

# QB

ZONE: _____	Grid East	Grid North	Easting	Northing	Elev.	Depth (m)
			419340	6698145	1008	263.65

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

HOLE: QB-12-02

CLAIM: YB83144

Contractor: Beaudoin Diamond Drilling

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

Core size: HQ

Casing depth: 0.79 (m) in / out

Drilling dates: August 23 - 26, 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	0.79	0.79	CAS	
0.79	2.74	1.95	OVB	
2.74	9.76	7.02	LST	
9.76	28.93	19.17	LST/SCH	
28.93	42.15	13.22	SCH	
42.15	47.69	5.54	LST	
47.69	55.72	8.03	LST	
55.72	71.10	15.38	LST	
71.10	104.17	33.07	SCH	
104.17	114.85	10.68	FEL	
114.85	119.44	4.59	LST/SCH	
119.44	124.11	4.67	FEL	
124.11	142.94	18.83	SCH	Intruded by FEL
142.94	179.24	36.30	FEL	
179.24	202.69	23.45	SCH	
202.69	210.11	7.42	FEL	
210.11	217.36	7.25	FEL	
217.36	263.63	46.27	SCH	

SAMPLES
Numbers: K191990 - K1920000, L828108 - L828150
L840151 - L840159
Total: 53
Batch: 4 (19 only) , 5, 6 (8 only)
Date Sent: _____
Certificate: WH2225404, WH12225407, WH12219229

COMMENTS

# Geology Log

Hole: QB-12-02

Logger Name: C. Chung

Date: September 07 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	0.79	0.79	0.00	0.79	0.79		CAS	--	--	--	--	--	--			--	--				Casing; No recovery.
0.79	2.74	1.95	0.79	2.74	1.95		OVB	--	LT MD	BN TN		4I									Overburden; Tan-brown overburden material, comprised of strongly weathered schist/limestone cobbles and fine granular clay, sand and grit. Moderate amounts of muscovite noted.
2.74	9.76	7.02					LST	FG	LT	GY	BX	2I	2I					Li	0.50		Limestone; Fine grained grey silicified limestone. Tan colouring mostly along fractures/veinlets. Very weak sericite alteration of the matrix. Moderate veining density, narrow (<0.1cm) at ~45° to core axis. Generally tan coloured carbonate veinlets with narrow pale green envelopes (<0.3cm). No significant sulphides noted.
										TN											Fairly competent core rock with minor fracturing, dominantly at ~50° to core axis. Surfaces are occasionally coated with trace-minor limonite. One low angled (~5-10°) fracture noted along calcite veinlet.
			2.74	3.36	0.62		SCH	MG	LT MD	GY GN	FO			CHL SER	2I 1I			Mu	40.00		-Moderately foliated quartz-muscovite schist with green (biotite to chlorite?) specks throughout matrix. Foliation at ~75° to core axis. Lower 7cm is orange coloured and strongly oxidized and muscovite rich.
			3.36	3.59	0.23		VEN			GY							0.50				-Quartz vein at ~75° to core axis, matrix appears moderately fractured but healed. Oxidized blebs of pyrite noted
			3.59	3.87	0.28		SCH	FG	MD MD	GY TN				CLY	3I						-Moderate calcareous, medium-dark grey muscovite schist with foliation at ~70° to core axis. Bands of strong clay alteration (<2cm) noted.
			3.87	8.19	4.32									SER	2I						-Similar to general description, with patches of more intense sericite alteration.
			8.19	8.70	0.51				MD	GN		3I									-Similar to general description, but strongly oxidized zone. Matrix shows high fracture density but core rock is solid..
			8.70	9.76	1.06																-Similar to general description.
9.76	28.93	19.17					LST	FG	LT	GY	BN		2I								Interbedded Limestone and Quartz-Muscovite Schist; mixed intervals of fine-grained, grey silicified limestone and banded, weakly sericite altered, weakly calcareous muscovite schist (foliated at ~50° to core axis).
							SCH		LT	GN	FO			SER	3I						Low veining density, generally calcite veinlets (<0.5cm) along foliation.
									LT	GY				CHL	1I						No significant sulphides noted.
			9.76	10.03	0.27		LST		LT	GY											Competent core rock with minor fracturing, dominantly at ~60° to core axis and along foliation of schist unit. Surfaces are clean and rarely coated with fine gouge.
			10.03	10.42	0.39		SCH	FG	MD	GY			2I	SER	1I			Li	0.30		-Dark grey, fine grained calcareous schist, foliated at ~60° to core axis. Limonite seen on fracture surfaces.
			10.42	11.27	0.85		LST														-Similar to general description, massive limestone.
			11.27	13.67	2.40		LST	FG	--	WH											-Similar to general description, ~30% schist, 70% limestone. Foliation at ~75° to core axis with moderate amounts of crenulations. Schist bands have varying amounts of biotite. No significant sulphides noted.
							SCH	FG	MD	GN	BN							Bi	20.00		
			13.67	16.55	2.88		LST				BX										-Similar to general description. Massive limestone with occasional bands with brecciated textures. No significant sulphides.
			16.55	17.82	1.27		LST	FG	--	WH											-Similar to 11.27-13.67- interbedded limestone and muscovite-biotite schist (foliated at ~60° to core axis) with varying biotite content.
							SCH	FG	MD	GN	BN										
			17.82	20.15	2.33		LST														-Similar to general description - massive to fine grained, weakly silicified limestone.

