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zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	438.00	26/03/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545797.6	682950.8			Reflex APS		30/03/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.30	183.70		-69.20	Chibougamau Diamond Drilling		07/04/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Mike Roberts		Mike Roberts		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Thunder Bay Office			☑	☑	☑

Core Size (1)	NQ	396	Casing Pulled	Casing (1)	42.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
To test continuity of graphite mineralization between holes Z12-4F4 and Z12-4F9 and determine location of south contact.	First intersected graphite rich breccia at 86.48m. Last intersection of graphite rich breccia at 409.79m. The assays from 49.00m to 409.79m averaged 5.06% Cg over 360.79m; within this intersection a higher grade graphite zone from 49.00m to 209.19m averaged 6.86% Cg over 160.19m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°) Original	Grid Azimuth (°) Final	Astro. Azimuth (°) Original	Astro. Azimuth (°) Final	Dip (°) Original	Dip (°) Final	Use Test	Survey Method	Mag. Field (nT)	Comments
66.00			194.4	185.4	-67.7	-67.7	☑	Reflex EZ	56087	
117.00			195.1	186.1	-67.9	-67.9	☑	Reflex EZ	56586	
171.00			194.9	185.9	-67.9	-67.9	☑	Reflex EZ	56358	
222.00			291.1	186	-68	-68	☐	Reflex EZ	2565	Bad test
225.00			196.2	187.2	-68.2	-68.2	☑	Reflex EZ	56326	
273.00			196.4	187.4	-68.1	-68.1	☑	Reflex EZ	56598	
324.00			195.7	186.7	-68	-68	☑	Reflex EZ	56294	
375.00			196.7	187.7	-68.2	-68.2	☑	Reflex EZ	56432	
426.00			196.9	187.9	-67.6	-67.6	☑	Reflex EZ	56375	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
438.00			197	188	-67.5	-67.5	☑	Reflex EZ	56102	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	41.00	**OB Overburden** 0.00 to 40.00m. Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles and glacially rounded rocks and boulders. 40.00 to 41.00m. Rounded rocks of sedimentary and igneous intrusive basement from 1cm to 5cm in diameter.							
41.00	46.85	**SED Sediment** Aphanitic to very fine grained limestone. Unit grades to brachial sediments at ~45m. Light tan in colour. Moderately hard to hard. Unit is broken and blocky with numerous grounded pieces of core as the drilling progresses down hole into a more stable footing. Lower contact is faulted at 76 dca with unknown missing gouge.	L012201	45.00	46.00	1.00	0.1	0.27	
			L012202	46.00	46.85	0.85	0.11	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
46.85	72.71	**SYENOP Syenite with Graphitic Overprinting** Dark orange to very dark grey, massive igneous rock with gneissic banding. Unit is overprinted with weak to moderate graphite, mainly as fracture filling veinlets. Unit is massive with some banding and crackling suggesting a foliation. Local minor fracturing and faulting with malachite fault gouge. Very hard. 46.85 to 51m. Unit is very dark grey with near surface water weathering of rock. Unit is virtually pockmarked with water erosion. 50m to 56 m. 5% calcite or ankerite stringers and veinlets. Stringers are very hard and react poorly to HCL. Buff with pale pink tinge. 52.25 2 cm folded calcite ankerite vein cross cutting at 32 dca and fold axis at 149 dca 53m to 81 m. Unit has minor brecciated and crackled pockets ~ 5 to 10cm in length. More Graphite in these areas. 67.8 to 72m. Unit exhibits numerous fractures and minor faults with malachite and calcite in 1 to 3mm fault gouges. Unit is broken and blocky here. This may be a result of contact with next unit below. 69.90m. 2 mm very light green soft fault gouge at 31 dca. 71.50m. 1mm very light green and soft fault gouge at 21 and 131 dca. 72.45 to 72.71 Possible dyke in contact with lower unit. Upper and lower contact of dyke has been ground away. Orange and fine grained. May be a igneous piece of host gneiss but lack of crackling and banding suggest a younger intrusive than host rock.	L012203	46.85	48.00	1.15	0.15	0.18	
			L012204	48.00	49.00	1.00	0.12	0.28	
			L012206	49.00	50.00	1.00	5.03	0.61	
			L012207	50.00	51.00	1.00	13.75	0.07	
			L012208	51.00	52.00	1.00	6.07	0.08	
			L012209	52.00	53.00	1.00	3.81	0.06	
			L012210	53.00	54.00	1.00	5.81	0.04	
			L012211	53.00	54.00	1.00	5.91	0.04	
			L012212	54.00	55.00	1.00	6.15	0.04	
			L012213	55.00	56.00	1.00	8.95	0.03	
			L012214	56.00	57.00	1.00	6.33	0.03	
			L012216	57.00	58.00	1.00	7.64	0.03	
			L012217	58.00	59.00	1.00	0.88	0.03	
			L012218	59.00	60.00	1.00	2.63	0.03	
			L012219	60.00	61.00	1.00	3.23	0.03	
			L012220	61.00	62.00	1.00	6.35	0.03	
			L012221	62.00	63.00	1.00	1.93	0.03	
			L012222	63.00	64.00	1.00	3.14	0.03	
			L012223	64.00	65.00	1.00	5.04	0.005	
			L012224	65.00	66.00	1.00	7.91	0.005	
			L012226	66.00	67.00	1.00	7.34	0.01	
			L012227	67.00	68.00	1.00	7.52	0.005	
			L012228	68.00	69.00	1.00	7.17	0.005	
			L012229	69.00	70.00	1.00	6.38	0.03	
			L012230	70.00	71.00	1.00	0.77	0.03	
			L012231	70.00	71.00	1.00	0.79	0.03	
			L012232	71.00	72.00	1.00	2.42	0.02	
			L012233	72.00	72.71	0.71	3.39	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
72.71	86.48	**SYENOP Syenite with Graphitic Overprinting** Very dark orange and black. Very hard. Massive gneiss with 30-40% interbedded breccia. Weak to moderate graphite overprinting and/or graphite replacement of matrix material. This unit is even more transitional than previous. 86.43 to 86.48 5cm Light grey fine grained dyke as lower contact at 55 dca. Graphite overprinting makes identification difficult. Lower contact at 55 dca.	L012234	72.71	74.00	1.29	14.05	0.04	
			L012236	74.00	75.00	1.00	9.26	0.03	2.52
			L012237	75.00	76.00	1.00	10.25	0.04	2.55
			L012238	76.00	77.00	1.00	6.7	0.03	2.58
			L012239	77.00	78.00	1.00	6.77	0.07	2.6
			L012240	78.00	79.00	1.00	5.97	0.04	
			L012241	79.00	80.00	1.00	9.22	0.05	
			L012242	80.00	81.00	1.00	6.78	0.07	
			L012243	81.00	82.00	1.00	8.07	0.05	
			L012244	82.00	83.00	1.00	9.04	0.06	
			L012246	83.00	84.00	1.00	8.13	0.05	
			L012247	84.00	85.00	1.00	7.4	0.05	
			L012248	85.00	86.00	1.00	11.8	0.04	
			L012249	86.00	86.48	0.48	10.7	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
86.48	- 106.00	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host. Very strong graphite alteration throughout. 93.21 TO 93.51 Fault gouge. Lower contact faulted at 45 dca.	L012251	86.48	87.00	0.52	4.58	0.04	
			L012250	86.48	87.00	0.52	4.54	0.04	
			L012252	87.00	88.00	1.00	13.05	0.05	
			L012253	88.00	89.00	1.00	4.19	0.08	
			L012254	89.00	90.00	1.00	7.73	0.06	
			L012256	90.00	91.00	1.00	10.75	0.04	
			L012257	91.00	92.00	1.00	7.48	0.06	
			L012258	92.00	93.00	1.00	6.34	0.04	
			L012259	93.00	94.00	1.00	5.36	0.04	
			L012260	94.00	95.00	1.00	7.98	0.07	
			L012261	95.00	96.00	1.00	10	0.11	
			L012262	96.00	97.00	1.00	5.93	0.07	
			L012263	97.00	98.00	1.00	6.3	0.06	
			L012264	98.00	99.00	1.00	4.68	0.07	
			L012266	99.00	100.00	1.00	9.43	0.07	
			L012267	100.00	101.00	1.00	5.65	0.12	
			L012268	101.00	102.00	1.00	4.74	0.09	
			L012269	102.00	103.00	1.00	7.55	0.06	
			L012270	103.00	104.00	1.00	5.58	0.09	
			L012271	103.00	104.00	1.00	5.78	0.09	
			L012272	104.00	105.00	1.00	6.62	0.08	
			L012273	105.00	106.00	1.00	10.2	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
106.00 -	131.71	**GRPBX Graphitic Breccia** Breccia Zone. Unit is dark grey to black with orange gneissic original wall rock. Very hard and massive with large breccia fragments. Weak to moderate to strong graphite throughout. 106.00 to 107.35 Fault Zone. Broken blocky and gouged core. 115.00 to 118.00 Faulted Dyke Zone. Broken blocky core at 31 to 50 dca. 117.72 to 118.00 Felsic dyke. Orange, fine grained. Massive upper contact 50 dca lower contact 31 dca. Lower contact irregular at 70 dca.							
