

**QB**

Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
		419320	6698500	1036	195.07

**ZONE:** \_\_\_\_\_

**SECTION:** \_\_\_\_\_

**HOLE: QB-12-03**

**CLAIM: YB83143**

Contractor: Beaudoin Diamond Drilling

Drill: \_\_\_\_\_

Core size: HQ

Casing depth: 0.95 (m) in / **out**

Drilling dates: August 26 - 28, 2012

Geology logged by: C. Chung

SURVEY							
Depth (m)	Azimuth	Dip	Method	Depth (m)	Azimuth	Dip	Method
0	340	-45	compass				

**TARGET:** \_\_\_\_\_

SUMMARY				
From (m)	To (m)	Interval	Unit	Comments
0.00	0.95	0.95	CAS	
0.95	6.90	5.95	OVb	
6.90	11.45	4.55	FEL	
11.45	27.90	16.45	SCH	
27.90	28.82	0.92	FLR	
28.82	39.18	10.36	SCH	
39.18	42.70	3.52	FEL	
42.70	82.87	40.17	SCH	
82.87	87.43	4.56		mixed interval of limestone, felsic dyke and schist
87.43	107.78	20.35	SCH	
107.78	108.27	0.49	VEN	
108.27	129.28	21.01	SCH	
129.28	150.8	21.52	SCH	
150.8	155.15	4.35	FEL	
155.15	159.97	4.82	SCH	
159.97	176.03	16.06	SCH	
176.03	186.22	10.19	SCH	
186.22	195.07	8.85	SCH	

<b>SAMPLES</b>	
Numbers:	L840160 - L840200, L840251 - L840300 M6500540 - M6500543
Total:	78
Batch:	6 (28 only), 7, 8 (31 only)
Date Sent:	
Certificate:	WH12219229, WH2227174, WH12227175

[illegible]

## Geology Log

**Hole: QB-12-03**

**Logger Name:** C. Chung

**Date: September 19 2012**

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
0.00	0.95	0.95	0.00	0.95	0.95		CAS	--	--	--	--	--	--			--	--				Casing; No recovery.
0.95	6.90	5.95	0.95	6.90	5.95		OVB			BN		4I				--	--				Overburden; Mixed interval of granitoid cobbles and brown and dark grey clay and granular gouge, clay and sand. Fragments show high biotite content.
6.90	11.45	4.55					FEL	MG	LT	GY	PO		2I	SER	2I						Felsic Dyke; Moderately silicified and sericite altered quartz-feldspar porphyritic felsic dyke. Weakly foliated matrix at ~50° to core axis.
									LT	GN							0.50				Low veining density, generally narrow white calcite veinlet and sulphide veinlets (<0.5cm), oriented at ~35° to core axis.
																					Trace-minor sulphides present in narrow veinlets.
			6.90	9.42	2.52																Competent core rock with minor fracturing, oriented at ~45° to core axis.
																					-Similar to general description.
			9.42	11.45	2.03				MD	GY	PO		3I	SER	1I					X	-Similar to general description. Slight decrease in sericite but increased silicification of matrix. Increased muscovite at 11.21m to lower contact.
11.45	27.90	16.45					SCH	FG	MD	GY	FO		1I								Muscovite-Chlorite-Biotite Schist; Very fine-fine grained moderately foliated muscovite-chlorite-biotite schist. Foliation at ~45° to core axis. "Banding" noted, often distinguishing muscovite and biotite content. Chlorite noted.
									DK	BN							0.30				Low veining density. Rare calcite veinlets (<0.7cm) at ~40° to core axis with trace sulphides.
			11.45	14.85	3.40																Trace-minor sulphides noted on fracture surfaces (occurring as narrow veinlets?)
			14.85	14.98	0.13		FEL		LT	GN	PO		3I								Fairly competent core rock. Minor fracturing along foliation.
			14.98	15.43	0.45																-Similar to general description.
			15.43	15.79	0.36		VEN		LT	GY			5I								-Porphyritic quartz-feldspar felsic dyke. Contact at ~50° to core axis.
			15.79	17.93	2.14				LT	GY			2I				0.70				-Similar to general description.
			17.93	19.11	1.18				DK	BN			3I	CHL	2I					X	Quartz vein, oriented at ~45° to core axis. No significant sulphides.
			19.11	20.67	1.56				MD	GY											-Similar to general description. Slight increase in silicification and weakly calcareous matrix.
			20.67	21.42	0.75		FEL	MG	LT	GY			3I				0.50				Sulphide veinlets noted in this interval at ~65° to core axis.
			21.42	24.04	2.62				LT	GY											-Moderate-strongly silicified interval. Matrix is dark brown-grey with black and white specks (<0.3cm, biotite and calcite?). Narrow veinlets (<0.2cm) with bleached envelopes at ~35° to core axis.
			24.04	24.72	0.68		FEL	MG	LT	GY	PO		3I	SER	2I						-Similar to general description.
			24.72	26.07	1.35			FG	MD	GY			2I				0.30				-Felsic dyke. Contacts at ~25° and ~60° to core axis. Weakly foliated lower contact zone.
			26.07	27.90	1.83		FEL		MD	GN			2I	SER	2I		0.30	Gn	0.10		-Similar to general description. Slight increase in silicification. Sulphide veinlets present.
														CHL	2I			Li	0.10		Sericite altered quartz-feldspar porphyritic felsic dyke. Contacts at ~45° to core axis.
27.90	28.82	0.92	27.90	28.82	0.92		FLR		LT	GY	BX			CLY	4I	--	--				Patchy chlorite altered matrix. Sulphides present in trace-minor amounts. Trace galena(?) seen in a fracture veinlet (<0.2cm) at ~30° to core axis. Limonite on fracture surfaces.
																					Fault Zone(?); Interval of coarse granular gouge. Fragmented quartz vein noted. Weakly calcareous clay gouge matrix. Oriented at ~75° to core axis. No significant sulphides.

n = none, t = <1%, w = 1-3%, f = 3-5%, m = 5-7%, ms = 7-10%, s = 10-15%, l = 15-20%, (write % for >20%)