# 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. (%)		
			20.15	25.83	5.68		SCH	MG	LT	GN	FO		2I	SER	3I	0.20					-Calcareous, moderately sericite altered quartz-muscovite schist. Pale green matrix with foliation at ~60-65° to core axis, occasional bands of grey limestone (<5cm). Trace amounts of pyrite, occurring as disseminated grains in localized zones.
			25.83	28.93	3.10		LST														-Similar to general description. Several quartz +/- carbonate veins present (<3cm) at ~50° to core axis. One small clot of pyrite noted (<1cm across), associated with quartz vein.
28.93	42.15	13.22					SCH		LT	GN	FO			SER	4I						Quartz-Muscovite Schist; Pale grey green, strongly sericite altered quartz-muscovite schist (possible fault zone?). Patchy foliation at ~50° to core axis and weakly calcareous. Zones of massive to fine grained limestone also present. Sharp contacts at ~30° to core axis.
														CHL	2I		0.30				Low veining density. Calcite veinlets (<1cm) and patches present.
																					Trace-minor pyrite, occurring as fine disseminated grains in localized zones.
			28.93	30.43	1.50									SER	3I					X	Soft but fairly competent core rock with fracturing at ~50° to core axis.
			30.43	32.96	2.53		SCH							CHL	2I					X	-Interbedded fine grained limestone and muscovite schist, strongly calcareous matrix.
			32.96	33.53	0.57		LST		LT	GY		2I				--					-Similar to general description.
			33.53	36.52	2.99		SCH														-Band of grey massive to fine grained, weakly silicified limestone. Slight irregular contacts at ~60° and ~40° to core axis. No significant sulphides.
			36.52	39.73	3.21		LST		LT	GY		2I				--					-Similar to general description.
			39.73	42.15	2.42		SCH				FO			SER	3I						-Massive to fine grained, weakly silicified limestone. Sharp contacts at ~50° to core axis. No significant sulphides.
42.15	47.69	5.54					LST		LT	GY	BX		3I	SER	1I						-Similar to general description, with decreased sericite alteration and more strongly foliated at ~50° to core axis. Weak-moderately calcareous matrix.
																					Limestone; Light-medium grey, weak-moderately silicified limestone. Appears to be weak-moderately brecciated and healed.
																	--				Low-moderate vein density with mostly narrow white veinlets (<0.5cm) at ~40-50° to core axis - calcite +/- quartz.
			42.15	46.15	4.00																No significant sulphides noted.
			46.15	46.93	0.78		LST		MD	GY	FO										Moderately hard and competent core rock with minor fracturing at ~50° to core axis.
			46.93	47.69	0.76		SCH		MD	GN	PO										-Similar to general description - massive limestone.
47.69	55.73	8.04					LST		LT	GY	BX		3I								-Interval of dark grey, fine grained limestone and strongly chlorite/sericite altered micaceous schist. No significant sulphides noted. Weak foliation at ~50° to core axis.
																					-Similar to general description.
																	0.30	Po	1.00		Brecciated Limestone; Similar to 42.15-47.69m - grey, moderately silicified limestone. Moderate-strongly brecciated, healed with irregular narrow carbonate veinlets.
																					Difficult to determine veining density, but narrow white quartz +/- carbonate veinlets noted (<1cm), often blocky and discontinuous.
			47.69	48.31	0.62																Several localized bands of massive sulphides (<70cm), otherwise trace amounts of fine disseminated pyrite throughout the remainder of the interval.
			48.31	49.67	1.36									CLY	3I	0.50					Blocky core rock with fracturing commonly at ~50-60° to core axis.
			49.67	51.96	2.29									SER	2I						-Similar to general description.
			51.96	52.77	0.81		VEN			BR	MA						60.00	Po	20.00		-Strongly brecciated, clay altered zone. Foliation at ~60-65° to core axis. Trace disseminated pyrite noted.
																					-Similar to general description, but with blocky, highly fractured core rock.
																					-"Vein" - band of massive sulphides hosted in strongly silicified limestone. Contacts at ~75° to core axis. Dominantly pyrite with pyrrhotite bands, increasing pyrrhotite moving downhole. Vuggy pyrite. Trace chalcopyrite(?).

# 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. (%)		
			52.77	53.27	0.50																-Similar to general description.
			53.27	54.21	0.94	VEN				BR	MA						40.00	Po	20.00	X	-"Vein" - similar to 51.96-52.77m. Zone of vuggy pyrite (replacement?) and zone of massive sulphides, dominantly pyrrhotite. "Foliation" (?) at ~45° to core axis. Host rock may be a schist band(?).
			54.21	55.72	1.51																-Similar to general description.
55.72	71.10	15.38				LST			LT	GY			2I	SER	2I						Limestone; Similar to 42.15-47.69m. Light grey/pale green, fine grained , weakly silicified and sericite altered limestone. Minor zones that appear to be weakly brecciated but healed.
																	--	--			Low vein density, with narrow calcite veinlets (<0.5cm) at ~45-50° to core axis.
																					No significant sulphides noted.
			55.72	61.71	5.99																Moderately hard but competent core rock, minor fracturing at ~40-50° to core axis.
			61.71	64.31	2.60									SER	3I						-Similar to general description, with zones of brecciation in possible quartz +/- carbonate veinlets (<1cm).
			64.31	65.36	1.05	VEN				BR	MA					5.00	Po	65.00			-Similar to general description, with increased sericite alteration. Increased fracturing/veinlets, oriented at ~45° to core axis. No significant sulphides.
			65.36	68.35	2.99				--	WH											-"Vein" - band of massive sulphides hosted in strongly silicified band. Contacts at ~50° and ~70° to core axis.
			68.35	68.63	0.28				LT	GN				SER	4I						-Similar to general description - massive to fine grained limestone.
			68.63	71.10	2.47				LT	GN				SER	2I						-Interval of strongly sericite altered/gougey zone, oriented at ~55° to core axis.
														CHL	3I						-Similar to general description, with moderate foliation with chlorite wisps at ~40° to core axis.
71.10	104.17	33.07				SCH	FG		MD	BN	FO			SER	2I						Quartz-Muscovite-Biotite Schist; Moderate-strongly foliated quartz-muscovite-biotite schist. Foliation at ~65° to core axis. Moderate sericite and chlorite altered matrix. Black specks (<0.2cm) noted throughout matrix (biotite?) and clots of white calcite (<0.5cm).
														CHL	2I						Moderate-high vein density, generally white calcite veinlets (<1cm) along foliation planes at ~50-60° to core axis.
																0.50	Po	0.70			Trace pyrite throughout interval with one massive sulphide band (~60cm) at upper contact. Otherwise sulphides occur as fine disseminated grains.
			71.10	71.72	0.62	VEN				BR	MA					5.00	Po	70.00			Moderately hard and competent core rock, fracturing generally along foliation planes. Several small, strongly clay/gouge altered zones present (<1m).
			71.72	74.39	2.67									SER	3I	10.00					-"Vein" - band of semi-massive to massive sulphides. Contacts at ~40° and ~50° to core axis. Dominantly pyrrhotite with scattered pyrite veinlets (<0.5cm).
			74.39	77.02	2.63																-Similar to general description. Blocky core rock likely due to low angle (<10° to core axis) calcite veinlet, becoming more solid moving away from veinlet. Pyrite is carried in present, carried in calcite veinlet as well as sulphide only veinlets.
			77.02	78.08	1.06				LT	GN	BX			SER	3I						-Similar to general description. Speckled and moderate foliated matrix at ~50° to core axis. Black specks are biotite "books" (<0.3cm), No significant sulphides noted.
			78.08	87.28	9.20					GY	FO										-Similar to general description with more intense sericite and chlorite altered matrix. Interval has mixed/brecciated appearance. Granular gouge at ~60° to core axis.
			87.28	88.44	1.16				LT	GY	BX			SER	3I						-Similar to general description - moderate-strongly foliated at ~40-60° to core axis. Increased calcite clots, elongated along foliation planes (<0.7cm). No significant sulphides.
			88.44	89.33	0.89																-Similar to 77.02-78.08m 0 more intensely sericite altered mixed/brecciated interval. Bands of granular gouge (<3cm) present at ~55° to core axis. At 87.73-88.07m, band of white massive limestone, carrying trace pyrite. Contact at ~50° to core axis.
			89.33	89.98	0.65									SER	3I						-Similar to general description.
																					-Band of stronger clay/sericite alteration. Granular gouge at ~70° to core axis. Appears to be associated with quartz veining structures.