			L012274	106.00	107.00	1.00	8.27	0.09	
			L012276	107.00	108.00	1.00	9.32	0.07	2.6
			L012277	108.00	109.00	1.00	4.74	0.16	2.62
			L012278	109.00	110.00	1.00	0.25	0.25	2.64
			L012279	110.00	111.00	1.00	5.14	0.14	2.61
			L012280	111.00	112.00	1.00	7.12	0.04	
			L012281	112.00	113.00	1.00	6.35	0.09	
			L012282	113.00	114.00	1.00	10.3	0.09	
			L012283	114.00	115.00	1.00	5.59	0.1	
			L012284	115.00	116.00	1.00	6.34	0.06	
			L012286	116.00	117.00	1.00	4.5	0.05	
			L012287	117.00	118.00	1.00	5.08	0.09	
			L012288	118.00	119.00	1.00	8.65	0.15	
			L012289	119.00	120.00	1.00	8.82	0.11	
			L012291	120.00	121.00	1.00	4.97	0.13	
			L012290	120.00	121.00	1.00	4.95	0.14	
			L012292	121.00	122.00	1.00	11	0.13	
			L012293	122.00	123.00	1.00	2.82	0.17	
			L012294	123.00	124.00	1.00	7.62	0.16	
			L012296	124.00	125.00	1.00	11.05	0.13	
			L012297	125.00	126.00	1.00	4.89	0.16	
			L012298	126.00	127.00	1.00	5.94	0.24	
			L012299	127.00	128.00	1.00	2.88	0.21	
			L012300	128.00	129.00	1.00	5.69	0.21	
			L012301	129.00	130.00	1.00	9.15	0.2	
			L012302	130.00	131.00	1.00	5.49	0.25	
			L012303	131.00	131.71	0.71	8.09	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
131.71	134.58	**GRDROP Granodiorite with Graphitic Overprinting** Very dark grey to black with an orange tinge. Massive medium grained with minor olivine tinge. An igneous to mafic intrusive rock unit but neither a diabase nor mafic dyke. More closely associated with the gneisses. Possibly a nepheline syenite. Very weak graphite overprinting. Lower contact gradational at 61 dca.	L012304	131.71	133.00	1.29	0.06	0.04	
			L012306	133.00	134.00	1.00	0.32	0.06	
			L012307	134.00	134.58	0.58	0.46	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
134.58	209.19	**GRPBX Graphitic Breccia** Dark grey to black with numerous graphite matrix seams. Hard. Non magnetic. Strongly conductive. Large breccia fragments throughout. A good ore zone. Massive texture and non foliated. 141.80 to 141.90 Felsic dyke of gneiss fragment at 80 dca. 163.35 to 163.60 Fault Zone. Broken blocky no contact angles 5cm fault gouge at lower contact 181.64 to 183.00 Fault Zone. Broken blocky core. Upper contact 35 dca lower contact grounded. 184.00 to 190.00 40-50% granodiorite. Massive. Medium grained. Very hard. Weak to moderate graphite overprinting. 201.60 to 201.69 Granite dyke at 62 dca. 203.31 to 203.95 Granite dyke coming in from the east at 31 dca and leaving to the west at 165 dca. 204 to 209 20% granodiorite. 208.79 to 208.81 2cm granite dyke at 47 dca. Lower contact crosscut with dyke at 33 dca.	L012308	134.58	135.00	0.42	6.71	0.25	
			L012309	135.00	136.00	1.00	8.81	0.23	
			L012310	136.00	137.00	1.00	8.72	0.27	2.53
			L012311	136.00	137.00	1.00	8.58	0.28	
			L012312	137.00	138.00	1.00	4.31	0.32	
			L012313	138.00	139.00	1.00	8.46	0.27	
			L012314	139.00	140.00	1.00	6.02	0.21	
			L012316	140.00	141.00	1.00	4.26	0.39	2.67
			L012317	141.00	142.00	1.00	5.76	0.35	2.69
			L012318	142.00	143.00	1.00	6.79	0.3	2.68
			L012319	143.00	144.00	1.00	4.66	0.33	2.62
			L012320	144.00	145.00	1.00	8.66	0.48	
			L012321	145.00	146.00	1.00	6.47	0.23	
			L012322	146.00	147.00	1.00	4.57	0.26	
			L012323	147.00	148.00	1.00	8.64	0.52	
			L012324	148.00	149.00	1.00	9.17	0.4	
			L012326	149.00	150.00	1.00	13.25	0.34	
			L012327	150.00	151.00	1.00	6.16	0.44	
			L012328	151.00	152.00	1.00	4.19	0.39	
			L012329	152.00	153.00	1.00	7.24	0.32	
			L012331	153.00	154.00	1.00	9.06	0.34	
			L012330	153.00	154.00	1.00	8.88	0.34	
			L012332	154.00	155.00	1.00	7.05	0.18	
			L012333	155.00	156.00	1.00	3.37	0.27	
			L012334	156.00	157.00	1.00	8.17	0.27	
			L012336	157.00	158.00	1.00	10.3	0.32	
			L012337	158.00	159.00	1.00	4.45	0.24	
			L012338	159.00	160.00	1.00	4.36	0.31	
			L012339	160.00	161.00	1.00	1.06	0.25	
			L012340	161.00	162.00	1.00	3.9	0.39	
			L012341	162.00	163.00	1.00	3.45	0.3	
			L012342	163.00	164.00	1.00	4.42	0.3	
			L012343	164.00	165.00	1.00	10.05	0.31	
			L012344	165.00	166.00	1.00	8.24	0.42	
			L012346	166.00	167.00	1.00	8.01	0.39	
			L012347	167.00	168.00	1.00	9.34	0.33	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		L012348	168.00	169.00	1.00	9.46	0.31	
		L012349	169.00	170.00	1.00	6.94	0.34	
		L012350	170.00	171.00	1.00	14.3	0.28	
		L012351	170.00	171.00	1.00	13.9	0.33	
		L012352	171.00	172.00	1.00	14.5	0.81	
		L012353	172.00	173.00	1.00	12.05	0.33	
		L012354	173.00	174.00	1.00	8.24	0.35	
		L012356	174.00	175.00	1.00	7.75	0.24	
		L012357	175.00	176.00	1.00	5.68	0.27	
		L012358	176.00	177.00	1.00	6.52	0.25	
		L012359	177.00	178.00	1.00	11.95	0.37	
		L012360	178.00	179.00	1.00	7.07	0.33	
		L012361	179.00	180.00	1.00	9.43	0.27	
		L012362	180.00	181.00	1.00	4.89	0.48	
		L012363	181.00	182.00	1.00	8.19	0.38	
		L012364	182.00	183.00	1.00	1.29	0.35	
		L012366	183.00	184.00	1.00	5.96	0.35	
		L012367	184.00	185.00	1.00	5.19	0.39	
		L012368	185.00	186.00	1.00	1.61	0.32	
		L012369	186.00	187.00	1.00	3.3	0.34	
		L012370	187.00	188.00	1.00	2.95	0.34	
		L012371	187.00	188.00	1.00	3.12	0.33	
		L012372	188.00	189.00	1.00	12.25	0.29	
		L012373	189.00	190.00	1.00	6.09	0.29	
		L012374	190.00	191.00	1.00	5.01	0.27	
		L012376	191.00	192.00	1.00	3.92	0.26	
		L012377	192.00	193.00	1.00	13.1	0.35	
		L012378	193.00	194.00	1.00	8.48	0.31	
		L012379	194.00	195.00	1.00	5.77	0.42	
		L012380	195.00	196.00	1.00	10.05	0.38	
		L012381	196.00	197.00	1.00	7.23	0.38	
		L012382	197.00	198.00	1.00	10.25	0.37	
		L012383	198.00	199.00	1.00	10.2	0.31	
		L012384	199.00	200.00	1.00	9.96	0.37	
		L012386	200.00	201.00	1.00	5.28	0.31	
		L012387	201.00	202.00	1.00	7.08	0.42	
		L012388	202.00	203.00	1.00	9.16	0.24	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		L012389	203.00	204.00	1.00	1.89	0.49	
		L012390	204.00	205.00	1.00	8.02	0.3	
		L012391	204.00	205.00	1.00	7.46	0.3	