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
28.82	39.18	10.36					SCH	FG	MD	GY	FO		2I	CHL	2I						Muscovite-Chlorite-Biotite Schist; Similar to 11.45-27.90m. Silicified muscovite-chlorite-biotite schist. Foliation at ~45° to core axis. Patchy zones with white specks (<0.2cm, calcite).
																0.10					Low veining density, dominantly narrow calcite veinlets at low angles (<20°). Rare-trace sulphides noted, often on fracture surfaces. Competent core rock with minor fracturing at ~40° to core axis.
			28.82	30.18	1.36		FEL		LT	GY	PO			CHL	3I						-Felsic dyke at 29.71-29.92m at ~60° to core axis. Fine-medium grained chlorite altered schist as envelope.
			30.18	32.91	2.73				DK	BN			3I								-Similar to general description. Slight increase in silicification. Calcite speckled matrix.
			32.91	33.93	1.02				DK	GN											-Similar to general description.
			33.93	34.04	0.11		FEL		LT	GY	PO										-Felsic dyke at ~30° to core axis. Foliation at ~45° to core axis
			34.04	35.62	1.58				MD	GY											-Similar to general. Foliation at ~40° to core axis. Calcite speckles in matrix (<0.2cm).
			35.62	35.94	0.32		FEL	MG	LT	GY	PO		3I								-Felsic dyke at ~40° and ~20° to core axis.
			35.94	36.30	0.36				MD	GN											-Similar to general description. Foliation at ~45° to core axis.
			36.30	36.71	0.41		FEL	MG	LT	GY	PO		3I								-Felsic dyke at ~60° and ~50° to core axis.
			36.71	38.61	1.90				MD	GN											-Similar to general description. Foliation at ~60° to core axis. Moderate-high biotite content.
			38.61	38.77	0.16		FEL	MG	LT	GY	PO										-Felsic dyke at ~40° and ~75° to core axis.
			38.77	39.18	0.41				MD	GN			4I	CHL	3I						-Similar to general description. Increased silicification. Dark matrix with bleached envelopes along healed fractures.
39.18	42.70	3.52					FEL	MG	LT	GY	PO		2I	CHL	1I						Felsic Dyke; Weak-moderately silicified quartz-feldspar porphyritic felsic dyke with patchy zones of weakly chlorite alteration. Weak foliation at ~40° to core axis. Fragments of muscovite schist present.
										WH						0.20					Low veining density, often narrow green bands and discontinuous wisps and diffused grey quartz veinlets (<1cm).
																					Trace sulphides noted, commonly carried in quartz veinlets.
			39.18	39.37	0.19				LT	GN	PO			CHL	2I						Competent core rock, rare fracturing, generally at ~30° to core axis.
														SER	2I						-Contact zone - similar to general with green colour - increased chlorite and sericite in matrix.
			39.37	41.56	2.19																-Similar to general description.
			41.56	42.01	0.45		SCH		DK	GY	FO										-Interval of fine grained, banded muscovite-biotite schist. Contact at ~50° to core axis. Xenolith in dyke(?). Foliation at ~65° to core axis.
			42.01	42.70	0.69					WH											-Similar to general description with slightly bleached matrix.
42.70	82.87	40.17					SCH	FG	MD	BN	FO		2I	CHL	1I						Muscovite-Chlorite-Biotite Schist; Similar to 11.45-27.90m. Silicified muscovite-chlorite-biotite schist. Foliated matrix (at ~60° to core axis) with localized zones of calcite speckled (<0.2cm) textures.
									MD	GY											Low vein density, generally narrow calcite veinlets (<0.5cm) at ~45° to core axis.
																0.50	Po	0.10			Trace-minor sulphides, mostly noted on fracture surfaces. Appears to follow foliation planes ad discontinuous veinlets (<0.1cm).
																					Fairly competent core rock. Intervals with higher biotite content are more fissile. Fracture along foliation planes at ~50° to core axis.
			42.70	43.15	0.45			FG	LT	GY				CLY	3I						-Contact zone - similar to general with a slightly bleached matrix. Appears to be higher sericite content. Foliation at ~40° to core axis.
			43.15	44.19	1.04				MD	BN											-Similar to general description.
			44.19	46.14	1.95				MD	GY			3I	CHL	2I						-Similar to general description with increased silicification, nearly texturally destructive. Green colouring in matrix - increased chlorite(?).
			46.14	49.88	3.74				MD	BN											-Similar to general description with zones of grey calcite clots (<0.3cm).

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			49.88	51.62	1.74				MD	GN			3I	CHL	2I						-Similar to 44.19-46.14m. Medium green-grey micaceous schist. Increased chlorite/sericite and foliation at ~60° to core axis. Several fractures with fine clay/gouge on surfaces (at ~60° to core axis).
			51.62	52.32	0.70				DK	BN			3I								-Similar to general description - slight increase in silicification of dark brown matrix. Light coloured bands (<1cm) - bleached envelopes to healed fractures(?).
			52.32	52.56	0.24		VEN		WH				5I								-Quartz vein at ~40° to core axis. Strongly micaceous contact zones (~5cm wide). No significant sulphides.
			52.56	53.32	0.76				DK	GN				CHL	3I						-Dark green, chlorite altered matrix with pink carbonate specks (<0.2cm) throughout matrix. Weak foliation at ~45° to core axis.
			53.32	54.05	0.73				DK	GY											-Similar to general description. High muscovite content. Foliation at ~45° to core axis.
			54.05	55.25	1.20		VEN			WH			3I								-Quartz vein at 54.94-55.25m at ~30° to core axis, hosted in a strongly silicified schist with calcite clots (<0.5cm) throughout matrix.
			55.25	57.18	1.93			FG	MD	GY			3I								-Similar to general description. Slight increase in silicification.
			57.18	57.41	0.23		FEL		LT	GN			3I	SER	2I						-Felsic dyke at ~45° to core axis. Weakly foliated at ~45° to core axis.
			57.41	62.37	4.96			FG	DK	BN											-Similar to general description. Foliation at ~50° to core axis. Pyrite noted on fracture surfaces.
			62.37	63.58	1.21				MD	GN				SER	2I						-Similar to general description. Increased sericite and chlorite. Foliation at ~45° to core axis.
			63.58	66.36	2.78		FEL	MG						CHL	2I	0.50		Sp	0.10		-Several intervals of porphyritic felsic dykes, with varying intensity of chlorite alteration. Contacts are sharp, generally oriented at ~55° to core axis. Interval of schist may be xenoliths within dyke units(?). One veinlets at 66.20m with pyrite and sphalerite.
			66.36	70.77	4.41			FG	LT	GN	FO			SER	2I	0.70					-Similar to general description, increased sericite content. Pyrite veinlets noted throughout. Foliation at ~50° to core axis.
			70.77	74.15	3.38				DK	GN			3I								-Similar to general description. Slight increase in silicification. Moderate foliation at ~50° to core axis.
			74.15	74.32	0.17		VEN			WH			5I								-Quartz vein at ~35° to core axis. No significant sulphides.
			74.32	76.88	2.56				DK	GN						0.30		Sp	0.30		-Similar to general description - moderately foliated at ~50° to core axis. One quartz-carbonate veinlet (<0.5cm) carrying pyrite and sphalerite.
			76.88	78.49	1.61		FEL	MG	LT	GN	PO					0.40					-Similar to 63.58-66.36m. Several intervals of felsic dykes with schists in between with sharp contacts at ~35° to core axis. Pyrite veinlets noted. Schist interval may be xenoliths within felsic dyke.
			78.49	79.43	0.94				MD	BN											-Similar to general description. Foliation at ~50° to core axis.
			79.43	82.87	3.44															X	-Similar to general description. Strongly foliated at ~50° to core axis. Minor interval of silica flooding/veins at 82.10-82.34m.
82.87	87.43	4.56					LST	FG	LT	GY	MA		1I								Mixed Interval (Limestone, Felsic Dyke, Schist); "Interbedded" grey massive limestone, weakly sericite altered quartz-feldspar porphyritic felsic dykes and moderately foliated quartz-muscovite-biotite schist. Fairly sharp contacts, generally at ~50° to core axis.
							FEL	MG	LT	GN	PO			SER	2I	0.20					Low vein density, dominantly narrow calcite veinlets at ~35° to core axis.
							SCH	FG	DK	GY	FO										Trace sulphides, mostly hosted in felsic dyke intervals, appearing as narrow veinlets (<0.2cm).
			82.87	83.38	0.51		VEN		LT	GY			5I								Hard and competent core rock, fracturing at ~35-50° to core axis.
			83.38	83.89	0.51		SCH	FG	MD	GY	FO		2I								-Quartz vein at ~50° to core axis. No significant sulphides.
			83.89	84.51	0.62		FEL	MG	LT	GN			2I	SER	3I						-Micaceous schist with quartz/silica flooded bands. Foliation at ~60° to core axis. Weakly calcareous matrix.
			84.51	85.83	1.32		LST		LT	GY	MA										-Weak-moderately silicified and sericite altered porphyritic felsic dyke. Weakly foliated at ~45° to core axis.
			85.83	86.38	0.55		FEL		LT	GN	PO			SER	2I	0.50					-Grey, fine grained to massive limestone. No significant sulphides.
																					-Felsic dyke, weakly sericite altered. Contacts at ~60° to core axis. Pyrite wisps noted throughout matrix.

