2	5
E168051		0.18	0.304	2.9	3360
E168052		2.02	<0.005	<0.2	2
E168053		2.94	<0.005	0.2	2
E168054		3.06	<0.005	<0.2	1
E168055		1.70	0.044	0.2	5
E168056		3.50	0.005	<0.2	1
E168057		<0.02	<0.005	<0.2	1
E168058		0.72	<0.005	<0.2	1
E168059		3.30	<0.005	<0.2	1
E168060		2.40	<0.005	<0.2	1
E168061		3.44	<0.005	<0.2	2
E168062		7.28	<0.005	<0.2	2
E168063		3.12	<0.005	<0.2	2
E168064		4.60	<0.005	<0.2	1
E168065		<0.02	<0.005	<0.2	1
E168066		7.02	<0.005	<0.2	1
E168067		6.84	<0.005	<0.2	1
E168068		6.76	0.012	<0.2	<1
E168069		7.30	<0.005	<0.2	<1
E168070		2.16	<0.005	<0.2	<1
E168071		3.48	<0.005	<0.2	<1
E168072		2.24	<0.005	<0.2	<1
E168073		1.12	0.010	<0.2	<1
E168074		0.18	0.267	2.8	3330
E168075		2.26	0.005	<0.2	5
E168076		3.46	<0.005	<0.2	1
E168077		3.50	<0.005	<0.2	1
E168078		2.18	<0.005	0.3	2
E168079		2.08	<0.005	<0.2	1
E168080		<0.02	<0.005	<0.2	1
E168081		1.98	<0.005	<0.2	2
E168082		3.28	0.039	0.2	1
E168083		3.12	<0.005	0.3	1
E168084		2.66	<0.005	<0.2	2
E168085		5.98	0.006	<0.2	318

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Finalized Date: 18-SEP-2009
Account: MINTEX

Project: 2009-171

CERTIFICATE OF ANALYSIS VA09095452

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168086		6.58	<0.005	<0.2	198
E168087		7.20	0.018	0.3	642
E168088		<0.02	0.016	0.5	637
E168089		0.68	<0.005	<0.2	3
E168090		3.70	<0.005	<0.2	45

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Finalized Date: 15-SEP-2009
Account: MINTEX

CERTIFICATE VA09095453

Project: 2009-172

P.O. No.: 105005

This report is for 42 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

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Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 15-SEP-2009
Account: MINTEX

Project: 2009-172

CERTIFICATE OF ANALYSIS VA09095453

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168091		1.94	<0.005	<0.2	2
E168092		5.74	0.006	<0.2	254
E168093		7.14	0.007	0.4	399
E168094		0.18	0.274	3.0	3290
E168095		6.76	0.007	0.3	394
E168096		6.74	0.026	0.7	1020
E168097		6.96	<0.005	0.4	78
E168098		<0.02	0.007	0.3	79
E168099		6.80	<0.005	<0.2	2
E168100		6.28	<0.005	<0.2	1
E168101		6.74	<0.005	<0.2	1
E168102		6.80	<0.005	<0.2	61
E168103		0.82	<0.005	<0.2	<1
E168104		6.26	<0.005	<0.2	11
E168105		6.86	<0.005	<0.2	1
E168106		3.14	<0.005	<0.2	<1
E168107		2.24	<0.005	<0.2	<1
E168108		3.72	<0.005	<0.2	<1
E168109		2.14	<0.005	<0.2	<1
E168110		1.76	<0.005	<0.2	<1
E168111		1.80	<0.005	<0.2	1
E168112		<0.02	<0.005	<0.2	1
E168113		1.38	<0.005	<0.2	<1
E168114		2.38	<0.005	<0.2	<1
E168115		3.50	<0.005	<0.2	<1
E168116		0.18	0.273	3.3	3340
E168117		2.18	<0.005	<0.2	<1
E168118		7.00	<0.005	<0.2	<1
E168119		<0.02	<0.005	<0.2	<1
E168120		7.16	<0.005	<0.2	1
E168121		6.42	<0.005	<0.2	<1
E168122		<0.02	<0.005	<0.2	<1
E168123		2.38	<0.005	<0.2	<1
E168124		2.26	<0.005	<0.2	<1
E168125		7.06	<0.005	<0.2	<1
E168126		6.78	<0.005	<0.2	<1
E168127		0.64	<0.005	<0.2	<1
E168128		6.46	<0.005	<0.2	4
E168129		2.38	<0.005	<0.2	2
E168130		5.86	<0.005	<0.2	1