		L012392	205.00	206.00	1.00	10.5	0.33	
		L012393	206.00	207.00	1.00	2.65	0.32	
		L012394	207.00	208.00	1.00	8.47	0.46	
		L012396	208.00	209.19	1.19	8.87	0.41	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
209.19	265.14	**GRDROP Granodiorite with Graphitic Overprinting** Possibly a nepheline syenite. Dark grey to black. Very hard. Massive. Weak to moderate graphite overprinting. 50/50 orthoclase and plagioclase (orange and white) some olivine and 50% dark amphiboles. Local minor graphite brecciation and or graphite filled fractures and crackles. 226to 227 10% graphite bx 229.29 to 229.61 strongly fractured with hematite. 240 to 241 40% graphite bx 241 to 242 30% graphite bx 243.81 to 244.33 Mafic intrusive. Light green with dark green phenocrysts. Medium grained and massive. Lower contact sharply cuts off graphite fractures at 68 dca. 248 to 249 30% bx 252 to 253 30% bx 259 to 262 30% bx Lower contact at 64 dca.							
			L012397	209.19	210.00	0.81	0.72	0.33	
			L012398	210.00	211.00	1.00	0.61	0.31	2.59
			L012399	211.00	212.00	1.00	3.06	0.25	2.61
			L012400	212.00	213.00	1.00	0.72	0.24	2.64
			L012401	213.00	214.00	1.00	0.6	0.32	2.67
			L012402	214.00	215.00	1.00	0.4	0.34	
			L012403	215.00	216.00	1.00	0.22	0.37	
			L012404	216.00	217.00	1.00	2.57	0.31	
			L012406	217.00	218.00	1.00	1.03	0.33	
			L012407	218.00	219.00	1.00	1.76	0.4	
			L012408	219.00	220.00	1.00	0.71	0.4	
			L012409	220.00	221.00	1.00	1.39	0.34	
			L012410	221.00	222.00	1.00	0.96	0.32	
			L012411	221.00	222.00	1.00	0.88	0.31	
			L012412	222.00	223.00	1.00	1.15	0.23	
			L012413	223.00	224.00	1.00	1.55	0.3	
			L012414	224.00	225.00	1.00	0.94	0.46	
			L012416	225.00	226.00	1.00	0.93	0.3	
			L012417	226.00	227.00	1.00	1.49	0.4	
			L012418	227.00	228.00	1.00	0.59	0.37	
			L012419	228.00	229.00	1.00	3.05	0.29	
			L012420	229.00	230.00	1.00	4.12	0.52	
			L012421	230.00	231.00	1.00	7.98	0.33	
			L012422	231.00	232.00	1.00	5.22	0.33	
			L012423	232.00	233.00	1.00	1.41	0.35	
			L012424	233.00	234.00	1.00	6.4	0.39	
			L012426	234.00	235.00	1.00	1.29	0.37	
			L012427	235.00	236.00	1.00	1.77	0.37	
			L012428	236.00	237.00	1.00	4.51	0.29	
			L012429	237.00	238.00	1.00	3.2	0.33	
			L012431	238.00	239.00	1.00	4.9	0.35	
			L012430	238.00	239.00	1.00	4.8	0.35	
			L012432	239.00	240.00	1.00	1.88	0.37	
			L012433	240.00	241.00	1.00	8.55	0.32	
			L012434	241.00	242.00	1.00	4.98	0.31	
			L012436	242.00	243.00	1.00	1.33	0.39	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		L012437	243.00	243.81	0.81	1.74	0.31	
		L012438	243.81	244.33	0.52	0.1	0.11	
		L012439	244.33	245.00	0.67	1.96	0.18	
		L012440	245.00	246.00	1.00	0.48	0.06	
		L012441	246.00	247.00	1.00	1.42	0.06	
		L012442	247.00	248.00	1.00	0.73	0.25	
		L012443	248.00	249.00	1.00	5.11	0.27	
		L012444	249.00	250.00	1.00	0.77	0.07	
		L012446	250.00	251.00	1.00	0.37	0.28	
		L012447	251.00	252.00	1.00	2.81	0.31	
		L012448	252.00	253.00	1.00	8.2	0.33	
		L012449	253.00	254.00	1.00	3.35	0.16	
		L012450	254.00	255.00	1.00	2.83	0.38	
		L012451	254.00	255.00	1.00	2.57	0.38	
		L012452	255.00	256.00	1.00	1	0.29	
		L012453	256.00	257.00	1.00	1.21	0.33	
		L012454	257.00	258.00	1.00	1.46	0.36	
		L012456	258.00	259.00	1.00	0.18	0.31	
		L012457	259.00	260.00	1.00	1.61	0.33	
		L012458	260.00	261.00	1.00	11.1	0.21	
		L012459	261.00	262.00	1.00	5.02	0.27	
		L012460	262.00	263.00	1.00	0.32	0.07	
		L012461	263.00	264.00	1.00	0.13	0.07	
		L012462	264.00	265.14	1.14	0.33	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
265.14	273.31	**GRPBX Graphitic Breccia** Dark grey to black large breccia fragments within granodiorite or gneissic matrix. Black graphite fracture filling and replacement of matrix. Approximately 30% gneiss interbedded into unit. Unit is mostly massive with local bands of breccia "beds". 266.04 to 266.57 Gneiss at 66dca. 268.12 to 268.15 Felsic orthoclase dyke at 66 dca. Lower contact sharp at 60 dca.	L012463	265.14	266.04	0.90	8.4	0.41	
			L012464	266.04	267.00	0.96	9.14	0.29	
			L012466	267.00	268.00	1.00	3.18	0.36	
			L012467	268.00	269.00	1.00	6.47	0.34	
			L012468	269.00	270.00	1.00	6.53	0.34	
			L012469	270.00	271.00	1.00	5.95	0.38	
			L012471	271.00	272.00	1.00	17.3	0.14	
			L012470	271.00	272.00	1.00	17.95	0.1	
			L012472	272.00	273.31	1.31	7.01	0.35	
273.31	280.12	**GRDROP Granodiorite with Graphitic Overprinting** Light grey to light grey-green to pink and or orange. Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. 275 to 280.12 50% graphitic breccia cross cutting granodiorite. Lower contact is a 5cm mafic dyke at 55 dca.	L012473	273.31	274.00	0.69	0.19	0.33	
			L012474	274.00	275.00	1.00	0.12	0.27	
			L012476	275.00	276.00	1.00	3.84	0.3	
			L012477	276.00	277.00	1.00	7.46	0.31	
			L012478	277.00	278.00	1.00	6.29	0.37	
			L012479	278.00	279.00	1.00	4	0.42	
			L012480	279.00	280.12	1.12	1.28	0.34	
280.12	283.69	**GRPBX Graphitic Breccia** Black to dark grey. 70% breccia with strongly overprinted granodiorite. 1-5cm angular breccia fragments. Mostly massive with some contact relationships at approximately 60 dca. 283.31 to 283.50 granodiorite at 60 dca. Lower contact sharp at 43 dca.	L012481	280.12	281.00	0.88	3.75	0.3	
			L012482	281.00	282.00	1.00	0.66	0.34	
			L012483	282.00	283.00	1.00	12.65	0.1	
			L012484	283.00	283.69	0.69	7.7	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
283.69	286.09	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite. Dark to lighter grey with some orange orthoclase, plagioclase and amphiboles giving a salt and pepper texture. Weak graphitic overprinting. Lower contact sharp at 31 dca.	L012486	283.69	284.00	0.31	0.43	0.42	
			L012487	284.00	285.00	1.00	0.39	0.4	
			L012488	285.00	286.09	1.09	0.48	0.36	
286.09	287.91	**GRPBX Graphitic Breccia** Black to very dark grey breccia. Large breccia fragments. Lower contact sharp at 62 dca.	L012489	286.09	287.00	0.91	16.2	0.11	