# 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. (%)			
														CLY	2I							-Similar to general description. Strongly foliated at ~60° to core axis. Discontinuous quartz +/- carbonate veinlets common.
			89.98	92.98	3.00																	-Interval with increased sericite alteration and one band of coarse granular gouge at ~65° to core axis. Crenulated schist matrix.
			92.98	93.48	0.50					GN				SER	3I							
														CHL	2I					X		-Similar to general description.
			93.48	99.22	5.74																	-Felsic dyke - quartz-feldspar porphyritic unit, cross-cut by quartz vein. Contacts at ~65-70° to core axis. Trace-minor sulphides.
			99.22	99.72	0.50	FEL				GN	PO		3I	SER	3I	0.30		Po	1.00			-Similar to general description.
			99.72	103.63	3.91																	-"Contact zone" with increased sulphide bands. Crenulated matrix.
			103.63	104.17	0.54								2I	SER	2I	0.50						
104.17	114.85	10.68				FEL			LT	GY	PO			SER	1I							Felsic Dyke; Speckled grey quartz-feldspar porphyritic felsic dyke. Very weakly foliated at ~55° to core axis. Matrix is weakly sericite and chlorite altered.
									MD	GY				CHL	1I							Low-moderate vein density, often narrow white calcite veinlets (<0.5cm) with pale green envelopes.
																0.20						Trace pyrite noted, occurring in sulphide veinlets (<0.2cm) and disseminated grains.
																						Competent core rock, minor fracturing at ~60° to core axis.
			104.17	105.11	0.94				LT	GN			2I	SER	3I							-Contact zone - with one quartz vein (~5cm) and increased sericite alteration and weakly bleached matrix.
			105.11	108.54	3.43									CHL	2I							-Similar to general description with occasional dark green bands (chlorite?)
																						-Similar to general description. Slightly bleached matrix with quartz vein (~1cm) oriented at ~60° to core axis.
			108.54	109.99	1.45								2I	SER	2I							-Similar to general description.
			109.99	112.78	2.79																	
			112.78	113.01	0.23	SCH			DK	GY						0.20						-Band of dark grey, moderately foliated schists, oriented at ~60° to core axis. Trace pyrite.
			113.01	113.71	0.70									CHL	2I	0.50						-Similar to general description. Pyrite blebs noted in matrix.
			113.71	114.85	1.14				LT	GN				SER	3I							-Contact zone - increased sericite alteration. Lower contact at ~50° to core axis.
114.85	119.44	4.59				LST				GY												Interbedded Quartz-Muscovite-Biotite Schist and Limestone; moderate foliated medium brown quartz-muscovite-biotite schist and grey limestone. Foliations at ~70° to core axis.
						SCH			DK	GY	FO			SER	1I							Biotite flecks noted in lighter coloured bands
									MD	GN				CHL	1I							Low vein density, dominantly narrow calcite veinlets (<0.2cm) at ~30° and ~70° to core axis.
																0.10						Trace pyrite, fine disseminated grains noted and rare discontinuous veinlets.
																						Competent core rock with fracturing along foliation planes.
			114.85	116.93	2.08				MD	GN				CHL	3I							-Similar to general description, but matrix has green colouring, indicative of increased chlorite alteration - contact zone(?).
			116.93	118.78	1.85																	-Similar to general description.
			118.78	119.44	0.66				MD	GN			2I									-Similar to general description with slight increase in silicification.
119.44	124.11	4.67				FEL			MD	GY	PO			CHL	2I							Felsic Dyke; Similar to 104.17-114.85m. Speckled green-grey quartz-feldspar porphyritic felsic dyke. Moderate strongly foliated at ~60° to core axis with chlorite wisps. Moderately chlorite altered matrix with sub rounded quartz eyes (<0.5cm).
																0.10						Low vein density, generally narrow white calcite veinlets (<0.5cm) at ~30° to core axis.
																						Rare-trace disseminated pyrite grains, occasionally in narrow veinlets.
																						Competent core rock with minor fracturing at ~70° to core axis.
			119.44	120.13	0.69									SER	2I							-Slightly bleached zone - increased sericite. Associated with quartz vein, oriented at ~50° to core axis.
			120.13	122.46	2.33																	-Similar to general description.

# 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. (%)		
			122.46	123.61	1.15								2I	CHL	3I	0.70					-Similar to general description with increased silicification and amount of quartz eyes in matrix. Pyrite carried in quartz veinlets (<1cm).
			123.61	124.11	0.50								3I								-Zone of silica flooding, almost texturally destructive.
124.11	142.94	18.83					FEL		MD	GN	PO			SER	2I						Quartz-Muscovite-Biotite Schist intruded by Felsic Dyke; Strongly foliated, medium-dark brown quartz-muscovite-biotite schist, foliated at ~70° to core axis, intruded by quartz-feldspar porphyry dyke, generally at ~40-50° to core axis. Weak-moderate chlorite and sericite alteration overall, increasing moving downhole.
							SCH		DK	BN	FO			CHL	2I			Bi	20.00		Low-moderate vein density with dominantly narrow white calcite veinlets (<0.5cm) and larger grey quartz veins (up to ~35cm). Generally oriented at ~30-40° to core axis.
									MD	GN						0.50					Trace sulphides, dominantly pyrite. Disseminated grains in schist and narrow veinlets in felsic dyke.
																					Fairly competent core rock with fractures mostly occurring along foliations in schist unit. Several bands (<10cm) of strong sericite/clay/gouge zones.
			124.11	125.56	1.45		SCH											BI	25.00		-Similar to general description with little to no chlorite alteration. Higher biotite content. No significant sulphides noted.
			125.56	126.37	0.81		FEL						2I	SER	3I						-Similar to general description - slightly silicified quartz-feldspar porphyry dyke. Sharp contacts at ~40° and ~70° to core axis.
			126.37	127.22	0.85		SCH											BI	25.00		-Similar to 124.11-125.56m, strongly foliated mica schist with high biotite content.
			127.22	127.75	0.53		FEL							SER	3I	0.50					-Similar to general description - felsic dyke with slight increase in sericite alteration. Contacts at ~60° to core axis. Rare sulphide clots (<0.5cm).
			127.75	128.29	0.54		SCH						3I								-Similar to general description - micaceous schist with slight increase in silicification.
			128.29	129.84	1.55		FEL						4I								-Moderate-strongly silicified quartz-feldspar porphyry dyke. Contacts at ~45° to core axis. Increased grey quartz veins (up to 1cm) at ~60° to core axis.
			129.84	131.10	1.26		SCH		MD	GN				CHL	3I						-Moderate-strongly foliated schist at ~70° to core axis. Medium green, chlorite altered matrix. Increased grey-white chlorite clots. No significant sulphides.
			131.10	131.34	0.24		SCH							SER	5I						-Band of strongly sericite altered schist. Coarse granular gouge at ~45° to core axis - fault zone(?).
			131.34	134.61	3.27		FEL		LT	GN						0.70					-Similar to general description - weakly sericite altered quartz-feldspar porphyry dyke. Contact at ~60° to core axis. Pyrite veinlets noted throughout (<0.5cm). Solid core rock but fractured/blocky approximate 40 cm to lower contact.
			134.61	136.65	2.04		SCH		MD	GN				CHL	3I						-Similar to 129.84-131.10m - chlorite altered schists. Foliation at ~60° to core axis.
			136.65	139.21	2.56		FEL		LT	GN				SER	3I	0.50					-Similar to general description - weakly sericite altered quartz-feldspar porphyry dyke. Contact at ~70° to core axis. Trace pyrite.
			139.21	139.92	0.71		VEN						5I			1.00					-Quartz vein with sharp contacts at ~25° and ~60° to core axis. High muscovite content in host rock. Pyrite noted along contacts.
			139.92	142.94	3.02		SCH														Similar to general description - micaceous schist.
142.94	179.24	36.30					FEL	MG	MD	GY	PO		2I	CHL	1I						Felsic Dyke(?); Light-medium green-grey quartz-feldspar porphyry. Varying intensity of chlorite alteration but pervasively silicified.
									MD	GN							0.50	Po	0.20		Low-moderate vein density with quartz +/- carbonate veinlets/veins (up to 2cm) at ~55° to core axis.
																					Trace sulphides, finely disseminated or in narrow veinlets (<0.1cm)
																					Hard competent core rock with rare fractures at ~65° to core axis.
			142.94	146.34	3.40					WH	MA		3I	CHL	2I						-Similar to general description - but bleached matrix with dark green narrow chlorite veinlets (<0.1cm). Weakly foliated at ~50° to core axis. Two bands of strongly chlorite altered schist bands at 143.65-144.20m and 144.56-144.85m. Contacts and foliation at ~50° to core axis.
			146.34	148.03	1.69				MD	GN				CHL	3I						-Similar to general description with slight increase in chlorite alteration.
			148.03	149.70	1.67				LT	GY			2I								-Similar to general description with patchy zones of strong silicification. Quartz eyes (<0.7cm) common.
			149.70	150.36	0.66				LT	GN				CHL	2I						-Similar to general description - interval of increased chlorite altered matrix.