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			86.38	87.43	1.05				LT MD	GY GN	BN		2I								-Mixed bands of schist and limestone. Moderate=strongly calcareous matrix. Foliation at ~50° to core axis.
87.43	107.78	20.35					SCH	MG	LT	GN	FO		2I	SER	2I						Quartz-Muscovite-Biotite Schist; medium green and grey, moderate-strongly foliated quartz-muscovite-biotite schist. Foliation at ~40° to core axis. Moderately silicified matrix. Elongated quartz eyes present through most of matrix.
																					Low-medium vein density, quartz +/- carbonate veinlets/veins (<1cm) generally at ~50° to core axis.
																0.50					Trace-minor sulphides present throughout, generally as discontinuous veinlets (<0.5cm). Competent core rock, low-moderate fracturing, dominantly at ~30-40° to core axis.
			87.43	88.84	1.41									SER	3I						-Similar to general description. Increase sericite alteration, moderately foliated at ~60° to core axis. Small zone of grey silica flooding noted,
			88.84	89.18	0.34		VEN		DK	GN WH	BX		3I	CLY	3I	2.00					-Brecciated quartz vein at ~55° to core axis. Grey gouge and fractured core. Sulphides noted in shattered core rock.
			89.18	90.45	1.27				MD	GN	FO			CHL	2I	0.20					-Similar to general description with increased chlorite. Strongly foliated at ~65° to core axis. Narrow pyrite wisps noted.
			90.45	91.88	1.43				MD	GN			3I	CHL	2I	0.50					-Increased silicification and quartz eyes in matrix. Foliation at ~45° to core axis. Pyrite clots in white silica bands/quartz veins.
			91.88	93.02	1.14		FEL		LT	GY	PO		3I			0.10					-Light grey silicified felsic dyke. Weakly gradational contacts at ~45° to core axis.
			93.02	93.74	0.72				DK	GN				CHL	4I						-Similar to general description with moderate-strong chlorite alteration. Foliation at ~60° to core axis. Pyrite wisps common. One ~3cm band of coarse granular gouge present.
			93.74	96.55	2.81				MD	GN				SER	3I	1.00					-Similar to general description with increased sericite and chlorite alteration of the matrix. Pyrite commonly seen in grey-white quartz +/- carbonate veinlets/veins (<2cm, at ~30-50° to core axis)
			96.55	101.14	4.59				MD	GN			3I			2.50					-Similar to 90.45-91.88m. Strongly foliated, silicified schist with quartz eyes (<0.3cm). Foliation at ~50° to core axis. Several patches of silica flooding present, associated with sericite altered envelopes and sulphides.
			101.14	102.28	1.14		VEN		DK	GN WH			4I	CHL	3I						-White quartz vein at 101.61-101.87m at ~35° to core axis and dark green chlorite altered envelope zone.
			102.28	103.79	1.51				MD	GN				SER	3I						-Similar to general description. Slight increase in sericite alteration.
			103.79	104.11	0.32		VEN			WH			4I								-Silica flooded zone with "fragments" of muscovite-rich host rock. Oriented at ~55° to core axis. No significant sulphides.
			104.11	105.06	0.95			FG	DK	GY			1I			3.00					-Dark grey, fine grained micaceous schist. Foliation at ~55° to core axis. Sulphides present as fine-medium disseminated blebs (<1cm).
			105.06	105.27	0.21		VEN			WH	BX										-Quartz vein/zone of silica flooding, moderately brecciated and oriented at ~40° to core axis. High muscovite content in surrounding host rock.
			105.27	107.78	2.51				MD	BN				CLY	2I						-Similar to general description. Increased clay alteration, increasing moving downhole. Foliation at ~65° to core axis.
107.78	108.27	0.49	107.78	108.27	0.49		VEN			WH			5I			5.00	Sp	0.70			Quartz Vein; Grey--white quartz vein with ~10cm wide alteration envelopes up- and downhole. High muscovite content in altered host rock.
									DK	GY											Sulphides commonly noted as veinlets and bands at the edges of the vein and as blebs within the vein material. Oriented at ~75° to core axis.

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
108.27	129.28	21.01					SCH	FG	MD	GN	FO		2I	CLY	2I						Muscovite-Chlorite-Biotite Schist; Fine grained, weakly clay altered muscovite-chlorite-biotite schist. Foliation appear to vary between ~20-45° to core axis. Patchy zones of weak silicification in a weakly calcareous matrix. Irregular bands of (bleached?) quartz-mica schist (<5cm) present throughout.
									MD	GY											Moderate veining density, generally white calcite veinlets noted. Two preferred orientation at ~25° and ~50° to core axis.
																0.50		Sp	0.30		Minor sulphides noted, generally occurring as fine disseminated grains and veinlets (<0.5cm) in less silicified intervals. Pyrite, galena, brown sphalerite.
																		Gn	0.30		Soft and slightly blocky core rock, possibly due to clay content (and transport of rock to processing facility). Fracturing generally along foliation and veining structures. Minor zones of rubble and shattered rock also present.
			108.27	111.77	3.50				MD	TN				SER	3I	0.20					-Similar to general description. Foliation at ~35° to core axis. Strongly foliated with fine disseminated pyrite grains scattered throughout. Slightly bleached matrix.
			111.77	114.70	2.93				MD	BN			2I			0.10					-Similar to general description. Interval of mixed and crenulated bands of schist. Slight increase in silicification. Foliation at ~25° to core axis.
									LT	GY											
			114.70	116.81	2.11				MD	BN	RB			SER	3I	0.30		Gn	0.30		-Similar to general description - blocky interval with small rubble zones. Foliation at ~40° to core axis. Fine sulphide grains noted in rubble zone.
			116.81	117.82	1.01				MD	TN	FO		2I								-Similar to 111.77-114.70m. Slight increase in silicification. Foliation at ~45° to core axis. No bands of quartz-mica schist noted.
			117.82	118.41	0.59				MD	BN	BX										-Similar to general description. Increased calcite veinlets giving rock a brecciated texture. Shattered core.
			118.41	120.26	1.85				MD	TN	FO		2I								-Similar to 111.77-114.70m. Weakly silicified matrix. Foliation at ~40° changing to ~20° to core axis moving downhole.
			120.26	120.88	0.62				DK	GN	BX		2I	CHL	3I						-Fine grained dark green, brecciated matrix. Weakly silicified and moderately chlorite altered. Shattered white grey quartz vein noted.
			120.88	121.18	0.30		VEN			WH			5I			1.00					-Quartz vein at ~50° to core axis with sulphide rich envelope zones (~3cm wide).
			121.18	125.74	4.56				DK	GN			2I	CHL	3I	1.00		Sp	0.30		-Similar to 120.26-120.88m. Dark grey-green, fine grained matrix. Weakly silicified and chlorite altered rock. Weakly foliated at ~20° to core axis. Slightly blocky/shattered core. Minor rubble zones also present. Minor-moderate sulphides - pyrite as blebs throughout while sphalerite and galena in veinlets (<0.5cm) at ~50° to core axis.
																		GN	0.50		
			125.74	129.28	3.54				MD	GY			2I	SER	2I						-Similar to 111.77-114.70m. Mixed and foliated bands (<3cm) of quartz-mica schist noted. Silicified with weak sericite content. Foliation at ~30° to core axis.
129.28	150.80	21.52					SCH	FG	MD	BN	FO			CLY	3I						Muscovite-Chlorite-Biotite Schist; Similar to 108.27-129.28m. Fine grained, clay altered muscovite-chlorite-biotite schist. Foliation at ~30° to core axis. Moderately clay altered with localized zones of silica flooding.
																					Moderate vein density, generally irregular white calcite veinlets (<0.5cm) at ~50° to core axis.
																0.40		Sp	0.10		Trace sulphides, generally occurring as finely disseminated grains and carried in quartz +/- carbonate veinlets as small blebs.
																		Gn	0.10		Blocky and shattered core rock, likely due to transport. Low-moderate angled fracturing (<40° to core axis) common. Surfaces often coated in thin layer of clay.
			129.28	130.76	1.48				MD	TN	BX			CLY	4I	0.70					-Similar to general description with increased clay alteration of matrix. Core rock is brecciated and shattered. Fine disseminated pyrite noted.
			130.76	131.96	1.20				LT	BN	FO			SER	3I	0.50					-Muscovite rich interval. Strongly foliated at ~30° to core axis.
			131.96	136.30	4.34				MD	BN	FO		1I	SER	3I	0.50		Gn	0.20		-Similar to general description. Increased sericite content with strong foliation at ~25° to core axis. Weakly silicified matrix, faint quartz eyes (<0.3cm) seen in localized zones. Sulphides tend to occur in veinlets, often in zones of higher clay content. One quartz vein (~1.5cm) seen at 135.01m at ~70° to core axis.