			L012491	287.00	287.91	0.91	9.51	0.3	
			L012490	287.00	287.91	0.91	8.48	0.3	
287.91	288.96	**GRDR Granodiorite** Light grey to light grey-green to pink and or orange. Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Massive granodiorite lighter grey than previous but similar texture. Lower contact sharp at 62 dca.	L012492	287.91	288.96	1.05	0.39	0.35	
288.96	292.11	**GRPBX Graphitic Breccia** Dark grey to black. Large breccia fragments with 30% granodiorite. 289.65 to 290.26 Granodiorite at 62 dca. Lower contact very sharp with intrusion cutting off graphite matrix at 77 dca.	L012493	288.96	290.00	1.04	10.7	0.52	
			L012494	290.00	291.00	1.00	4.56	0.38	
			L012496	291.00	292.11	1.11	6.18	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
292.11	293.50	**FD Felsic Dyke** Dark grey. Very hard. Fine grained with 10% orthoclase and the rest likely quartz silica. Possible potassic alteration. Lower contact irregular at 42 dca.	L012497	292.11	293.00	0.89	0.05	0.08	
			L012498	293.00	293.50	0.50	0.04	0.14	
293.50	298.86	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Dark grey. Massive. Unit is well overprinted with graphite including smeared blebs up to 3cm. Lower contact gradationally changes to a different igneous rock with more orthoclase.	L012499	293.50	294.00	0.50	3.68	0.42	
			L012500	294.00	295.00	1.00	11.45	0.35	
			L012501	295.00	296.00	1.00	5.51	0.42	
			L012502	296.00	297.00	1.00	0.24	0.37	
			L012503	297.00	298.00	1.00	0.77	0.41	
			L012504	298.00	298.86	0.86	0.75	0.45	
298.86	301.51	**FD Felsic Dyke** Porphyritic rock. Orange orthoclase with what appears to be an olive green phenocryst approximately 1mm. Unit then changes to a felsic dyke similar to previous. Very hard. Fine grained. Unit contains 1-2% very fine grained pyrite and arsenopyrite. 300.82 to 301.51 Felsic intrusive. Upper contact at 48 dca. Lower contact at 42 dca.	L012506	298.86	300.00	1.14	0.04	0.54	
			L012507	300.00	300.82	0.82	0.03	0.56	
			L012508	300.82	301.51	0.69	0.01	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
301.51	313.17	**GRPBX Graphitic Breccia** Dark grey to black. Large breccia fragments with graphite matrix and fracture filling. Up to 30% granodiorite within unit. 307.43 to 307.53 Sharp felsic intrusion. Very dark green with dark quartz (?) phenocrysts. Contacts at 47 dca. Lower contact sharp at 49 dca.	L012509	301.51	302.00	0.49	1.12	0.33	
			L012511	302.00	303.00	1.00	2.97	0.4	
			L012510	302.00	303.00	1.00	2.83	0.4	
			L012512	303.00	304.00	1.00	3.92	0.42	
			L012513	304.00	305.00	1.00	1.33	0.49	
			L012514	305.00	306.00	1.00	8.94	0.44	
			L012516	306.00	307.00	1.00	4.53	0.15	
			L012517	307.00	308.00	1.00	4.54	0.37	
			L012518	308.00	309.00	1.00	4.45	0.39	
			L012519	309.00	310.00	1.00	1.65	0.45	
			L012520	310.00	311.00	1.00	5.19	0.41	
			L012521	311.00	312.00	1.00	4.7	0.56	
			L012522	312.00	313.17	1.17	5	0.25	
313.17	324.91	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Very dark grey. Massive with strong graphite overprinting and 1-2% graphite fracture filling. Hard. Salt and pepper texture visible beneath overprinting. 319 to 320 fracture zone at 15 to 25 dca with 20% graphite. Lower contact gradational at 81 dca.	L012523	313.17	314.00	0.83	0.44	0.26	
			L012524	314.00	315.00	1.00	2.72	0.21	
			L012526	315.00	316.00	1.00	2.68	0.27	
			L012527	316.00	317.00	1.00	2.88	0.42	
			L012528	317.00	318.00	1.00	2.02	0.42	
			L012529	318.00	319.00	1.00	4.59	0.31	
			L012531	319.00	320.00	1.00	14.1	0.49	
			L012530	319.00	320.00	1.00	14.25	0.46	
			L012532	320.00	321.00	1.00	3.38	0.45	
			L012533	321.00	322.00	1.00	3.7	0.41	
			L012534	322.00	323.00	1.00	3.3	0.48	
			L012536	323.00	324.00	1.00	0.61	0.35	
			L012537	324.00	324.91	0.91	1	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
324.91	327.12	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host. Very dark grey to black. Large breccia fragments with granodiorite host rock. Lower contact fractured at 47 dca.	L012538	324.91	326.00	1.09	9.16	0.29	
			L012539	326.00	327.12	1.12	16.2	0.42	
327.12	330.00	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Dark to very dark grey. Graphite overprinting. Lower contact difficult to determine due to fracturing of lower unit.	L012540	327.12	328.00	0.88	1.02	0.36	
			L012541	328.00	329.00	1.00	4.38	0.4	
			L012542	329.00	330.00	1.00	1.12	0.38	
330.00	336.33	**SYENOP Syenite with Graphitic Overprinting** 60% orthoclase with other granodiorite. Unit is well fractured and faulted. Bleached and weathered sections. Very minor graphite. Lower contact at 67 dca.	L012543	330.00	331.00	1.00	0.89	0.22	
			L012544	331.00	332.00	1.00	0.13	0.06	
			L012546	332.00	333.00	1.00	0.26	0.04	
			L012547	333.00	334.00	1.00	0.37	0.08	
			L012548	334.00	335.00	1.00	0.48	0.3	
			L012549	335.00	336.33	1.33	0.35	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
336.33	341.56	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host. Very dark grey to black. Well mineralized zone. Lower contact sharp at 36 dca.	L012551	336.33	337.00	0.67	1.45	0.57	
			L012550	336.33	337.00	0.67	0.99	0.6	
			L012552	337.00	338.00	1.00	6.63	0.41	
			L012553	338.00	339.00	1.00	8.21	0.34	
			L012554	339.00	340.00	1.00	15.25	0.29	
			L012556	340.00	341.00	1.00	5.35	0.46	
			L012557	341.00	341.56	0.56	3.85	0.4	
341.56	347.30	**FD Felsic Dyke** Very dark green. Glassy and very hard. Fine grained to aphanitic. 344.3 to 347.3 strongly fractured. Lower contact fractured at 41 dca.	L012558	341.56	342.25	0.69	0.06	0.04	
			L012559	342.25	343.00	0.75	0.02	0.05	
			L012560	343.00	344.00	1.00	0.02	0.04	
			L012561	344.00	345.00	1.00	0.02	0.05	
			L012562	345.00	346.00	1.00	0.03	0.05	
			L012563	346.00	347.30	1.30	0.02	0.05	