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. (%)		
			150.36	153.24	2.88				MD	GY			3I								-Similar to general description - slightly increased silicification of matrix.
			153.24	153.61	0.37				LT	GN				SER	3I	0.70					-Similar to general description - increased sericite alteration, associated to grey quartz vein at ~55° to core axis. Weakly calcareous matrix. Narrow pyrite veinlets noted.
			153.61	155.71	2.10				MD	GY											-Similar to general description.
			155.71	157.21	1.50				LT	GN				SER	3I	1.00			X		-Similar to general description - minor increase in sericite - envelopes to quartz +/- carbonate vein zone at 156.55-157.02m, oriented at ~40° to core axis. Foliation at ~60° to core axis. Vein zone has mixed/brecciated textures and has strong chlorite altered matrix. Slight increase in pyrite (in veinlets, <0.2cm).
			157.21	158.91	1.70				LT	GY				CHL	2I						-Similar to general description.
			158.91	162.34	3.43					WH			3I	CHL	3I	1.00					-Similar to 142.94-146.34m. Bleached and moderate silicified matrix with dark green wisps and specks throughout (chlorite?). Increased veining density, generally quartz-carbonate veinlets (<1cm) with dark green envelopes (<0.2cm), oriented at ~35° to core axis. Sulphides carried in veining structures.
			162.34	163.80	1.46		SCH		MD	GN	FO			SER	3I						-Interval of strongly foliated and chlorite/sericite altered micaceous schist. Foliation at ~50° to core axis. Weakly calcareous matrix. Blocky core, fractures along foliation planes.
			163.80	165.44	1.64					WH			3I	CHL	3I						
			165.44	165.96	0.52		SCH		MD	GN	FO			CHL	3I	0.30					-Similar to 158.91-162.34m - strongly silicified matrix. No significant sulphides.
			165.96	167.25	1.29				MD	GY			3I								-Chlorite altered, foliated schist with quartz vein (~2.5cm) at ~45° to core axis. Trace pyrite noted in quartz vein.
			167.25	168.32	1.07		SCH		LT	GN				SER	3I						-Similar to general description - slight increase in silicification.
			168.32	171.73	3.41				LT	GY			3I	CHL	2I	0.30					-Quartz-muscovite-biotite schist, foliation at ~40° to core axis. Contacts at ~50° to core axis. No significant sulphides.
			171.73	174.63	2.90				MD	GY						0.20			X		-Similar to general description - slight increase in silicification. Weak-moderate foliation noted at ~50° to core axis.
			174.63	175.44	0.81				MD	GN				SER	3I	0.50					-Similar to general description - moderate foliation at ~50° to core axis. Rare veinlet with weak alteration envelopes.
			175.44	176.62	1.18				MD	GY											-Similar to general description - sericite alteration envelop to quartz +/- carbonate vein at 174.87-175.99m, oriented at ~35° to core axis. Pyrite carried at vein contact.
			176.62	179.24	2.62				LT	GY			3I			0.10					-Similar to general description - weak foliation at ~35° to core axis. No significant sulphides.
																					-Similar to general description - increased silicification gives matrix a bleached appearance. Weak foliation is defined by dark green (chlorite?) wisps at ~65° to core axis. Trace sulphides seen on fracture surfaces.
179.24	202.69	23.45					SCH	MG	MD	BN	FO		2I	SER	1I						Quartz-Muscovite-Biotite Schist; Medium-dark brown and grey, strongly foliated quartz-muscovite-biotite schist. Foliation at ~65° to core axis. Patches with varying biotite content and weak-moderate silicification of matrix.
									MD	GY						0.10					Low veining density. Rare-trace amounts of quartz +/- carbonate veinlets (<0.5cm) along foliation.
			179.24	187.47	8.23														X		Rare sulphides - finely disseminated pyrite grains scattered in the matrix.
			187.47	189.20	1.73				LT	GY			3I								Fairly competent core rock with minor fracturing along foliation at ~60° to core axis.
			189.20	190.49	1.29		FG		MD	GN				CHL	3I						-Similar to general description.
			190.49	195.33	4.84				MD	GY											-Similar to general description - slightly bleached matrix with more prominent biotite grains. Foliation at ~70° to core axis.
			195.33	195.55	0.22								4I								-Medium green, fine grained, moderate chlorite altered schist. No foliation noted.
																					-Similar to 187.47-189.20m. Speckled matrix with biotite books (<0.3cm). Moderate-strongly foliated at ~60° to core axis.
																					-Mixed and brecciated quartz vein, weakly oriented at ~30° to core axis. No significant sulphides.