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Finalized Date: 15-SEP-2009
Account: MINTEX

Project: 2009-172

CERTIFICATE OF ANALYSIS VA09095453

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E168131		0.18	0.324	2.8	3280
E168132		3.26	<0.005	<0.2	2

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Finalized Date: 9-OCT-2009
Account: MINTEX

CERTIFICATE VA09106143

Project: 2009-179

P.O. No.: 105005

This report is for 52 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 22-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
ME-OG46	Ore Grade Elements - AquaRegia	ICP-AES
Cu-OG46	Ore Grade Cu - Aqua Regia	VARIABLE

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 9-OCT-2009
Account: MINTEX

Project: 2009-179

CERTIFICATE OF ANALYSIS VA09106143

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1	Cu-OG46 Cu % 0.001
E170051		4.14	<0.005	0.2	243	
E170052		4.40	<0.005	<0.2	117	
E170053		4.76	0.008	<0.2	234	
E170054		2.98	<0.005	<0.2	305	
E170055		<0.02	<0.005	<0.2	325	
E170056		4.38	0.005	0.2	381	
E170057		6.06	<0.005	<0.2	37	
E170058		0.56	<0.005	<0.2	2	
E170059		5.92	0.017	0.2	308	
E170060		2.04	<0.005	<0.2	29	
E170061		6.88	<0.005	<0.2	291	
E170062		3.16	<0.005	<0.2	61	
E170063		2.26	<0.005	<0.2	121	
E170064		2.80	0.017	0.2	243	
E170065		<0.02	0.019	0.2	249	
E170066		3.86	<0.005	<0.2	103	
E170067		4.18	<0.005	<0.2	49	
E170068		0.18	0.313	3.2	3220	
E170069		4.64	<0.005	<0.2	151	
E170070		1.52	<0.005	0.2	5	
E170071		4.52	<0.005	0.2	213	
E170072		4.50	0.027	0.8	1260	
E170073		<0.02	0.022	0.7	1210	
E170074		4.68	<0.005	<0.2	113	
E170075		4.56	<0.005	<0.2	78	
E170076		0.96	<0.005	<0.2	6	
E170077		4.58	<0.005	<0.2	78	
E170078		4.70	0.009	0.3	415	
E170079		4.46	<0.005	0.3	532	
E170080		4.22	<0.005	0.2	357	
E170081		1.58	<0.005	<0.2	14	
E170082		4.44	<0.005	<0.2	66	
E170083		<0.02	<0.005	<0.2	70	
E170084		4.00	<0.005	0.3	550	
E170085		4.44	0.005	<0.2	21	
E170086		4.22	0.007	<0.2	11	
E170087		4.60	0.009	0.8	1240	
E170088		0.18	0.535	3.7	4830	
E170089		0.56	0.415	14.1	>10000	2.10
E170090		3.96	<0.005	<0.2	127	

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Finalized Date: 9-OCT-2009
Account: MINTEX

Project: 2009-179

CERTIFICATE OF ANALYSIS VA09106143

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1	Cu-OG46 Cu % 0.001
E170091		2.28	<0.005	<0.2	10	
E170092		3.58	<0.005	<0.2	99	
E170093		6.66	<0.005	<0.2	139	
E170094		6.92	<0.005	<0.2	99	
E170095		3.50	<0.005	0.2	7	
E170096		2.12	<0.005	<0.2	1	
E170097		3.60	<0.005	<0.2	2	
E170098		<0.02	<0.005	0.2	4	
E170099		0.76	<0.005	<0.2	<1	
E170100		4.74	<0.005	<0.2	5	
E170101		2.40	<0.005	<0.2	3	
E170102		3.00	<0.005	<0.2	1	