347.30	349.66	**MD Mafic Dyke** Dark green to green. Medium grained. Could be olivine diabase. Very strongly fractured. Lower contact brittle healed fault at 75 dca with 3% calcite.	L012564	347.30	348.50	1.20	0.02	0.04	
			L012566	348.50	349.66	1.16	0.03	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
349.66 -	361.22	**GRPBX Graphitic Breccia** Dark grey to black. A mixture of 50% breccia 50% granodiorite. Numerous fracture filling graphite areas and well mineralized. Lower contact sharp at 63 dca.	L012567	349.66	351.00	1.34	8.63	0.58	
			L012568	351.00	352.00	1.00	12.9	0.4	
			L012569	352.00	353.00	1.00	2.04	0.2	
			L012571	353.00	354.00	1.00	5.99	0.09	
			L012570	353.00	354.00	1.00	5.88	0.1	
			L012572	354.00	355.00	1.00	13.9	0.2	
			L012573	355.00	356.00	1.00	5.03	0.32	
			L012574	356.00	357.00	1.00	3.45	0.36	
			L012576	357.00	358.00	1.00	3.64	0.35	
			L012577	358.00	359.00	1.00	1.61	0.39	
			L012578	359.00	360.00	1.00	7.65	0.39	
			L012579	360.00	361.22	1.22	8.45	0.41	
361.22 -	365.29	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Dark grey. Massive salt and pepper texture. Lower contact at 63 dca.	L012580	361.22	362.00	0.78	0.93	0.37	
			L012581	362.00	363.00	1.00	0.57	0.4	
			L012582	363.00	364.00	1.00	1.24	0.37	
			L012583	364.00	365.29	1.29	3.01	0.23	
365.29 -	369.92	**MD Mafic Dyke** Dark green to dark grey. Massive, fine to medium grained, "gabbroic texture". Dark amphiboles or hornblendes visible. Unit contains minor graphite fracture filling. Lower contact at 63 dca.	L012584	365.29	366.00	0.71	2.64	0.25	
			L012586	366.00	367.00	1.00	5.63	0.23	
			L012587	367.00	368.00	1.00	0.44	0.12	
			L012588	368.00	369.00	1.00	4.02	0.19	
			L012589	369.00	369.92	0.92	2.67	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
369.92	371.02	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host. Lower contact at 45 dca.	L012591	369.92	371.02	1.10	7.85	0.27	
			L012590	369.92	371.02	1.10	6.21	0.28	
371.02	375.50	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Lower contact at 45 dca.	L012592	371.02	372.00	0.98	1.27	0.25	
			L012593	372.00	373.00	1.00	0.5	0.48	
			L012594	373.00	374.00	1.00	0.34	0.47	
			L012596	374.00	375.00	1.00	0.41	0.52	
			L012597	375.00	375.50	0.50	0.28	0.37	
375.50	389.10	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host.382.56 to 382.87 Granodiorite dyke. Contacts sharp at 80dca. Lower contact at 45 dca.	L012598	375.50	376.00	0.50	10.15	0.55	
			L012599	376.00	377.00	1.00	5.88	0.37	
			L012600	377.00	378.00	1.00	10.95	0.23	
			L012601	378.00	379.00	1.00	6.61	0.38	
			L012602	379.00	380.00	1.00	8.5	0.18	
			L012603	380.00	381.00	1.00	11.85	0.56	
			L012604	381.00	382.00	1.00	7.79	0.48	
			L012606	382.00	383.00	1.00	3.23	0.4	
			L012607	383.00	384.00	1.00	9.49	0.37	
			L012608	384.00	385.00	1.00	6.84	0.28	
			L012609	385.00	386.00	1.00	1.16	0.17	
			L012611	386.00	387.00	1.00	10.7	0.29	
			L012610	386.00	387.00	1.00	12.65	0.3	
			L012612	387.00	388.00	1.00	4.43	0.33	
			L012613	388.00	389.10	1.10	8.36	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
389.10	392.43	**GRDR Granodiorite** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Lower contact 7cm of ripped up plagioclase and orthoclase at 45dca.	L012614	389.10	390.00	0.90	0.27	0.31	
			L012616	390.00	391.00	1.00	0.45	0.35	
			L012617	391.00	392.43	1.43	0.14	0.29	
392.43	394.72	**FD Felsic Dyke** Dark grey. Fine grained. Massive with minor cubic plagioclase phenocrysts. Orange tinge of orthoclase present when wet. Lower contact at 50dca.	L012618	392.43	393.00	0.57	0.01	0.02	
			L012619	393.00	394.00	1.00	0.01	0.11	
			L012620	394.00	394.72	0.72	0.01	0.02	
394.72	400.55	**GRDR Granodiorite** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Dark grey with large 2-5mm orange and white feldspar phenocrysts crystals. 396.38 to 396.44 graphite breccia "bed" at 61 dca. Lower contact sharp at 50dca.	L012621	394.72	396.00	1.28	0.13	0.33	
			L012622	396.00	397.00	1.00	0.29	0.44	
			L012623	397.00	398.00	1.00	0.15	0.28	
			L012624	398.00	399.00	1.00	0.13	0.22	
			L012626	399.00	400.00	1.00	0.25	0.11	
			L012627	400.00	400.55	0.55	0.46	0.37	
400.55	402.69	**GRPBX Graphitic Breccia** Breccia Zone. Black with grey patches. Very hard. Massive host rock. Lacking orthoclase but contains 1-3mm cubic plagioclase and salt and pepper texture suggests a monzonite or diorite may be the original matrix. Possibly a nepheline syenite host. Black to very dark grey. Well mineralized breccia. Lower contact sharp at 59 dca.	L012628	400.55	401.50	0.95	7.58	0.59	
			L012629	401.50	402.69	1.19	7.86	0.5	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
402.69	405.97	**GRDROP Granodiorite with Graphitic Overprinting** Massive granodiorite with 50/50 salt and pepper texture of plagioclase and amphiboles with minor orthoclase. Lighter grey with less graphite overprinting but 1% fracture filling graphite. Lower contact has 1cm offset at 60 dca.	L012631	402.69	404.00	1.31	1.06	0.76	
			L012630	402.69	404.00	1.31	1.1	0.78	
			L012632	404.00	405.00	1.00	0.8	0.57	
			L012633	405.00	405.97	0.97	0.68	0.71	
405.97	409.79	**GRPBX Graphitic Breccia** 60% graphite breccia with crosscutting granodiorite and felsic? Dykes. 405.97 to 406.40 Breccia at 57 dca. 406.40 to 406.95 Granodiorite at 50 dca. 1% vuggy py 406.95 to 407.19 Pale buff pink felsic dyke at 35 dca. 407.19 to 407.35 Granodiorite lower contact at 125 dca. 407.35 to 407.48 Breccia lower contact at 48 dca. 407.48 to 408.18 Granodiorite lower contact at 50 dca. 408.18 to 409.79 breccia with 408.64 to 408.95 a 2cm to 10cm boudinaged felsic dyke crosscutting the core at 140 dca. Lower contact irregular at 75 dca.	L012634	405.97	407.00	1.03	4.18	0.46	
			L012636	407.00	408.00	1.00	1.62	0.47	
			L012637	408.00	409.00	1.00	4.55	0.34	