## 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. (%)		
			195.55	198.18	2.63				LT	GY											-Similar to general description. Weak-moderately foliated at ~45° to core axis. Low angle veinlets or crenulations noted.
			198.18	200.51	2.33																-Similar to 187.47-189.20m. Speckled matrix, biotite books (<0.7cm). Weak foliation at ~55° to core axis.
			200.51	201.46	0.95			FG	MD	GY											-Strongly foliated and weakly crenulated schist, foliated at ~55° to core axis.
			201.46	202.21	0.75		FEL						4I								-Strongly silicified felsic dyke. Contacts at ~55° to core axis. Narrow veinlets at ~50° to core axis.
			202.21	202.69	0.48			FG					3I								-Similar to general description - strongly foliated matrix with grey-white calcite blebs along foliation at ~55° to core axis.
202.69	210.11	7.42					FEL		MD	GY	PO		2I	CHL	2I						Felsic Dyke; Medium green and grey, weakly foliated quartz-feldspar porphyritic unit. Foliation at ~60° to core axis. Moderate silicified and chlorite altered matrix. Quartz eyes noted (<0.7cm, sub rounded).
																0.20					Low vein density, quartz +/-carbonate veinlet (<0.7cm) at ~25° to core axis.
																					Trace-minor sulphides, dominantly pyrite occurring in fine veinlets (<0.2cm), Competent core rock, minor fracturing at ~65° to core axis.
			202.69	205.11	2.42																-Similar to general description.
			205.11	205.58	0.47		SCH		MD	BN				SER	2I						-Medium brown, strongly foliated muscovite schist. Foliation at ~65° to core axis. No significant sulphides.
			205.58	210.11	4.53																-Similar to general description.
210.11	217.36	7.25					FEL		MD	GN	PO		3I	CHL	3I						Felsic Dyke; Moderately silicified and chlorite altered quartz-feldspar porphyritic dyke. Patchy zones of varying intensity of alteration with gradational "contacts".
									DK	GN				SER	2I						Low-moderate vein density, dominantly quartz +/- carbonate veinlets (<1cm) at ~45° to core axis.
																0.30					Trace-minor sulphides, generally occurring as narrow veinlets (<0.5cm) and disseminated grains in localized clusters.
																					Competent core rock with minor fracturing at ~60° to core axis. One zone of coarse granular gouge noted (approximately 30cm wide).
			210.10	210.76	0.66																-Similar to general description.
			210.76	210.84	0.08		VEN			WH			4I			0.70					-Quartz-carbonate vein, carrying blebby pyrite, oriented at ~75° to core axis.
			210.84	212.16	1.32					GN			4I	SER	3I	0.50					-Moderate-strongly silicified interval, almost texturally destructive with white-grey quartz vein at 211.59-211.67m at ~50° to core axis.
			212.16	214.83	2.67				DK	GN				CHL	4I	1.00					-Similar to general description with increased chlorite alteration of matrix with patchy mixed quartz vein zones (up to ~20cm wide). Minor amounts of sulphides noted.
			214.83	215.16	0.33		SCH		LT	GY				SER	4I						-Strongly sericite/clay altered interval, possibly hosted in micaceous schist. Fine-coarse granular gouge at ~65° to core axis. Rare sulphides.
			215.16	216.47	1.31		SCH		MD	BN	FO			CHL	3I						-Moderately foliated and crenulated muscovite-biotite schist. Foliation at ~65° to core axis. Slightly blocky core rock with rare sulphides.
			216.47	217.36	0.89																-Similar to general description.
217.36	263.65	46.29					SCH		MD	BN	FO		1I	CHL	2I						Quartz-Muscovite-Biotite Schist; Moderate-strongly foliated and crenulated quartz-muscovite-biotite schist. Patchy zones of varying chlorite alteration intensity and weak pervasive silicification. Foliation at ~60-70° to core axis.
									MD	GY						0.10	Po	0.10			Low veining density, generally white calcite veinlets (<0.5cm) at ~50-55° to core axis of along foliation or crenulation bands.
																					Rare sulphides noted occurring as small blebs (<0.3cm) or carried in calcite veinlets.
																					Fairly competent core rock with minor zones of blocky core. Fracturing dominantly along foliation or veining structures.
			217.36	219.11	1.75				DK	GN				CLY	2I						-Similar to general description with slightly blocky core with minor clay content on fracture surfaces. Quartz vein at 218.82-218.86m 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. (%)		
			219.11	219.23	0.12				LT	GY				SER	4I						-Strongly sericite altered interval. Coarse granular gouge at ~75° to core axis. High muscovite content noted. No significant sulphides seen.
			219.23	222.00	2.77		FEL		LT	GN	PO		3I	SER	2I						-Light green, moderately silicified and sericite altered quartz\feldspar porphyritic felsic dyke. Matrix shows weak foliation at ~55° to core axis. Weakly gradational contacts at ~70° and ~60° to core axis. Increased grey quartz veinlets (<1cm). No significant sulphides.
			222.00	222.88	0.88				MD	GY											-Similar to general description - strongly foliated muscovite rich schist with elongated calcite clots (<0.3cm). Foliation at ~65° to core axis.
			222.88	223.24	0.36		FEL		LT	GN	PO		3I	SER	2I						-Silicified felsic dyke. Contacts at ~65° and ~70° to core axis with quartz veinlets.
			223.24	223.75	0.51				MD	GY											-Similar to general description.
			223.75	224.43	0.68		FEL		LT	GN			3I								-Similar to 222.88-223.24m. Silicified felsic dyke. Contacts at ~75° to core axis. Weakly foliated matrix at ~65° to core axis.
			224.43	226.51	2.08			FG	MD	BN											-Similar to general description - weakly silicified, weakly foliates schist. Two silicified felsic dykes at 225.05-225.19m and 225.93-226.18m at ~60° to core axis.
			226.51	230.67	4.16				MD	BN			2I						X		-Similar to general description - high biotite content and strongly crenulated matrix. Weakly calcareous.
			230.67	232.04	1.37				LT	GY			2I	SER	2I						-Similar to general description - moderately crenulated matrix with weakly silicified and sericite altered matrix.
			232.04	235.19	3.15				MD	BN			2I								-Similar to general description - weak-moderately silicified matrix. Moderately foliated and crenulated at ~55° to core axis. Patchy zones of slightly stronger silicification.
			235.19	236.23	1.04				LT	GN	FO			SER	2I		0.10				-Similar to general description. Slightly bleached, moderately foliated and crenulated at ~60° to core axis. Trace sulphides (finely disseminated grains).
			236.23	237.74	1.51				MD	GN											-Similar to general description. Foliation at ~60° to core axis.
			237.74	238.88	1.14				LT	GN				SER	3I						-Similar to general description - strongly foliated at ~50° to core axis. Moderately sericite altered and calcareous matrix.
			238.88	244.36	5.48			FG	MD	GY	FO		3I	SER	2I		0.20				-Similar to general description. Fine grained, moderately silicified matrix, foliated at ~65° to core axis. Trace pyrite veinlets.
			244.36	245.14	0.78			MG	LT	GN											-Bleached and weakly silicified, moderately calcareous matrix. Foliated at ~65° to core axis.
			245.14	247.81	2.67				MD	BN				CHL	2I						-Similar to general description - crenulated matrix. Foliation at ~70° to core axis. Moderate biotite content.
			247.81	249.09	1.28				LT	GN				CHL	3I						-Similar to general description - calcareous matrix, chlorite and sericite alteration present. Foliation at ~60° to core axis.
			249.09	252.03	2.94				MD	BN			2I								-Similar to general description. Foliated and crenulated matrix.
			252.03	257.87	5.84				MD	GY	FO		2I	CLY	2I						-Strongly foliated and crenulated schist with weakly bleached and silicified matrix. Foliated at ~65° to core axis. Large elongated quartz eyes (<1cm).
			257.87	261.11	3.24				LT	GY			3I								-Silicified muscovite-biotite schist. Foliation at ~75° to core axis. Calcite veinlets (<0.3cm) at ~40° to core axis.
			261.11	263.65	2.54				LT	GY			1I								-Similar to 252.03-257.87m. Decreased silicification and moderate-strongly calcareous matrix. Patchy zones of strong silica flooding (quartz veins?) at 262.02-262.20m. EOH @263.65m