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION	
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other				
														Type	Intensity			Type	Conc. (%)			
			136.30	136.38	0.08	VEN			WH				5I			0.70					-Quartz vein at ~65° to core axis.	
			136.38	137.32	0.94				MD	GN	FO											-Similar to 131.96-136.30m. Foliation at ~30° to core axis.
			137.32	140.00	2.68				MD	TN	FO			SER	3I	0.20						-Muscovite rich interval - strongly foliated at ~20° to core axis. Quartz +/- carbonate veinlets and quartz-mica schist bands present. Trace sulphides.
			140.00	142.50	2.50				MD	BN	FO		1I									-Similar to general description. Faint foliation appears to be almost parallel to core axis. Weakly silicified matrix. Trace sulphides in veinlets.
			142.50	143.04	0.54				MD	GY	BX		2I									-Interval with increased silicification and calcite veinlets, giving a brecciated texture.
			143.04	145.80	2.76				MD	TN	FO			SER	2I	0.50	Sp	Gn	0.20	0.30		-Similar to general description. Faint foliation and veining structures all appear to be at low angles (<30°) to core axis. Higher angled quartz +/- carbonate veinlets carry sulphides. On vein (~1.5cm) with galena and brown sphalerite at ~75° to core axis.
			145.80	148.67	2.87				MD	TN				SER	2I	0.20	Sp		0.20			-Similar to 143.04-145.80m with slight decrease in sericite alteration. Foliation at ~30° to core axis. Moderately calcareous matrix. Trace sulphides.
			148.67	149.73	1.06		FG		MD	BN	FO		2I	CLY	1I	0.10						-Muscovite-chlorite-biotite schist with weak-moderately silicified matrix. Decrease fracturing. Foliation at ~30° to core axis. Trace sulphides
			149.73	149.92	0.19		VEN			WH			4I			0.30						-Zone of silica flooding/quartz veining at ~55° to core axis, carrying sulphides.
			149.92	150.80	0.88			FG	MD	GN			2I									-Similar to 148.67-149.73m. Fine grained, moderately foliated mica schist. Foliation at ~35° to core axis.
150.80	155.15	4.35	150.80	155.15	4.35		FEL		LT	GY	PO		3I		SER	2I	1.00					Felsic Dyke; Silicified quartz-feldspar porphyritic dyke unit. Weak-moderately foliated at ~30° to core axis. Grey quartz bands (<3cm) seen throughout, generally at ~55° to core axis. Weakly calcareous matrix with small sub rounded quartz eyes (<0.3cm). Grey-white quartz veining common, ~5% of interval.
									LT	GN												Minor sulphides noted throughout, generally associated with quartz veins.
																						Hard, competent core rock, rare fracturing at ~25° to core axis. Contacts at ~30° and ~40° to core axis.
155.15	159.97	4.82					SCH	FG	LT	GN	FO		4I	SER	3I	0.20	Sp		0.10			Quartz-Muscovite-Biotite Schist; moderately silicified quartz-muscovite-biotite schist. Alternating zones of dark brown and grey-green (sericite altered?) zones, gradational contacts at ~80° to core axis.
									MD	BN	PO											Moderate veining density with dominantly narrow calcite veinlets (<0.3cm) at ~60° to core axis. Minor quartz veining also present.
																						Trace sulphides, pyrite occurring in blebs associated with quartz veins.
			155.15	155.52	0.37				MD	BN	FO		4I							X		Hard and competent core rock, fracturing at ~30° to core axis.
			155.52	156.47	0.95		FG		LT	GN				SER	3I	0.30	Sp		0.20			-Strongly foliated at ~25° to core axis. Elongated quartz eyes (<0.3cm) along foliation. High biotite content.
			156.47	157.85	1.38				MD	BN	FO		4I									-Fine grained sericite altered interval. Faint foliation planes. Quartz vein (~4cm) at ~65° to core axis. Pyrite and sphalerite noted in quartz veining.
			157.85	159.97	2.12		FG		LT	GN				SER	3I							-Similar to 155.15-155.52m. Biotite rich matrix with white quartz eyes. Weakly foliated.
																						-Similar to 155.52-156.47m. Sericite altered, fine grained matrix with grey-white quartz veinlets /veins (<1.5cm) at ~70° to core axis.
159.97	176.03	16.06					SCH	FG	MD	GN	FO		2I	CHL	2I							Muscovite-Chlorite-Biotite Schist; Medium-dark grey-green chlorite altered muscovite-chlorite-biotite schist. Weak-moderately silicified and weakly foliated matrix at ~25° to core axis.
											BX					0.70	Sp		0.30			Moderate vein density, quartz and carbonate veinlets common (<1cm), often disrupted and deformed. Dominant orientation appears to be at ~45° to core axis.
																						Minor-moderate sulphides. Pyrite and sphalerite, associated with quartz veins.
																						Fairly competent core rock with minor zones of blocky, rubbly core. No preferred fracturing orientation.

## Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
			159.97	161.40	1.43				DK	GN	BX		3I	SER	2I	1.00					-Similar to general description. Weakly silicified and sericite altered matrix. Foliation at ~65° to core axis. Grey-white quartz veins giving weakly brecciated textures.
			161.40	162.01	0.61			FG	LT	GN				SER	3I						-Similar to 155.15-155.53m. Foliation at ~30° to core axis.
			162.01	163.03	1.02					GY	BX			CLY	3I						-Interval of stronger clay alteration. Fine to coarse granular gouge noted, weakly oriented at ~50° to core axis. No significant sulphides.
			163.03	163.22	0.19		VEN			WH			5I			0.20		Sp	0.50		-Interval of silica flooding/quartz +/- carbonate veining. Mixed/brecciated textures. Trace sulphides.
			163.22	168.78	5.56				DK	BN	BX		2I	CHL	3I	0.50		Sp	0.50		-Similar to general description. Chlorite altered, strongly foliated schist with strongly calcareous matrix. Foliation at ~30° to core axis. Occasional patches with faint quartz eyes. Minor sulphides noted, generally associated with veining structures.
			168.78	169.77	0.99		SCH		DK	GN			3I	CHL	2I						-Interval of chlorite and sericite altered schist with grey-white quartz veins at 168.80-168.92m, 169.21-169.25m and 169.37-169.43m, preferred orientation at ~65° to core axis. No significant sulphides in veins.
							VEN			GY				SER	3I						
			169.77	170.87	1.10		VEN			GY	BX		4I			1.00		Sp	0.70		-Grey-white quartz vein interval. Contacts at ~50° to core axis with fragments of chlorite altered schist. Interval cross-cut by calcite and sulphide veinlets at ~50° to core axis (<0.3cm).
			170.87	171.50	0.63		VEN			GY	BX		3I	SER	3I	0.20		Sp	0.10		-Pitted quartz vein at ~45° to core axis, moderately clay altered. Trace sulphides.
			171.50	173.86	2.36				MD	GN				CLY	2I	1.00					-Similar to general description with sericite altered matrix. Slightly mixed/crenulated matrix (foliation at ~40° to core axis?) - deformed. Minor granular gouge noted.
			173.86	175.15	1.29				DK	GN				CHL	3I	0.70		Sp	0.20		-Similar to general description with increased chlorite. Foliation at ~35° to core axis. Narrow sulphide veinlets.
			175.15	175.46	0.31		VEN			WH			4I	SER	3I	1.50					-Interval of silica flooding and increased muscovite in surrounding host rock. Foliated at ~25° to core axis.
			175.46	176.03	0.57				DK	GN				CHL	3I	0.50		Sp	0.20		-Similar to 173.86-175.15m. Minor quartz vein with associated sulphides.
176.03	186.22	10.19					SCH		MD	GN	FO		2I	SER	1I						Muscovite-Chlorite-Biotite; Weak-moderately silicified. Strongly foliated muscovite-chlorite-biotite schist. Foliation at ~40° to core axis.
									MD	GY							0.20				Moderate-high calcite veinlet density - strongly calcareous matrix in these zones. Most calcite veinlets along foliation with one set noted at ~25-30° to core axis, cross-cutting foliation.
																					Trace sulphide, generally occurring as marrow irregular veinlets, dominantly pyrite.
																					Fairly competent core rock and minor fracturing along foliation at ~50° to core axis.
			176.03	176.27	0.24				LT	GN			3I	SER	3I						-Contact zone - moderately sericite altered zone with granular gouge followed by silicified and, oriented at ~55° to core axis.
			176.27	177.21	0.94				LT	GY	BN										-Similar to general description. High calcite content, giving matrix a bleached appearance. Foliation at ~55° to core axis.
			177.21	179.31	2.10				MD	GN	FO		3I	SER	3I	0.50					-Similar to general description with decreased calcite veinlets. Foliation at ~40° to core axis. Several grey-white quartz veinlets (<1cm) and fragments noted. Sulphide veinlets present.
			179.31	182.57	3.26				MD	GY	BN		1I			0.20				X	-Similar to 176.27-177.21m. Foliation at ~45° to core axis. Weakly silicified with trace sulphides.
			182.57	186.22	3.65				MD	GY	FO		3I	SER	2I						-Similar to 177.21-179.31m. Foliation at ~40° to core axis. Weakly silicified and sericite altered matrix with decreased calcite veinlets.
186.22	195.07	8.85					SCH		MD	BN	FO		3I								Quartz-Muscovite-Biotite Schist; Moderate-strongly silicified quartz-muscovite-biotite schist. Foliated at ~30° to core axis. Interfingered grey quartz and biotite-rich bands with occasional patches with strong calcite veining (zones of strongly calcareous matrix).
																					Occasional patches with calcite bands along foliation. Rare calcite veinlets at ~30° to core axis and two quartz veins present.



Geology Log

GENERAL INTERVAL			DETAILED INTERVAL			LITHOLOGY						ALTERATION				MINERALS				Photo	DETAILED DESCRIPTION
From (m)	To (m)	Interval (m)	From (m)	To (m)	Interval (m)	Unit	Rock Type	Grain Size	Shade	Colour	Texture	Oxidation	Silicification	Other		Pyrite		Other			
														Type	Intensity			Type	Conc. (%)		
																0.20				Trace sulphides, generally occurring in narrow veinlets associated with quartz +/- carbonate veining. Hard and competent core rock, rare fracturing at ~35° to core axis. -Similar to general description. Foliation at ~25° to core axis. -Quartz vein at ~30° to core axis. No significant sulphides.	
			186.22	187.46	1.24				MD	BN	FO		3I								-Similar to general description. Foliation at ~25° to core axis.
			187.46	187.81	0.35		VEN			WH			5I								-Quartz vein at ~30° to core axis. No significant sulphides.
			187.81	194.76	6.95				MD	BN	FO		3I							X	-Similar to general description. Foliation at ~25° to core axis.
			194.76	195.07	0.31				MD	BN	BX					1.00				X	-Brecciated interval. Clasts comprised of high biotite schist host rock with a grey calcareous matrix. Sulphide clots present (<1cm).
																					EOH @ 195.07m.

## Secondary Structure Log

Hole: QB-12-03

Logger Name:

Date: September 19, 2012

2° Structure Type	From (m)	To (m)	Attitude (TCA)	Attitude (TRFE)	Count	MINERALS		DESCRIPTION	Photo
						Type	Conc. (%)		
VT	20.54	21.34	50.00	0.00	2.00			Along with foliation.	
VT	25.95	26.55	70.00	235.00	2.00				
VT	26.58	26.77	25.00	175.00	1.00				
VT	39.00	39.48	20.00	210.00	1.00				
VT	43.20	44.25	40.00	0.00	2.00			Along with foliation.	
VT	53.00	53.58	58.00	0.00	2.00			Along with foliation.	
VN	63.41	64.01	42.00	0.00	1.00			Along with foliation.	
VT	65.00	65.35	30.00	0.00	2.00			Along with foliation.	
VT	65.98	66.28	60.00		2.00				
VT	66.15	66.28	45.00		1.00				
VT	69.54	70.10	54.00	250.00	4.00				
VN	74.00	74.66	49.00	0.00	1.00				
VN	76.83	77.25	21.00	240.00	1.00				
VN	78.00	78.18	49.00	0.00	1.00				
VN	78.18	78.39	56.00	130.00	1.00				
VN	82.90	83.29	69.00	0.00	1.00			Along with foliation.	
VN	88.00	88.39	55.00	0.00	1.00			Along with foliation.	
VT	95.36	95.91	3.00	200.00	3.00				
VN	95.91	96.21	24.00	180.00	1.00				
VN	97.54	97.83	50.00	148.00	1.00				
VN	97.83	98.86	60.00	55.00	2.00				
VN	101.60	101.87	38.00	0.00	1.00			Along with foliation.	
VT	126.00	126.33	35.00	170.00	2.00				
VN	136.00	136.49	59.00		1.00				
VT	136.51	137.00	70.00	0.00	1.00				
VT	146.30	146.40	51.00	170.00	1.00				
VT	146.30	146.40	60.00	0.00	1.00			This veinlet crosses the previous one.	
VN	152.40	154.05	80.00		9.00				
VN	155.62	156.85	71.00	0.00	2.00			Along with foliation.	
VT	158.86	159.81	60.00	100.00	4.00				
VN	164.30	164.59	64.00	144.00	3.00				
VT	164.59	165.60	85.00	0.00	2.00				

## Secondary Structure Log

[illegible]

## Density Log

**Hole:** QB-12-03

**Date:** September 19 2012

[illegible]

# Sample Log

Hole: QB-12-03

Date: September 19 2012

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample Number	Batch	Weight (kg)			Comments
0.00	0.95	0.95	--	--	N/S					Casing; no recovery
0.95	6.90	5.95	--	--	N/S					Overburden
6.90	9.41	2.51	2.51	100	L840160	6	8.40			Felsic dyke
9.41	11.45	2.04	2.04	100	L840161	6	6.80			Felsic dyke
11.45	13.96	2.51	2.51	100	L840162	6	8.60			
13.96	16.43	2.47	2.47	100	L840163	6	8.40			Felsic dyke, quartz vein
--	--				L840164	6	0.30			Standard: CDN-ME-8
16.43	19.11	2.68	2.68	100	L840165	6	9.30			
19.11	21.42	2.31	2.30	99.6	L840166	6	8.00			
21.42	24.04	2.62	2.62	100	L840167	6	9.20			
24.04	26.06	2.02	1.94	96	L840168	6	6.80			
26.06	27.90	1.84	1.82	98.9	L840169	6	6.10			Felsic dyke
27.90	28.82	0.92	0.78	84.8	L840170	6	2.50			Gouge/fault zone(?)
--	--				L840171	6	3.00			Blank
28.82	30.18	1.36	1.36	100	L840172	6	4.60			
30.18	32.38	2.20	2.19	99.5	L840173	6	7.40			
--	--				L840174	6	3.10			Quarter split duplicate
32.38	42.70	10.32			N/S					
42.70	44.19	1.49	1.44	96.6	L840175	6	5.10			
44.19	46.14	1.95	1.94	99.5	L840176	6	6.60			
46.14	48.00	1.86	1.85	99.5	L840177	6	6.60			
--	--				L840178	6	0.00			Coarse reject duplicate
48.00	49.88	1.88	1.86	98.9	L840179	6	6.40			
49.88	51.62	1.74	1.67	96	L840180	6	5.60			
51.62	53.32	1.70	1.70	100	L840181	6	6.10			
53.32	61.98	8.66			N/S					
61.98	63.58	1.60	1.59	99.4	L840182	6	5.60			
63.58	66.36	2.78	2.74	98.6	L840183	6	9.30			Felsic dyke
--	--				L840184	6	3.00			Blank
66.36	68.57	2.21	2.09	94.6	L840185	6	7.70			
68.57	70.11	1.54	2.19	142	L840186	6	7.60			
70.11	72.50	2.39	1.69	70.7	L840187	6	6.00			
72.50	74.32	1.82	1.82	100	L840188	7	6.20			
--	--				L840189	7	0.30			Standard: CDN-ME-8
74.32	76.88	2.56	2.46	96.1	L840190	7	8.50			Sphalerite in veinlet
76.88	78.49	1.61	1.58	98.1	L840191	7	5.30			Felsic dyke
78.49	80.68	2.19	2.15	98.2	L840192	7	7.80			
80.68	82.87	2.19	2.17	99.1	L840193	7	7.60			
82.87	85.83	2.96	2.95	99.7	L840194	7	10.00			Mixed interval; LST, FEL, SCH
--	--				L840195	7	4.20			Quarter split duplicate
85.83	87.43	1.60	1.60	100	L840196	7	5.80			Mixed interval; LST, FEL, SCH
87.43	89.16	1.73	1.73	100	L840197	7	5.70			Brecciated quartz vein/gouge
--	--				L840198	7	3.00			Blank
89.16	91.88	2.72	2.71	99.6	L840199	7	8.90			
91.88	93.74	1.86	1.85	99.5	L840200	7	6.10			

## Sample Log

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample Number	Batch	Weight (kg)			Comments
93.74	96.55	2.81	2.81	100	L840251	7	9.30			
--	--				L840252	7	0.30			Standard: CDN-ME-8
96.55	98.84	2.29	2.29	100	L840253	7	7.70			
98.84	101.14	2.30	2.30	100	L840254	7	7.80			
101.14	103.79	2.65	2.64	99.6	L840255	7	8.80			
103.79	105.06	1.27	1.24	97.6	L840256	7	4.30			
105.06	107.78	2.72	2.50	91.9	L840257	7	8.50			
107.78	108.27	0.49	0.49	100	L840258	7	1.60			Quartz vein
--	--				L840259	7	3.00			Blank
108.27	110.03	1.76	1.62	92	L840260	7	6.30			
110.03	111.77	1.74	1.67	96	L840261	7	6.00			
111.77	114.76	2.99	2.69	90	L840262	7	10.40			
114.76	116.81	2.05	1.74	84.9	L840263	7	7.00			
116.81	118.41	1.60	1.50	93.8	L840264	7	5.30			
118.41	120.88	2.47	2.47	100	L840265	7	9.10			
--	--				L840266	7	0.00			Coarse reject duplicate
120.88	123.31	2.43	2.25	92.6	L840267	7	8.10			Quartz vein
123.31	125.74	2.43	2.29	94.2	L840268	7	8.30			
125.74	127.47	1.73	1.73	100	L840269	7	6.40			
127.47	129.28	1.81	1.74	96.1	L840270	7	6.20			
129.28	131.96	2.68	2.25	84	L840271	7	8.80			
131.96	134.64	2.68	2.58	96.3	L840272	7	9.80			
134.64	137.32	2.68	2.60	97	L840273	7	9.00			
137.32	140.00	2.68	2.45	91.4	L840274	8	8.80			
--	--				L840275	8	0.30			Standard: CDN-ME-6
140.00	143.04	3.04	2.90	95.4	L840276	8	10.50			
143.04	145.80	2.76	2.64	95.7	L840277	8	9.20			
145.80	148.67	2.87	2.65	92.3	L840278	8	9.70			
--	--				L840279	8	3.00			Blank
148.67	150.80	2.13	2.13	100	L840280	8	7.30			
150.80	152.92	2.12	2.12	100	L840281	8	7.00			
152.92	155.15	2.23	2.23	100	L840282	8	7.30			
--	--				L840283	8	0.00			Coarse reject duplicate
155.15	157.85	2.70	2.70	100	L840284	8	9.10			
157.85	159.97	2.12	2.13	100	L840285	8	7.30			
159.97	162.01	2.04	1.88	92.2	L840286	8	7.00			
162.01	164.26	2.25	2.02	89.8	L840287	8	7.00			
164.26	166.51	2.25	2.25	100	L840288	8	7.20			
--	--				L840289	8	3.00			Blank
166.51	168.78	2.27	2.27	100	L840290	8	7.60			
168.78	171.50	2.72	2.72	100	L840291	8	9.20			
171.50	173.86	2.36	2.32	98.3	L840292	8	8.00			
173.86	176.03	2.17	2.17	100	L840293	8	8.30			
176.03	177.21	1.18	1.17	99.2	L840294	8	4.10			
177.21	179.31	2.10	2.06	98.1	L840295	8	6.90			
--	--				L840296	8	0.30			Standard: CDN-ME-8
179.31	181.61	2.30	2.27	98.7	L840297	8	8.00			
181.61	183.91	2.30	2.30	100	L840298	8	7.50			
183.91	186.22	2.31	2.30	99.6	L840299	8	8.10			
186.22	187.81	1.59	1.59	100	L840300	8	5.00			