			L012638	409.00	409.79	0.79	7.77	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
409.79	438.00	**SYENSL Syenite Sill (unmineralized)** Light green to dark green to dark grey, "gabbroic texture". A mixture of 60% sill unit that is fine to medium grained and 40% crosscutting felsic dykes in a swarm. Dykes are massive and very hard. 431m 1% fracture filing pyrrhotite. EOH 438.0m	L012639	409.79	411.00	1.21	0.03	0.12	
			L012640	411.00	412.00	1.00	0.02	0.35	2.64
			L012641	412.00	413.00	1.00	0.02	0.03	2.6
			L012642	413.00	414.00	1.00	0.02	0.14	2.53
			L012643	414.00	415.00	1.00	0.02	0.04	2.5
			L012644	415.00	416.00	1.00	0.02	0.43	
			L012646	416.00	417.00	1.00	0.01	0.2	
			L012647	417.00	418.00	1.00	0.01	0.08	
			L012648	418.00	419.00	1.00	0.01	0.18	
			L012649	419.00	420.00	1.00	0.01	0.08	
			L012651	420.00	421.00	1.00	0.02	0.07	
			L012650	420.00	421.00	1.00	0.03	0.06	
			L012652	421.00	422.00	1.00	0.02	0.05	
			L012653	422.00	423.00	1.00	0.01	0.2	
			L012654	423.00	424.00	1.00	0.02	0.07	
			L012656	424.00	425.00	1.00	0.01	0.06	
			L012657	425.00	426.00	1.00	0.02	0.04	
			L012658	426.00	427.00	1.00	0.01	0.08	
			L012659	427.00	428.00	1.00	0.02	0.08	
			L012660	428.00	429.00	1.00	0.03	0.27	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	684.00	30/03/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545932.4	682953.4			Reflex APS		08/04/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	123.80	181.60		-67.00	Chibougamau Diamond Drilling		18/04/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Mike Roberts		M. Roberts/A.Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	636	Casing Pulled	Casing (1)	48.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test the Breccia Zone at depth below holes Z12-4F9 and Z13-4F10.	This hole intersected several intervals of graphite breccia from 460.58m to 596.00m. The main breccia zone was intersected from 460.58m to 545.52m (approx. 90m thick downhole) with minor syenite intervals. From 393.00m to 596.00m, an averaged assay of 3.01% Cg over 203.00m was obtained.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
57.00			188.9	179.9	-67.4	-67.4	☑	Reflex EZ	68686	
72.00			188.1	179.1	-67.4	-67.4	☑	Reflex EZ	64284	
93.00			189.5	180.5	-67.5	-67.5	☑	Reflex EZ	56359	
102.00			187.5	178.5	-67.6	-67.6	☑	Reflex EZ	58601	
111.00			189.9	180.9	-67.7	-67.7	☑	Reflex EZ	64951	
132.00			188.9	179.9	-67.5	-67.5	☑	Reflex EZ	99792	
141.00			189.1	180.1	-67.4	-67.4	☑	Reflex EZ	99758	
147.00			191	182	-67.7	-67.7	☑	Reflex EZ	56344	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
150.00			190	181	-67.5	-67.5	☑	Reflex EZ	56383	
156.00			190.7	181.7	-67.7	-67.7	☑	Reflex EZ	56322	
165.00			192.2	183.2	-67.5	-67.5	☑	Reflex EZ	56333	
171.00			192	183	-67.5	-67.5	☑	Reflex EZ	56335	
177.00			188.2	179.2	-67.2	-67.2	☑	Reflex EZ	99728	
186.00			191.9	182.9	-67.4	-67.4	☑	Reflex EZ	56372	
189.00			190.6	181.6	-67.3	-67.3	☑	Reflex EZ	56404	
192.00			190.8	181.8	-67.2	-67.2	☑	Reflex EZ	56413	
195.00			191	182	-67.3	-67.3	☑	Reflex EZ	56358	
198.00			191.2	182.2	-67.1	-67.1	☑	Reflex EZ	56444	
201.00			191	182	-67.1	-67.1	☑	Reflex EZ	56376	
204.00			191.2	182.2	-67.1	-67.1	☑	Reflex EZ	56304	
207.00			190.8	181.8	-67.2	-67.2	☑	Reflex EZ	56389	
210.00			190.8	181.8	-67.1	-67.1	☑	Reflex EZ	56403	
213.00			192.3	183.3	-67.1	-67.1	☑	Reflex EZ	56274	
219.00			191.3	182.3	-67.1	-67.1	☑	Reflex EZ	56383	
222.00			191.2	182.2	-67.2	-67.2	☑	Reflex EZ	56378	
225.00			192.7	183.7	-67	-67	☑	Reflex EZ	56346	
228.00			191.8	182.8	-67	-67	☑	Reflex EZ	56353	
231.00			192.1	183.1	-67.3	-67.3	☑	Reflex EZ	56261	
234.00			191.8	182.8	-67.2	-67.2	☑	Reflex EZ	56354	
237.00			192	183	-67.2	-67.2	☑	Reflex EZ	56423	
240.00			192	183	-67.3	-67.3	☑	Reflex EZ	56380	
246.00			191.4	182.4	-67	-67	☑	Reflex EZ	56429	
249.00			191.3	182.3	-67.2	-67.2	☑	Reflex EZ	56363	
252.00			191.3	182.3	-67.2	-67.2	☑	Reflex EZ	56368	
255.00			191.2	182.2	-67.2	-67.2	☑	Reflex EZ	56379	
258.00			191.6	182.6	-67	-67	☑	Reflex EZ	56386	
261.00			192.3	183.3	-67.2	-67.2	☑	Reflex EZ	56294	
264.00			191.4	182.4	-66.9	-66.9	☑	Reflex EZ	56389	
270.00			191.1	182.1	-67.1	-67.1	☑	Reflex EZ	56350	
273.00			192.7	183.7	-67	-67	☑	Reflex EZ	56344	
276.00			192.3	183.3	-67	-67	☑	Reflex EZ	56416	
279.00			192.4	183.4	-67	-67	☑	Reflex EZ	56325	
282.00			192	183	-67	-67	☑	Reflex EZ	56378	
285.00			192.4	183.4	-67	-67	☑	Reflex EZ	56343	
288.00			193.9	184.9	-67.1	-67.1	☑	Reflex EZ	56676	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
291.00			190	181	-66.9	-66.9	☑	Reflex EZ	56205	
294.00			191.4	182.4	-66.9	-66.9	☑	Reflex EZ	56287	
297.00			192	183	-67.1	-67.1	☑	Reflex EZ	56339	
303.00			191.2	182.2	-67	-67	☑	Reflex EZ	56113	
306.00			192	183	-67.3	-67.3	☑	Reflex EZ	56384	
309.00			191.3	182.3	-68.3	-68.3	☑	Reflex EZ	56340	
312.00			191.4	182.4	-66.9	-66.9	☑	Reflex EZ	56206	
315.00			192.7	183.7	-69.6	-69.6	☑	Reflex EZ	56125	
318.00			190.7	181.7	-66.8	-66.8	☑	Reflex EZ	56361	
321.00			192	183	-67.1	-67.1	☑	Reflex EZ	56275	
324.00			192.4	183.4	-66.8	-66.8	☑	Reflex EZ	56366	
327.00			190.7	181.7	-67	-67	☑	Reflex EZ	56277	
330.00			190.9	181.9	-66.9	-66.9	☑	Reflex EZ	56342	
333.00			191.2	182.2	-67	-67	☑	Reflex EZ	56294	
336.00			190.8	181.8	-66.8	-66.8	☑	Reflex EZ	56392	
339.00			190.1	181.1	-66.6	-66.6	☑	Reflex EZ	56361	
342.00			190.8	181.8	-66.5	-66.5	☑	Reflex EZ	56413	
345.00			192.2	183.2	-66.5	-66.5	☑	Reflex EZ	56225	
348.00			191.9	182.9	-66.5	-66.5	☑	Reflex EZ	56150	
351.00			191	182	-66.5	-66.5	☑	Reflex EZ	56198	
354.00			191.3	182.3	-66.3	-66.3	☑	Reflex EZ	56052	
357.00			189.8	180.8	-66.4	-66.4	☑	Reflex EZ	55791	
360.00			192.2	183.2	-66.3	-66.3	☑	Reflex EZ	56399	
363.00			191	182	-66.5	-66.5	☑	Reflex EZ	56186	
366.00			191.5	182.5	-66.5	-66.5	☑	Reflex EZ	56183	