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Finalized Date: 19-SEP-2009
Account: MINTEX

CERTIFICATE VA09094866

Project: 2009-178

P.O. No.: 105005

This report is for 22 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN STEPHEN QUIN	B. MERCER JANICE SONG	TARAS NAHNYBIDA BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-22d	Sample login - Rcd w/o BarCode dup
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
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Signature: 

Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 19-SEP-2009
Account: MINTEX

Project: 2009-178

CERTIFICATE OF ANALYSIS VA09094866

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169986		6.88	<0.005	<0.2	83
E169987		6.84	0.012	<0.2	315
E169988		0.04	0.011	<0.2	374
E169989		7.02	<0.005	<0.2	59
E169990		7.04	<0.005	<0.2	21
E169991		0.18	0.291	2.7	3390
E169992		7.46	<0.005	<0.2	6
E169993		6.20	<0.005	<0.2	1
E169994		2.76	<0.005	<0.2	4
E169995		2.98	<0.005	<0.2	4
E169996		0.86	<0.005	<0.2	2
E169997		2.04	<0.005	<0.2	2
E169998		2.04	<0.005	<0.2	3
E169999		4.32	<0.005	<0.2	2
E170000		<0.02	<0.005	<0.2	2
E170001		5.82	<0.005	<0.2	<1
E170002		6.78	<0.005	<0.2	3
E170003		0.82	<0.005	<0.2	1
E170004		7.04	<0.005	<0.2	69
E170005		7.20	0.007	<0.2	459
E170006		6.20	<0.005	<0.2	320
E170007		<0.02	<0.005	<0.2	345

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Finalized Date: 19-SEP-2009
Account: MINTEX

CERTIFICATE VA09094867

Project: 2009-174

P.O. No.: 105005

This report is for 35 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-22d	Sample login - Rcd w/o BarCode dup
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
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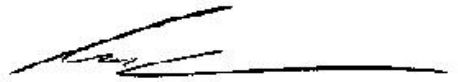
Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

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Finalized Date: 19-SEP-2009
Account: MINTEX

Project: 2009-174

CERTIFICATE OF ANALYSIS VA09094867

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169835		3.72	<0.005	<0.2	1
E169836		1.50	<0.005	0.4	2
E169837		3.36	<0.005	0.3	3
E169838		<0.02	<0.005	<0.2	2
E169839		4.16	<0.005	<0.2	1
E169840		0.70	<0.005	<0.2	<1
E169841		2.20	<0.005	<0.2	2
E169842		3.10	<0.005	<0.2	<1
E169843		3.14	<0.005	<0.2	1
E169844		2.26	<0.005	<0.2	1
E169845		5.42	<0.005	<0.2	1
E169846		<0.02	<0.005	0.2	1
E169847		3.00	<0.005	<0.2	1
E169848		3.06	<0.005	<0.2	1
E169849		5.82	<0.005	<0.2	3
E169850		0.18	0.280	3.2	3380
E169851		6.74	<0.005	<0.2	7
E169852		7.40	<0.005	<0.2	15
E169853		6.60	<0.005	<0.2	71
E169854		6.94	<0.005	<0.2	25
E169855		7.14	<0.005	<0.2	177
E169856		6.44	<0.005	<0.2	65
E169857		6.46	<0.005	<0.2	80
E169858		7.28	<0.005	0.2	29
E169859		<0.02	<0.005	0.2	34
E169860		6.88	<0.005	<0.2	7
E169861		7.18	<0.005	0.2	<1
E169862		7.30	<0.005	<0.2	3
E169863		0.58	<0.005	<0.2	<1
E169864		7.18	<0.005	0.2	3
E169865		6.38	0.005	0.2	172
E169866		6.84	0.029	<0.2	161
E169867		6.72	0.019	0.6	427
E169868		<0.02	0.025	0.4	425
E169869		7.04	<0.005	<0.2	109