## Secondary Structure Log

Hole: QB-12-02

Logger Name:

Date: September 14, 2012

2° Structure Type	From (m)	To (m)	Attitude (TCA)	Attitude (TRFE)	Count	MINERALS		DESCRIPTION	Photo
						Type	Conc. (%)		
VT	5.90	6.50	47.00		1.00				
VT	16.00	16.62	50.00						
VN	22.36	23.00	0.00		1.00			Along with foliation.	
VN	26.30	28.46	50.00	0.00	3.00			Along with foliation.	
VN	32.40	33.00	58.00	110.00	1.00				
VT	36.58	37.25	52.00	80.00	4.00				
VT	46.41	47.15	80.00		1.00				
VN	54.00	54.50	74.00	100.00	1.00				
VT	58.51	59.10	34.00		2.00				
VT	60.96	61.71	30.00		1.00				
VN	70.10	71.00	75.00	0.00	2.00				
VN	81.00	81.69	15.00	105.00	1.00				
VT	85.45	86.25	75.00	0.00	1.00			Along with foliation.	
VT	98.00	98.60	39.00	27.00	2.00				
VT	98.60	98.87	23.00	45.00	1.00				
VT	103.16	103.63	42.00		1.00				
VT	111.00	113.57	30.00	85.00	5.00				
VN	114.15	114.65	39.00	100.00	1.00				
VT	119.77	120.30	45.00	120.00	1.00				
VT	122.85	123.30	15.00	95.00	1.00				
VN	128.98	130.00	68.00	0.00	2.00			Along with foliation.	
VT	134.11	135.29	30.00	0.00	2.00			Along with foliation.	
VN	139.00	140.11	38.00	0.00	2.00			Along with foliation.	
VT	141.90	142.20	8.00	0.00	1.00				
VT	141.90	142.20	15.00	0.00	1.00			This veinlet crosses the previous veinlet.	
VT	143.89	144.35	25.00	55.00	1.00				
VT	143.89	144.35	15.00	0.00	1.00			Along with foliation.	
VT	145.01	145.84	20.00		2.00				
VT	146.45	149.00	25.00		3.00				
VT	148.85	149.10	27.00		1.00				
VT	153.88	154.63	8.00		1.00				
VT	157.00	158.17	30.00		2.00				

## Secondary Structure Log

[illegible]

## Density Log

**Hole:** QB-12-02

**Date:** September 14 2012

[illegible]

# Sample Log

Hole: QB-12-02

Date: September 14 2012

From (m)	To (m)	Interval (m)	Recovery (m)	Recovery (%)	Sample Number	Batch	Weight (kg)			Comments
0.00	0.79	0.79			N/S					Casing; no recovery.
0.79	20.14	19.35			N/S					
20.14	22.11	1.97	1.96	99.5	K191990	4	6.60			
22.11	24.38	2.27	2.27	100	K191991	4	7.30			
24.38	26.65	2.27	2.25	99.1	K191992	4	7.40			
--	--				K191993	4	0.30			Standard: CDN-ME-8
26.65	28.93	2.28	2.26	99.1	K191994	4	7.50			
28.93	30.48	1.55	1.52	98.1	K191995	4	5.00			
30.48	32.96	2.48	2.48	100	K191996	4	8.10			Strongly sericite altered schist
--	--				K191997	4	3.00			Blank
32.96	34.70	1.74	1.73	99.4	K191998	4	5.60			Strongly sericite altered schist
34.70	36.52	1.82	1.82	100	K191999	4	5.80			
36.52	46.15	9.63			N/S					
46.15	47.69	1.54	1.50	97.4	K192000	4	5.40			
47.69	49.67	1.98	1.85	93.4	L828108	4	6.60			
49.67	51.96	2.29	2.10	91.7	L828109	4	7.70			
51.96	53.61	1.65	1.62	98.2	L828110	4	6.70			Semi massive sulphides.
--	--				L828111	4	0.00			Coarse reject duplicate
53.61	54.21	0.60	0.60	100	L828112	4	2.70			Massive sulphides
54.21	55.72	1.51	1.48	98	L828113	4	5.30			
55.72	57.53	1.81	1.80	99.4	L828114	4	6.40			
57.53	59.80	2.27	2.27	100	L828115	4	8.10			
59.80	62.10	2.30	2.30	100	L828116	5	7.90			
62.10	64.36	2.26	2.24	99.1	L828117	5	7.60			
64.36	65.36	1.00	1.00	100	L828118	5	5.20			Massive sulphides
--	--				L828119	5	3.00			Blank
65.36	68.35	2.99	2.96	99	L828120	5	9.90			
68.35	71.10	2.75	2.73	99.3	L828121	5	9.20			
71.10	71.72	0.62	0.62	100	L828122	5	3.80			Massive sulphides
--	--				L828123	5	3.00			Blank
71.72	74.39	2.67	2.56	95.9	L828124	5	9.10			Sulphide veinlets
74.39	76.20	1.81	1.78	98.3	L828125	5	6.20			
76.20	85.34	9.14			N/S					
85.34	87.28	1.94	1.93	99.5	L828126	5	6.40			
87.28	88.44	1.16	1.07	92.2	L828127	5	3.70			Gouge/fault(?) zone
--	--				L828128	5	0.30			Standard: CDN-ME-8
88.44	89.98	1.54	1.54	100	L828129	5	5.40			
89.98	92.48	2.50	2.46	98.4	L828130	5	8.40			
92.48	94.49	2.01	2.00	99.5	L828131	5	6.90			
94.49	111.78	17.29			N/S	5				
111.78	112.78	1.00	1.00	100	L828132	5	3.40			
--	--				L828133	5	1.50			Quarter split duplicate
112.78	114.85	2.07	2.03	98.1	L828134	5	7.00			
114.85	115.95	1.10	1.08	98.2	L828135	5	3.70			
115.95	118.78	2.83	2.83	100	L828136	5	9.70			

## Sample Log

[illegible]