369.00			191.2	182.2	-66.4	-66.4	☑	Reflex EZ	56088	
372.00			192	183	-66.3	-66.3	☑	Reflex EZ	56400	
375.00			191.9	182.9	-66.1	-66.1	☑	Reflex EZ	56317	
378.00			190.2	181.2	-66.3	-66.3	☑	Reflex EZ	56447	
381.00			191.8	182.8	-66.7	-66.7	☑	Reflex EZ	56191	
384.00			191.2	182.2	-66.3	-66.3	☑	Reflex EZ	56231	
387.00			191.7	182.7	-66	-66	☑	Reflex EZ	56218	
390.00			191.5	182.5	-66	-66	☑	Reflex EZ	56269	
393.00			191.8	182.8	-66.1	-66.1	☑	Reflex EZ	56265	
396.00			191.1	182.1	-66.2	-66.2	☑	Reflex EZ	56212	
399.00			191.7	182.7	-66.2	-66.2	☑	Reflex EZ	56253	
402.00			191.6	182.6	-66.2	-66.2	☑	Reflex EZ	56333	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
405.00			191.1	182.1	-65.9	-65.9	☑	Reflex EZ	56355	
411.00			191.1	182.1	-66.1	-66.1	☑	Reflex EZ	56386	
414.00			191.1	182.1	-66.1	-66.1	☑	Reflex EZ	56375	
417.00			192.3	183.3	-66.3	-66.3	☑	Reflex EZ	56417	
420.00			191.2	182.2	-66	-66	☑	Reflex EZ	56402	
423.00			191.1	182.1	-65.8	-65.8	☑	Reflex EZ	56448	
426.00			192.1	183.1	-65.9	-65.9	☑	Reflex EZ	56465	
429.00			191.7	182.7	-65.7	-65.7	☑	Reflex EZ	56376	
432.00			190.5	181.5	-65.8	-65.8	☑	Reflex EZ	56476	
435.00			191.8	182.8	-65.8	-65.8	☑	Reflex EZ	56307	
438.00			191.1	182.1	-65.7	-65.7	☑	Reflex EZ	56307	
441.00			191.8	182.8	-65.6	-65.6	☑	Reflex EZ	56518	
444.00			192.3	183.3	-65.7	-65.7	☑	Reflex EZ	56341	
447.00			191.5	182.5	-65.4	-65.4	☑	Reflex EZ	56415	
453.00			192	183	-65.7	-65.7	☑	Reflex EZ	56438	
456.00			191.9	182.9	-65.7	-65.7	☑	Reflex EZ	56307	
459.00			192.9	183.9	-65.4	-65.4	☑	Reflex EZ	56364	
462.00			191.6	182.6	-65.6	-65.6	☑	Reflex EZ	56390	
465.00			192.3	183.3	-65.6	-65.6	☑	Reflex EZ	56459	
468.00			192.1	183.1	-65.6	-65.6	☑	Reflex EZ	56413	
471.00			191.5	182.5	-65.6	-65.6	☑	Reflex EZ	56429	
474.00			192.4	183.4	-65.3	-65.3	☑	Reflex EZ	56367	
477.00			192	183	-65.5	-65.5	☑	Reflex EZ	56267	
480.00			191.6	182.6	-66.3	-66.3	☑	Reflex EZ	56309	
483.00			192.2	183.2	-65.4	-65.4	☑	Reflex EZ	56289	
486.00			192.4	183.4	-64.8	-64.8	☑	Reflex EZ	56437	
489.00			192.2	183.2	-65.4	-65.4	☑	Reflex EZ	56337	
492.00			192.1	183.1	-65.4	-65.4	☑	Reflex EZ	56318	
495.00			191.8	182.8	-64.9	-64.9	☑	Reflex EZ	56385	
498.00			192.8	183.8	-65.3	-65.3	☑	Reflex EZ	56427	
501.00			192.6	183.6	-65.2	-65.2	☑	Reflex EZ	56107	
504.00			190.6	181.6	-65.2	-65.2	☑	Reflex EZ	54776	
507.00			190.6	181.6	-65.7	-65.7	☑	Reflex EZ	56367	
510.00			195.5	186.5	-65.8	-65.8	☑	Reflex EZ	56131	
513.00			190.1	181.1	-65.1	-65.1	☑	Reflex EZ	56064	
516.00			192	183	-64.9	-64.9	☑	Reflex EZ	56501	
519.00			192	183	-64.8	-64.8	☑	Reflex EZ	56533	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
522.00			193.2	184.2	-64.9	-64.9	☑	Reflex EZ	56228	
525.00			194	185	-61	-61	☑	Reflex EZ	56548	
528.00			192.6	183.6	-64.5	-64.5	☑	Reflex EZ	56226	
534.00			193	184	-64.6	-64.6	☑	Reflex EZ	56327	
537.00			193.3	184.3	-64.5	-64.5	☑	Reflex EZ	56555	
540.00			192.7	183.7	-64.7	-64.7	☑	Reflex EZ	56395	
543.00			193.5	184.5	-64.4	-64.4	☑	Reflex EZ	56486	
546.00			194.3	185.3	-64.4	-64.4	☑	Reflex EZ	55425	
549.00			193.4	184.4	-64.4	-64.4	☑	Reflex EZ	56477	
552.00			193.4	184.4	-64.4	-64.4	☑	Reflex EZ	56506	
555.00			192.8	183.8	-64.4	-64.4	☑	Reflex EZ	56341	
558.00			194.7	185.7	-61.6	-61.6	☑	Reflex EZ	56405	
561.00			193.2	184.2	-64.3	-64.3	☑	Reflex EZ	56373	
564.00			190.2	181.2	-64.7	-64.7	☑	Reflex EZ	56253	
567.00			192.6	183.6	-64	-64	☑	Reflex EZ	56479	
570.00			192.7	183.7	-64.3	-64.3	☑	Reflex EZ	56184	
573.00			193	184	-64	-64	☑	Reflex EZ	56458	
576.00			194.5	185.5	-64.1	-64.1	☑	Reflex EZ	56479	
579.00			193.2	184.2	-64.2	-64.2	☑	Reflex EZ	56574	
582.00			193.4	184.4	-63.9	-63.9	☑	Reflex EZ	56404	
585.00			194	185	-64	-64	☑	Reflex EZ	56465	
588.00			193.1	184.1	-63.8	-63.8	☑	Reflex EZ	56486	
591.00			194.3	185.3	-63.3	-63.3	☑	Reflex EZ	56361	
594.00			193.1	184.1	-64	-64	☑	Reflex EZ	56406	
597.00			194.6	185.6	-63.8	-63.8	☑	Reflex EZ	56133	
600.00			194	185	-63.9	-63.9	☑	Reflex EZ	56215	
603.00			194.3	185.3	-63.6	-63.6	☑	Reflex EZ	56001	
606.00			193.2	184.2	-63.7	-63.7	☑	Reflex EZ	56349	
609.00			192.5	183.5	-63.7	-63.7	☑	Reflex EZ	56261	
612.00			194.1	185.1	-63.6	-63.6	☑	Reflex EZ	56102	
615.00			193.9	184.9	-63.7	-63.7	☑	Reflex EZ	56319	
618.00			194.4	185.4	-63.7	-63.7	☑	Reflex EZ	56299	
621.00			194	185	-63.7	-63.7	☑	Reflex EZ	56142	
624.00			193.1	184.1	-63.7	-63.7	☑	Reflex EZ	56326	
627.00			193.6	184.6	-63.7	-63.7	☑	Reflex EZ	56366	
630.00			194.1	185.1	-68.7	-68.7	☑	Reflex EZ	56067	
633.00			193.7	184.7	-63.5	-63.5	☑	Reflex EZ	56502	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
636.00			190.4	181.4	-66.1	-66.1	☑	Reflex EZ	56297	
639.00			194.1	185.1	-63.6	-63.6	☑	Reflex EZ	56299	
642.00			194.8	185.8	-63.8	-63.8	☑	Reflex EZ	56453	
645.00			193.9	184.9	-63.4	-63.4	☑	Reflex EZ	56509	
648.00			193.8	184.8	-63.4	-63.4	☑	Reflex EZ	56562	
651.00			193.6	184.6	-63.5	-63.5	☑	Reflex EZ	56453	
654.00			194	185	-63.6	-63.6	☑	Reflex EZ	56454	
657.00			193.6	184.6	-63.4	-63.4	☑	Reflex EZ	56445	
660.00			194.3	185.3	-63.3	-63.3	☑	Reflex EZ	56394	
663.00			194.4	185.4	-63.4	-63.4	☑	Reflex EZ	56450	
666.00			194.7	185.7	-63.4	-63.4	☑	Reflex EZ	56394	
669.00			194.1	185.1	-63.2	-63.2	☑	Reflex EZ	56407	
672.00			193.6	184.6	-63.4	-63.4	☑	Reflex EZ	56378	
675.00			194.2	185.2	-63.4	-63.4	☑	Reflex EZ	56372	
678.00			192.7	183.7	-63.4	-63.4	☑	Reflex EZ	56225	
681.00			194.1	185.1	-63.4	-63.4	☑	Reflex EZ	56401	
684.00			194.6	185.6	-63.5	-63.5	☑	Reflex EZ	56231	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	46.45	**OB Overburden** Unknown overburden that is likely a mixtures of lowlands dirt, muskeg, pebbles glacially rounded rocks and boulders. 44.75 to 46.45 Rounded rocks of sedimentary and igneous intrusive basement from 1cmm to 15cm in diameter. Casing to 48m.							