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Finalized Date: 18-SEP-2009
Account: MINTEX

CERTIFICATE VA09094868

Project: 2009-177

P.O. No.: 105005

This report is for 43 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-22d	Sample login - Rcd w/o BarCode dup
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
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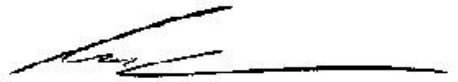
Signature: 
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Finalized Date: 18-SEP-2009
Account: MINTEX

Project: 2009-177

CERTIFICATE OF ANALYSIS VA09094868

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169943		6.74	<0.005	0.3	37
E169944		6.68	<0.005	0.3	16
E169945		6.94	<0.005	0.3	10
E169946		6.72	<0.005	0.2	8
E169147		<0.02	<0.005	0.4	15
E169948		2.06	<0.005	0.2	6
E169949		0.18	0.303	3.3	3350
E169950		2.26	<0.005	<0.2	7
E169951		3.50	<0.005	0.2	31
E169952		2.92	<0.005	<0.2	4
E169953		2.40	<0.005	0.2	6
E169954		1.94	<0.005	0.2	2
E169955		1.86	<0.005	<0.2	3
E169956		4.66	<0.005	<0.2	4
E169957		<0.02	<0.005	<0.2	5
E169958		6.06	<0.005	<0.2	11
E169959		0.68	<0.005	0.2	2
E169960		2.18	<0.005	0.2	1
E169961		2.72	<0.005	<0.2	2
E169962		2.36	<0.005	0.2	2
E169963		5.86	<0.005	0.3	3
E169964		7.16	<0.005	<0.2	2
E169965		6.64	<0.005	0.2	3
E169966		<0.02	<0.005	<0.2	1
E169967		2.08	<0.005	<0.2	1
E169968		3.20	<0.005	0.2	2
E169969		2.76	<0.005	<0.2	1
E169970		3.56	<0.005	<0.2	2
E169971		2.26	<0.005	<0.2	2
E169972		3.04	<0.005	<0.2	1
E169973		6.42	0.005	0.2	86
E169974		0.20	0.261	3.0	3160
E169975		6.96	<0.005	<0.2	6
E169976		6.98	<0.005	0.3	4
E169977		<0.02	<0.005	0.2	3
E169978		3.10	<0.005	<0.2	1
E169979		1.80	<0.005	<0.2	<1
E169980		1.88	<0.005	<0.2	1
E169981		3.06	<0.005	<0.2	1
E169982		2.38	<0.005	0.2	2

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Finalized Date: 18-SEP-2009
Account: MINTEX

Project: 2009-177

CERTIFICATE OF ANALYSIS VA09094868

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169983		2.18	<0.005	<0.2	1
E169984		0.66	<0.005	0.3	1
E169985		6.86	<0.005	<0.2	2

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Finalized Date: 19-SEP-2009
Account: MINTEX

CERTIFICATE VA09094869

Project: 2009-176

P.O. No.: 105005

This report is for 37 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN STEPHEN QUIN	B. MERCER JANICE SONG	TARAS NAHNYBIDA BRIAN WILLET

SAMPLE PREPARATION

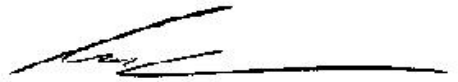
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-22d	Sample login - Rcd w/o BarCode dup
LOG-22	Sample login - Rcd w/o BarCode
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

To: **MINTO EXPLORATION LTD.**
ATTN: JANICE SONG
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature: 
Colin Ramshaw, Vancouver Laboratory Manager

ALS Chemex
EXCELLENCE IN ANALYTICAL CHEMISTRY
ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