## Sample Log

[illegible]

# Geotechnical Log

Hole:QB-12-03

Tech Name: Kristina An

Date: September 19,2012

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	HCI Reactivity	Hardness	Strength	Weathering	Joint Sets						DESCRIPTION
											spacing	Attitude (tca)	Shape	Roughness	Weathering	Gouge	
0.00	0.95	0.95	0.00														Casing, no recovery.
0.95	1.52	0.57	0.57		0.00		0	2	3	4							
1.52	3.05	1.53	0.32		0.00		0	3	3	3							
3.05	4.57	1.52	0.39		0.00		0	3	3	4							
4.57	6.10	1.53	0.41		0.00		0	3	4	3							
6.10	7.62	1.52	0.85		0.48		0	3	4	3							
7.62	9.14	1.52	1.52		1.40		0	3	4	2							
9.14	12.19	3.05	3.05		1.89		0	3	3	1							
12.19	15.24	3.05	3.05		1.46		0	3	3	1	0.18	36	1	2	1		
15.24	18.29	3.05	3.05		1.77		0	3	3	1	0.13	60	1	2	1		
18.29	21.34	3.05	3.01		1.70		0	3	3	1	0.12	58	1	2	1		
21.34	24.38	3.04	3.04		1.67		0	3	3	2	0.13	70	1	2	1	1	
24.38	27.43	3.05	3.05		1.38		0	3	3	2	0.13	50	1	2	1		
27.43	30.48	3.05	2.95		0.94		1	3	3	1	0.06	61	1	2	1		
30.48	33.53	3.05	3.05		1.76		1	3	3	1							
33.53	36.58	3.05	3.05		1.55		0	3	3	1	0.12	51	1	2	1		
36.58	39.62	3.04	3.04		1.90		0	3	3	1							
39.62	42.67	3.05	3.03		2.32		0	3	3	1	0.09	65	1	2	1	2	
42.67	45.72	3.05	3.05		0.87		0	3	3	1	0.11	58	1	2	1		
45.72	48.77	3.05	3.05		2.22		0	3	3	1	0.28	46	1	2	1	1	
48.77	51.82	3.05	3.05		1.48		1	3	3	1	0.22	65	1	2	1		
51.82	54.86	3.04	3.04		1.89		1	3	3	1							
54.86	57.91	3.05	3.05		1.22		1	3	4	1							
57.91	60.96	3.05	3.05		1.30		1	3	4	1							
60.96	64.01	3.05	3.05		1.93		1	3	3	1							
64.01	67.06	3.05	3.05		1.17		1	3	3	1	0.1	64	1	2	1		
67.06	70.10	3.04	3.04		1.44		0	3	3	1							4 cm of stick-up.
70.10	73.15	3.05	3.05		1.77		1	3	3	1	0.19	68	1	2	1		
73.15	76.20	3.05	2.96		0.50		1	3	3	1	0.14	54	1	2	2		
76.20	79.25	3.05	3.05		1.51		0	3	3	1	0.11	53	1	2	1		5 cm of stick-up.
79.25	82.30	3.05	3.05		1.25		1	3	3	1	0.24	53	1	2	1		
82.30	85.34	3.04	3.04		1.83		3	3	3	1	0.16	46	1	2	1		
85.34	88.39	3.05	3.03		2.21		3	3	3	1	0.23	60	1	2	1		



# Geotechnical Log

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	RQD (m)	RQD (%)	HCl Reactivity	Hardness	Strength	Weathering	Joint Sets						DESCRIPTION
											spacing	Attitude (tca)	Shape	Roughness	Weathering	Gouge	
88.39	91.44	3.05	3.05		0.87		3	3	3	1							
91.44	94.49	3.05	3.05		1.60		1	3	4	1	0.1	55	1	2	1		
94.49	97.54	3.05	3.05		1.67		1	3	3	1							
97.54	100.58	3.04	3.04		2.10		1	3	3	1	0.2	78	1	2	1		
100.58	103.63	3.05	3.05		0.94		1	3	3	1	0.13	58	1	2	1	2	
103.63	106.68	3.05	2.96		1.31		1	2	3	1	0.16	60	1	2	1		
106.68	109.73	3.05	3.05		0.83		1	2	3	1							
109.73	112.78	3.05	3.05		0.69		1	2	3	1							
112.78	115.82	3.04	3.04		1.09		1	2	3	1							
115.82	118.87	3.05	2.84		0.67		1	2	3	1							
118.87	121.92	3.05	2.95		0.19		1	2	3	1							
121.92	124.97	3.05	3.00		0.15		0	2	3	1							
124.97	128.02	3.05	3.03		1.66		1	2	4	1							
128.02	131.06	3.04	2.71		0.00		0	2	2	1							
131.06	134.11	3.05	3.05		0.00		1	2	2	1							
134.11	137.16	3.05	2.91		0.75		1	2	3	1							
137.16	140.21	3.05	2.91		0.60		3	2	3	1							
140.21	143.26	3.05	2.99		1.39		1	2	3	1	0.15	35	1	3	1	3	
143.26	146.30	3.04	3.00		0.49		1	2	2	1							
146.30	149.35	3.05	3.05		0.61		1	2	3	1							
149.35	152.40	3.05	3.05		2.16		3	2	3	1							
152.40	155.45	3.05	3.05		2.26		3	2	4	1							
155.45	158.50	3.05	3.03		1.95		3	3	2	1	0.16	70	1	3	1		
158.50	161.54	3.04	2.95		0.64		3	2	3	1							
161.54	164.59	3.05	2.90		1.14		3	2	3	1							
164.59	167.64	3.05	3.05		1.46		3	3	3	1							
167.64	170.69	3.05	3.05		1.24		3	3	3	1							8 cm of stick-up.
170.69	173.74	3.05	3.02		1.02		3	3	3	1							
173.74	176.78	3.04	3.04		0.96		3	3	3	1	0.14	60	2	3	1	1	4 cm of stick-up.
176.78	179.83	3.05	3.05		1.49		3	3	3	1							
179.83	182.88	3.05	3.05		2.36		3	2	4	1	0.25	71	1	3	1		
182.88	185.93	3.05	3.00		2.28		3	2	5	1							
185.93	188.98	3.05	3.05		2.54		3	2	5	1	0.46	58	1	3	1		
188.98	192.02	3.04	3.04		2.31		3	2	5	1							
192.02	195.07	3.05	3.05		2.01		3	2	3	1							End of hole at 195.07 m.