# Geotechnical Log

e:QB-12-02

Tech Name: Kristina An

Date: September 14,2012

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	0.76	0.76	0.00		0.00												Casing, no recovery.
0.76	1.52	0.76	0.76		0.00		3	2	1	4							
1.52	3.05	1.53	1.47		0.00		3	2	2	4	0.06	75	1	3	3	0	
3.05	4.57	1.52	1.52		0.39		3	3	3	3							
4.57	6.10	1.53	1.53		1.16		3	3	3	3							
6.10	7.62	1.52	1.52		0.78		3	3	3	3							
7.62	9.14	1.52	1.52		1.01		3	3	3	3							
9.14	12.19	3.05	3.05		0.97		3	3	3	3	0.1	85	1	2	2	0	
12.19	15.24	3.05	3.04		1.19		3	3	3	2	0.11	64	1	3	2	3	
15.24	18.29	3.05	3.01		1.64		3	3	3	1	0.12	62	1	2	1	0	
18.29	21.34	3.05	3.01		1.24		3	3	3	1	0.1	48	1	2	2	1	
21.34	24.38	3.04	3.04		1.76		3	3	3	1							
24.38	27.43	3.05	3.05		1.47		3	3	4	1							
27.43	30.48	3.05	3.05		1.77		3	3	3	1							
30.48	33.53	3.05	3.05		1.07		3	2	3	1	0.16	66	1	2	1	0	
33.53	36.58	3.05	3.05		1.72		3	3	3	1	0.2	65	2	3	1	0	
36.58	39.62	3.04	3.03		1.62		3	3	3	1							
39.62	42.67	3.05	3.05		1.07		3	3	3	1	0.1	64	1	2	1	1	
42.67	45.72	3.05	3.03		1.74		3	3	3	1							
45.72	48.77	3.05	3.05		1.24		1	3	3	1	0.12	50	1	2	1	0	
48.77	51.82	3.05	3.05		0.12		3	3	3	1							
51.82	54.86	3.04	3.04		1.28		0	3	3	1	0.11	63	1	3	1	0	
54.86	57.91	3.05	3.05		1.67		1	3	3	1							
57.91	60.96	3.05	3.05		1.87		3	3	3	1							
60.96	64.01	3.05	3.05		1.11		1	3	3	1							
64.01	67.06	3.05	3.02		2.00		3	3	4	1							
67.06	70.10	3.04	3.04		1.50		3	3	3	1	0.11	68	3	3	1	0	
70.10	73.15	3.05	3.05		1.35		3	3	4	1							
73.15	76.20	3.05	3.02		1.71		1	3	3	1	0.1	60	1	2	1	6	
76.20	79.25	3.05	3.04		1.24		3	3	3	1							
79.25	82.30	3.05	3.05		2.10		3	3	3	1	0.31	64	1	2	1	0	

# Geotechnical Log

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	
82.30	85.34	3.04	3.04		1.07		3	3	3	1	0.09	50	1	2	1	0	
85.34	88.39	3.05	3.05		0.50		3	3	3	1	0.11	68	1	2	1	0	
88.39	91.44	3.05	3.05		1.11		1	2	3	1	0.13	65	1	2	1	0	
91.44	94.49	3.05	3.05		1.77		1	3	3	1	0.28	74	1	2	1	0	
94.49	97.54	3.05	3.05		2.40		1	3	3	1	0.21	60	1	2	1	0	
97.54	100.58	3.04	3.04		1.82		1	3	3	1	0.16	67	1	2	1	0	
100.58	103.63	3.05	3.05		2.73		1	3	3	1							
103.63	106.68	3.05	3.05		1.62		0	3	3	1							
106.68	109.73	3.05	3.05		2.42		0	4	3	1							
109.73	112.78	3.05	3.00		2.40		0	4	3	1							
112.78	115.82	3.05	3.03		1.72		3	3	3	1							
115.82	118.87	3.05	3.05		1.68		1	3	3	1	0.2	72	1	2	1		
118.87	121.92	3.05	3.05		1.53		0	3	3	1	0.08	75	1	2	1	1	
121.92	124.97	3.05	3.05		1.73		0	3	3	1	0.11	81	1	2	1		
124.97	128.02	3.05	3.02		1.91		0	3	3	1	0.13	72	1	2	1		
128.02	131.06	3.04	3.04		1.48		1	3	4	1							
131.06	134.11	3.05	3.05		1.53		1	3	3	1							
134.11	137.16	3.05	3.05		0.47		1	3	3	1	0.11	68	1	2	1	1	
137.16	140.21	3.05	3.05		1.58		0	3	3	1							
140.21	143.26	3.05	3.05		1.40		1	3	3	1	0.07	84	1	2	1		
143.26	146.30	3.04	3.01		1.85		1	3	3	1	0.2	52	2	3	1		
146.30	149.35	3.05	2.72		2.03		0	4	4	1	0.13	88	1	2	1		
149.35	152.40	3.05	3.05		2.43		1	3	4	1							5 cm of stick-up.
152.40	155.45	3.05	3.05		2.64		1	3	4	1							
155.45	158.50	3.05	3.05		2.51		1	3	4	1	0.75	51	1	2	1		
158.50	161.54	3.04	3.01		2.46		1	3	4	1							
161.54	164.59	3.05	3.05		1.10		1	3	3	1	0.08	44	1	2	1		
164.59	167.64	3.05	3.05		1.09		1	3	4	1	0.1	66	3	3	1		
167.64	170.69	3.05	2.93		2.01		1	3	4	1							
170.69	173.43	2.74	2.74		2.40		0	3	4	1							
173.43	175.26	1.83	1.83		1.49		0	3	4	1							
175.26	178.31	3.05	3.03		2.44		0	3	4	1							
178.31	181.36	3.05	3.05		2.20		1	3	4	1	0.27	62	1	2	1	2	
181.36	184.40	3.04	3.04		2.65		0	3	3	1							



Geotechnical Log

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	
184.40	187.45	3.05	3.05		2.63		0	3	3	1							
187.45	190.50	3.05	3.05		2.33		0	3	4	1	0.22	67	1	2	1		
190.50	193.55	3.05	3.02		2.61		0	3	3	1	0.3	60	1	2	1		
193.55	196.60	3.05	3.02		2.13		1	3	4	1	0.22	54	1	2	1	1	
196.60	199.64	3.04	3.04		2.87		0	3	4	1	0.27	62	1	2	1		
199.64	202.69	3.05	3.05		2.30		1	3	3	1	0.2	60	1	2	1	2	
202.69	205.74	3.05	2.98		1.53		1	3	3	1							

Hole:QB-12-02

Date:September 14,2012

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS	Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
3	FO	80		162.07	FO	50	
10.24	FO	71		166.41	FO	62	
11.89	FO	69		168.97	FO	69	
13.59	FO	55		171.61	FO	65	
17.03	FO	59		174.28	FO	60	
19.94	FO	50		177.81	FO	64	
22.63	FO	68		181	FO	70	
26.63	FO	50		183.16	FO	62	
29.07	FO	61		186.59	FO	59	
31.95	FO	50		188.81	FO	45	
34.31	FO	61		192.22	FO	73	
36.8	FO	40		195	FO	60	
40.09	FO	70		197.48	FO	51	
43.89	FO	48		200	FO	60	
49.41	FO	50		204.36	FO	70	
54.41	FO	61		206.51	FO	51	
65.73	FO	44		209.56	FO	58	
67.9	FO	50		212.5	FO	53	
72.78	FO	55		215.47	FO	66	
74.3	FO	72		217	FO	68	
78.89	FO	60		220.29	FO	60	
81.51	FO	65		223.07	FO	60	
84	FO	60		224.53	FO	68	
86.09	FO	75		227	FO	79	
89.05	FO	58		230.17	FO	51	
91.06	FO	77		233.21	FO	65	
94.15	FO	58		236.97	FO	61	
96.68	FO	60		238.19	FO	53	
99.88	FO	59		241.39	FO	69	
101.43	FO	48		243.69	FO	60	
103.79	FO	70		246.49	FO	55	
111.1	FO	49		249	FO	72	
114	FO	41		251	FO	55	
114.46	FO	67		253.91	FO	65	
117.28	FO	74		257.14	FO	60	
119.71	FO	70		259.98	FO	78	
122.93	FO	76		262.27	FO	78	EOH at 263.65 m.
124.54	FO	70					
127	FO	71					
131.02	FO	58					
135.05	FO	62					
140.05	FO	50					
142.09	FO	89					