To: **MINTO EXPLORATION LTD.**
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

Finalized Date: 19-SEP-2009
Account: MINTEX

Project: 2009-176

CERTIFICATE OF ANALYSIS VA09094869

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169906		7.40	<0.005	<0.2	1
E169907		<0.02	<0.005	<0.2	2
E169908		7.58	<0.005	<0.2	2
E169909		0.18	0.285	3.1	3330
E169910		2.98	<0.005	<0.2	2
E169911		3.90	<0.005	<0.2	2
E169912		2.36	<0.005	<0.2	2
E169913		6.76	<0.005	0.7	94
E169914		6.32	<0.005	0.2	1
E169915		7.30	<0.005	<0.2	243
E169916		7.10	<0.005	<0.2	1
E169917		<0.02	<0.005	<0.2	<1
E169918		7.00	<0.005	<0.2	<1
E169919		6.82	<0.005	<0.2	2
E169920		7.16	<0.005	<0.2	2
E169921		0.82	<0.005	<0.2	<1
E169922		2.36	<0.005	<0.2	<1
E169923		4.20	<0.005	<0.2	<1
E169924		2.24	<0.005	<0.2	<1
E169925		1.72	<0.005	0.2	<1
E169926		1.74	<0.005	<0.2	<1
E169927		2.66	<0.005	<0.2	<1
E169928		3.10	<0.005	<0.2	<1
E169929		2.34	<0.005	<0.2	<1
E169930		4.76	<0.005	<0.2	<1
E169931		<0.02	<0.005	<0.2	<1
E169932		3.36	<0.005	0.2	<1
E169933		0.18	0.283	3.1	3320
E169934		1.66	<0.005	<0.2	1
E169935		5.92	<0.005	<0.2	<1
E169936		7.18	<0.005	<0.2	<1
E169937		7.06	<0.005	<0.2	2
E169938		<0.02	<0.005	<0.2	3
E169939		6.68	<0.005	0.2	1
E169940		6.96	<0.005	<0.2	4
E169941		6.74	<0.005	<0.2	2
E169942		0.74	<0.005	<0.2	<1

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To: **MINTO EXPLORATION LTD.**
SUITE 900 - 999 WEST HASTINGS STREET
VANCOUVER BC V6C 2W2

Finalized Date: 15-SEP-2009
Account: MINTEX

CERTIFICATE VA09095450

Project: 2009-175

P.O. No.: 105005

This report is for 36 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 1-SEP-2009.

The following have access to data associated with this certificate:

VIVIENNE MCLENNAN	B. MERCER	TARAS NAHNYBIDA
STEPHEN QUIN	JANICE SONG	BRIAN WILLET

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
PUL-31d	Pulverize Split - duplicate
SPL-34	Pulp Splitting Charge
LOG-21d	Sample logging - ClientBarCode Dup
LOG-23	Pulp Login - Rcvd with Barcode
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES

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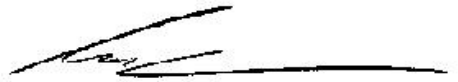
Signature: 

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Finalized Date: 15-SEP-2009
Account: MINTEX