Hole:QB-12-03

Date: September 19, 2012

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS	Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
4.54	FO	38		119.79	FO	27	
7.36	FO	65		122.01	FO	16	
10	FO	66		125.87	FO	20	
13.26	FO	41		128.83	FO	32	
15.88	FO	55		131.7	FO	20	
18.51	FO	50		133.9	FO	29	
21.31	FO	58		135.11	FO	19	
23.68	FO	65		136.87	FO	30	
26.18	FO	35		138	FO	19	
29.14	FO	60		140.84	FO	24	
33.41	FO	34		144	FO	9	
36.89	FO	50		145.85	FO	15	
39.34	FO	48		147.7	FO	14	
40.95	FO	45		150.8	FO	40	
43	FO	50		155.34	FO	29	
46.04	FO	68		159.29	FO	28	
48.91	FO	60		162	FO	24	
51.51	FO	58		164.92	FO	18	
53.55	FO	60		167.58	FO	20	
55.57	FO	46		169.12	FO	25	
58.67	FO	35		174.84	FO	35	
63.58	FO	52		176.83	FO	68	
66.88	FO	38		179.61	FO	25	
69.81	FO	60		182.09	FO	29	
72.82	FO	48		185	FO	45	
73.82	FO	58		186.93	FO	17	
76	FO	60		188.88	FO	30	
78.87	FO	50		191.51	FO	45	
81.14	FO	57		194	FO	28	EOH at 195.07 m.
83.87	FO	54					
86.78	FO	54					
89.21	FO	51					
91.66	FO	50					
94.09	FO	58					
96.76	FO	60					
99.09	FO	57					
102.31	FO	50					
104.68	FO	37					
107	FO	61					
110.09	FO	32					
111.84	FO	39					
113.61	FO	41					
115.94	FO	58					

## PRIMARY STRUCTURE LOG

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
118.54	FO	48	

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS

# Magnetic Susceptibility Log

Hole:QB-12-03

Date: Sep-12

Depth (m)	Magnetic Susceptibility	DESCRIPTION
1.00	0.00	Rubble
2.00	0.00	Rubble
3.00	0.00	Rubble
4.00	0.37	
5.00	0.00	Rubble
6.00	0.00	Rubble
7.00	0.07	
8.00	0.01	
9.00	0.08	
10.00	0.02	
11.00	0.02	
12.00	1.34	
13.00	0.11	
14.00	0.06	
15.00	0.00	
16.00	0.02	
17.00	0.00	
18.00	0.06	
19.00	0.16	
20.00	0.12	
21.00	0.11	
22.00	0.65	
23.00	0.07	
24.00	0.27	
25.00	0.10	
26.00	0.00	
27.00	0.01	
28.00	0.05	
29.00	0.44	
30.00	0.08	
31.00	0.11	
32.00	0.07	
33.00	0.03	
34.00	0.00	
35.00	0.10	
36.00	0.03	
37.00	0.17	
38.00	0.21	
39.00	0.04	
40.00	0.01	
41.00	0.45	
42.00	0.03	
43.00	0.03	
44.00	0.36	
45.00	0.19	
46.00	0.06	
47.00	0.38	
48.00	0.10	
49.00	0.12	
50.00	0.39	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
52.00	0.02	
53.00	0.12	
54.00	0.03	
55.00	0.02	
56.00	0.03	
57.00	0.18	
58.00	0.19	
59.00	0.21	
60.00	0.21	
61.00	0.16	
62.00	0.22	
63.00	0.16	
64.00	0.04	
65.00	0.00	
66.00	0.01	
67.00	0.09	
68.00	0.24	
70.00	0.02	
71.00	0.13	
72.00	0.20	
73.00	0.46	
74.00	0.00	
75.00	0.08	
76.00	0.07	
77.00	0.03	
78.00	0.07	
79.00	1.14	
80.00	0.00	
81.00	0.01	
82.00	0.01	
83.00	0.01	
84.00	0.03	
85.00	0.02	
86.00	0.00	
87.00	0.01	
88.00	0.04	
89.00	0.01	
90.00	0.15	
91.00	0.05	
92.00	0.01	
93.00	0.02	
94.00	0.09	
95.00	0.05	
96.00	0.00	
97.00	0.10	
98.00	0.02	
99.00	0.16	
100.00	0.07	
101.00	0.07	
102.00	1.13	

# Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
51.00	0.25	
104.00	0.03	
105.00	0.01	
106.00	0.00	
107.00	0.02	
108.00	0.19	
109.00	0.09	
110.00	0.13	
111.00	0.22	
112.00	0.21	
113.00	0.04	
114.00	0.14	
115.00	0.05	
116.00	0.30	
117.00	0.29	
118.00	0.12	
119.00	0.13	
120.00	0.08	
121.00	0.07	
122.00	0.50	
123.00	0.38	
124.00	0.23	
125.00	0.15	
126.00	0.19	
127.00	0.11	
128.00	0.82	
129.00	0.03	
130.00	0.01	
131.00	0.79	
132.00	0.00	Rubble
133.00	1.02	
134.00	0.01	
135.00	0.07	
136.00	0.04	
137.00	0.44	
138.00	0.05	
139.00	0.01	
140.00	0.04	
141.00	0.20	
142.00	0.30	
143.00	0.00	
144.00	0.14	
145.00	0.07	
146.00	0.14	
147.00	0.04	
148.00	0.04	
149.00	0.07	
150.00	0.06	
151.00	0.05	
152.00	0.12	
153.00	0.01	

[illegible]

Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
154.00	0.13	
155.00	0.23	

Depth (m)	Magnetic Susceptibility	DESCRIPTION

## Box Log

**Hole: QB-12-03**

**Date:** Sep-12

Box #	From (m)	To (m)
1	0.95	8.08
2	8.08	12.27
3	12.27	16.43
4	16.43	20.54
5	20.54	24.38
6	24.38	28.33
7	28.33	32.38
8	32.38	36.58
9	36.58	40.90
10	40.90	45.00
11	45.00	49.26
12	49.26	53.58
13	53.58	57.69
14	57.69	61.98
15	61.98	66.28
16	66.28	70.42
17	70.42	74.66
18	74.66	79.08
19	79.08	83.29
20	83.29	87.65
21	87.65	91.82
22	91.82	95.91
23	95.91	100.17
24	100.17	104.52
25	104.52	108.73
26	108.73	112.78
27	112.78	116.72
28	116.72	120.35
29	120.35	123.70
30	123.70	127.47
31	127.47	130.28
32	130.28	133.88
33	133.88	137.50
34	137.50	141.28
35	141.28	144.77
36	144.77	148.67
37	148.67	152.77
38	152.77	156.85
39	156.85	160.80
40	160.80	164.59
41	164.59	168.45
42	168.45	172.14
43	172.14	175.85
44	175.85	179.83
45	179.83	184.00
46	184.00	188.13

[illegible]