## PRIMARY STRUCTURE LOG

Depth (m)	1° Structure Type	Angle (TCA)	COMMENTS
144.63	FO	45	

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

# Magnetic Susceptibility Log

Hole:QB-12-02

Date: Sep-12

Depth (m)	Magnetic Susceptibility	DESCRIPTION
1.00	0.00	Rubble
2.00	0.00	Rubble
3.00	0.02	
4.00	0.03	
5.00	0.00	
6.00	0.06	
7.00	0.02	
8.00	0.02	
9.00	0.06	
10.00	0.02	
11.00	0.00	
12.00	0.04	
13.00	0.12	
14.00	0.02	
15.00	0.05	
16.00	0.00	
17.00	0.77	
18.00	0.00	
19.00	0.03	
20.00	0.00	
21.00	0.13	
22.00	0.14	
23.00	0.19	
24.00	0.13	
25.00	0.03	
26.00	0.00	
27.00	0.00	
28.00	0.08	
29.00	0.00	
30.00	0.03	
31.00	0.02	
32.00	0.00	
33.00	0.23	
34.00	0.01	
35.00	0.05	
36.00	0.00	
37.00	0.03	
38.00	0.00	
39.00	0.03	
40.00	0.02	
41.00	0.04	
42.00	0.04	
43.00	0.08	
44.00	0.06	
45.00	0.03	
46.00	0.00	
47.00	0.00	
48.00	0.05	
49.00	0.03	
50.00	0.07	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
52.00	0.11	
53.00	0.03	
54.00	6.44	
55.00	0.04	
56.00	0.03	
57.00	0.08	
58.00	0.07	
59.00	0.18	
60.00	0.08	
61.00	0.12	
62.00	0.05	
63.00	0.13	
64.00	0.03	
65.00	3.98	
66.00	0.10	
67.00	0.00	
68.00	0.44	
69.00	0.04	
70.00	0.09	
71.00	0.04	
72.00	5.06	
73.00	0.74	
74.00	0.01	
75.00	0.83	
76.00	0.30	
77.00	0.29	
78.00	0.01	
79.00	0.08	
80.00	0.33	
81.00	0.46	
82.00	0.48	
83.00	0.26	
84.00	0.01	
85.00	0.09	
86.00	0.19	
87.00	0.18	
88.00	0.00	
89.00	0.20	
90.00	0.08	
91.00	0.13	
92.00	0.17	
93.00	0.16	
94.00	0.27	
95.00	0.37	
96.00	0.38	
97.00	0.08	
98.00	0.09	
99.00	0.00	
100.00	0.13	
101.00	0.11	

## Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
51.00	0.11	
104.00	0.10	
105.00	0.00	
106.00	0.00	
107.00	0.00	
108.00	0.05	
109.00	0.01	
110.00	0.00	
111.00	0.05	
112.00	0.05	
113.00	0.11	
114.00	0.14	
115.00	0.14	
116.00	0.15	
117.00	0.28	
118.00	0.05	
119.00	0.24	
120.00	0.09	
121.00	0.10	
122.00	0.00	
123.00	0.16	
124.00	0.55	
125.00	0.04	
126.00	0.04	
127.00	0.16	
128.00	0.10	
129.00	0.04	
130.00	0.11	
131.00	0.25	
132.00	0.07	
133.00	0.00	
134.00	0.00	
135.00	0.13	
136.00	0.01	
137.00	0.09	
138.00	0.05	
139.00	0.06	
140.00	0.16	
141.00	0.29	
142.00	0.16	
143.00	0.00	
144.00	0.10	
145.00	0.00	
146.00	0.00	
147.00	0.44	
148.00	1.96	
149.00	0.11	
150.00	0.02	
151.00	0.12	
152.00	0.05	
153.00	0.07	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
102.00	0.19	
103.00	0.21	
156.00	0.03	
157.00	0.02	
158.00	0.01	
159.00	1.08	
160.00	0.00	
161.00	0.11	
162.00	0.00	
163.00	0.18	
164.00	0.02	
165.00	0.00	
166.00	0.12	
167.00	0.00	
168.00	0.01	
169.00	0.14	
170.00	0.07	
171.00	0.10	
172.00	0.20	
173.00	0.10	
174.00	0.03	
175.00	0.04	
176.00	0.11	
177.00	0.33	
178.00	2.41	
179.00	0.64	
180.00	0.12	
181.00	0.25	
182.00	0.18	
183.00	0.00	
184.00	0.06	
185.00	0.04	
186.00	0.15	
187.00	0.55	
188.00	0.04	
189.00	0.00	
190.00	0.20	
191.00	0.33	
192.00	0.09	
193.00	0.01	
194.00	0.01	
195.00	0.25	
196.00	0.03	
197.00	0.12	
198.00	0.10	
199.00	0.34	
200.00	0.22	
201.00	0.30	
202.00	0.02	
203.00	0.03	
204.00	0.00	

Magnetic Susceptibility Log

Depth (m)	Magnetic Susceptibility	DESCRIPTION
154.00	0.01	
155.00	0.05	
208.00	0.00	

Depth (m)	Magnetic Susceptibility	DESCRIPTION
205.00	0.03	
206.00	0.00	
207.00	0.00	

## Box Log

**Hole: QB-12-02**

**Date: September 14, 2012**

Box #	From (m)	To (m)
1	0.76	4.57
2	4.57	8.50
3	8.50	12.35
4	12.35	16.17
5	16.17	20.45
6	20.45	24.49
7	24.49	28.46
8	28.46	32.40
9	32.40	36.40
10	36.40	40.60
11	40.60	44.95
12	44.95	49.11
13	49.11	53.27
14	53.27	57.53
15	57.53	61.71
16	61.71	65.93
17	65.93	70.31
18	70.31	74.51
19	74.51	78.82
20	78.82	83.11
21	83.11	87.35
22	87.35	91.53
23	91.53	95.97
24	95.97	100.33
25	100.33	104.67
26	104.67	108.95
27	108.95	112.78
28	112.78	116.79
29	116.79	120.80
30	120.80	124.79
31	124.79	128.98
32	128.98	132.89
33	132.89	136.92
34	136.92	140.93
35	140.93	145.01
36	145.01	149.59
37	149.59	153.88
38	153.88	158.17
39	158.17	162.52
40	162.52	166.84
41	166.84	171.30
42	171.30	175.51
43	175.51	179.83
44	179.83	184.06
45	184.06	188.26
46	188.26	192.51

[illegible]