Project: 2009-175

CERTIFICATE OF ANALYSIS VA09095450

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au ppm 0.005	ME-ICP41 Ag ppm 0.2	ME-ICP41 Cu ppm 1
E169870		6.96	<0.005	<0.2	40
E169871		7.04	0.007	0.2	491
E169872		6.80	<0.005	<0.2	85
E169873		0.18	0.274	3.1	3380
E169874		6.72	<0.005	<0.2	183
E169875		6.60	0.011	0.2	802
E169876		7.54	0.006	<0.2	373
E169877		<0.02	0.005	<0.2	369
E169878		2.30	<0.005	<0.2	7
E169879		1.72	<0.005	<0.2	4
E169880		6.30	<0.005	<0.2	3
E169881		0.88	<0.005	<0.2	<1
E169882		6.84	<0.005	<0.2	1
E169883		6.84	<0.005	<0.2	1
E169884		6.90	<0.005	<0.2	1
E169885		6.80	<0.005	<0.2	2
E169886		<0.02	<0.005	<0.2	10
E169887		2.24	<0.005	<0.2	1
E169888		2.52	<0.005	<0.2	1
E169889		2.20	<0.005	<0.2	1
E169890		0.92	<0.005	<0.2	<1
E169891		7.10	<0.005	<0.2	1
E169892		0.18	0.252	3.1	3250
E169893		6.92	<0.005	<0.2	10
E169894		6.92	<0.005	<0.2	2
E169895		7.06	<0.005	<0.2	1
E169896		6.70	<0.005	<0.2	1
E169897		6.98	<0.005	<0.2	1
E169898		<0.02	<0.005	<0.2	2
E169899		6.88	<0.005	<0.2	1
E169900		0.62	<0.005	<0.2	<1
E169901		2.82	<0.005	<0.2	1
E169902		4.64	<0.005	<0.2	1
E169903		1.26	<0.005	<0.2	<1
E169904		6.92	<0.005	<0.2	2
E169905		7.16	<0.005	<0.2	3

APPENDIX C

PERSONNEL

Name	Company	Title	Dates on site	Mandays
Brian Willett	Minto Explorations Ltd	Senior Project Geologist	August 6-14, 2009	9
Taras Nahnybida	Capstone Mining Corp	Project Geologist	August 6-14, 2009	9
James Scott	Minto Explorations Ltd	Core logger	August 6-14, 2009	9
Stefan Anderson	Minto Explorations Ltd	Core logger	August 6-14, 2009	9
Sam Mulholland	Minto Explorations Ltd	Core cutter	August 6-14, 2009	9
Troy Pope	Minto Explorations Ltd	Core cutter	August 11-14, 2009	4
Jernej Velikonja	Apex Geoscience Ltd.	Geotechnician	August 6-14, 2009	9
Cory Gunson	Apex Geoscience Ltd	Geotechnician	August 6-14, 2009	9
Rick Erickson	Driftwood Diamond Drilling Ltd.	Drill foreman	August 6-14, 2009	9
Cory Hertz	Driftwood Diamond Drilling Ltd.	Driller	August 6-14, 2009	9
Clayton Johnny	Driftwood Diamond Drilling Ltd.	Helper	August 6-14, 2009	9
Brian Murray	Driftwood Diamond Drilling Ltd.	Driller	August 6-14, 2009	9
Tristan Rosger	Driftwood Diamond Drilling Ltd.	Helper	August 6-14, 2009	9
			Total Mandays	112

APPENDIX D

STATEMENT OF EXPENDITURES

Statement of Expenditures

Direct drilling costs	$56,584.00
Wages (Exploration personnel)	$21,060.00
Analytical costs	$10,620.97
Camp costs (112 mandays at $38.30/manday)	$4,289.60
Report Preparation (2 days at $400.00/day)	$800.00
Total Expenditures	**$93,354.57**

APPENDIX E

STATEMENT OF QUALIFICATIONS

Statement of Qualifications

I, Brian J. Willett, of the town of Kippens, Province of Newfoundland, do hereby certify that:

(1) I am Senior Project Geologist employed by Minto Explorations Ltd., a subsidiary of Capstone Mining Corporation, of P.O. Box 33174, Whitehorse, Yukon.

(2) I reside at 15 Fir Avenue, Kippens, NL, A2N 0A6.

(3) I am a graduate of Memorial University of Newfoundland with a Bachelor of Science degree in Earth Sciences (1985).

(4) I have been practicing my profession since 1985.

(5) Tthis report is based in part on property work I personally completed and/or directly supervised between August 6, 2009 and August 14, 2009.

Signed in the town of Kippens, this 7th day of February, 2010.

Brian J. Willett

Brian J. Willett