46.45	48.67	**SED Sediment** Very fine grained limestone. Unit is turbiditic. Light tan in colour. Moderately hard to hard. Unit is broken and blocky with numerous ground pieces of core as the drilling progresses downhole into a more stable footing. Lower contact is faulted at 76 dca with unknown missing gouge.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
48.67	72.59	**SYEN Syenite** Granitic Syenite. Orange with pale pink tinge. Unit is well weathered. Several areas fractured and faulted with weathered gouge. 51.10 11deg fracture with 2mm fault gouge. 56.22 to 56.29 fault gouge at 55 dca. 59.25 to 59.56 weathered rock with malachite and/or chlorite alteration. 71.00 5cm calcite vein at 55 dca. Lower contact sharp at 35 dca.	L012661	54.00	55.00	1.00	0.01	0.01	
			L012662	55.00	56.00	1.00	0.02	0.01	
			L012663	56.00	57.00	1.00	0.05	0.06	
			L012665	57.00	58.00	1.00	0.07	0.1	2.64
			L012666	58.00	59.00	1.00	0.04	0.03	2.64
			L012667	59.00	60.00	1.00	0.04	0.02	2.62
			L012668	60.00	61.00	1.00	0.01	0.02	2.65
			L012669	61.00	62.00	1.00	0.02	0.03	
			L012670	62.00	63.00	1.00	0.03	0.02	
			L012672	63.00	64.00	1.00	0.03	0.02	
			L012673	64.00	65.00	1.00	0.03	0.01	
			L012674	65.00	66.00	1.00	0.04	0.01	
			L012676	66.00	67.00	1.00	0.03	0.01	
			L012677	67.00	68.00	1.00	0.02	0.12	
			L012678	68.00	69.00	1.00	0.04	0.02	
			L012679	69.00	70.00	1.00	0.02	0.02	
			L012680	70.00	71.00	1.00	0.07	0.07	
			L012681	71.00	72.00	1.00	0.06	0.03	
			L012682	72.00	72.59	0.59	0.1	0.02	
72.59	73.89	**MD Mafic Dyke** Very dark green mafic dyke with biotite. Unit is well weathered as previous units. 1% calcite fracture filling. Lower contact faulted with 1cm hematite gouge at 35 dca.	L012683	72.59	73.80	1.21	0.04	0.01	
			L012685	73.80	75.00	1.20	0.05	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
73.89	96.00	**SYENOP Syenite with Graphitic Overprinting** Possible overprinting. Dark grey with orange orthoclase tinge. No conductivity but unit has dark fracture filling and tinge that may be chlorite and biotite but could contain small amount of graphite. Unit is massive and fine to medium grained with a dioritic texture of 40% hornblendes, 40% plagioclase, 10% orthoclase, and 10% quartz. A salt and pepper texture. Less orthoclase suggests less granitic. Very hard. Non magnetic. 73.89 to 76.50 very strongly fractured and faulted with moderate hematite and chlorite and malachite alteration. 86 to 87 healed fractures with strong biotite. 95 to 96 strongly fractured lower contact gradational	L012686	75.00	76.00	1.00	0.02	0.01	2.6
			L012687	76.00	77.00	1.00	0.04	0.01	2.59
			L012688	77.00	78.00	1.00	0.04	0.03	2.66
			L012689	78.00	79.00	1.00	0.06	0.02	2.64
			L012690	79.00	80.00	1.00	0.03	0.02	
			L012692	80.00	81.00	1.00	0.07	0.02	
			L012693	81.00	82.00	1.00	0.05	0.03	
			L012694	82.00	83.00	1.00	0.1	0.07	
			L012696	83.00	84.00	1.00	0.11	0.08	
			L012697	84.00	85.00	1.00	0.14	0.08	
			L012698	85.00	86.00	1.00	0.64	0.07	
			L012699	86.00	87.00	1.00	0.4	0.03	
			L012700	87.00	88.00	1.00	0.23	0.01	
			L012701	88.00	89.00	1.00	0.15	0.02	
			L012702	89.00	90.00	1.00	0.19	0.13	
			L012703	90.00	91.00	1.00	0.08	0.1	
			L012705	91.00	92.00	1.00	0.05	0.05	
			L012706	92.00	93.00	1.00	0.03	0.05	
			L012707	93.00	94.00	1.00	0.09	0.04	
			L012708	94.00	95.00	1.00	0.14	0.09	
			L012709	95.00	96.00	1.00	0.05	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
96.00	- 125.09	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange and green tinge. Massive syenite. Very hard. 110.78 to 110.90 Mafic dyke at 67 dca. Unit has increased graphite content down hole. 117 to 117.50 fractured core at 0 and 155 and 20 dca. 120 to 120.60 faulted core with 3mm chlorite gouge at 42dca. Lower contact sharp at 39 dca. 111 to 112. 2mm graphite fracture filling.	L012710	96.00	97.00	1.00	0.04	0.05	
			L012712	97.00	98.00	1.00	0.1	0.03	
			L012713	98.00	99.00	1.00	0.03	0.04	
			L012714	99.00	100.00	1.00	0.03	0.03	
			L012716	100.00	101.00	1.00	0.01	0.04	2.65
			L012717	101.00	102.00	1.00	0.01	0.04	2.64
			L012718	102.00	103.00	1.00	0.01	0.01	2.64
			L012719	103.00	104.00	1.00	0.01	0.03	2.65
			L012720	104.00	105.00	1.00	0.02	0.05	
			L012721	105.00	106.00	1.00	0.03	0.07	
			L012722	106.00	107.00	1.00	0.02	0.03	
			L012723	107.00	108.00	1.00	0.26	0.14	
			L012725	108.00	109.00	1.00	0.04	0.19	
			L012726	109.00	110.00	1.00	0.1	0.15	
			L012727	110.00	111.00	1.00	0.18	0.06	
			L012728	111.00	112.00	1.00	0.01	0.05	
			L012729	112.00	113.00	1.00	0.01	0.04	
			L012730	113.00	114.00	1.00	0.01	0.02	
			L012732	114.00	115.00	1.00	0.02	0.06	
			L012733	115.00	116.00	1.00	0.01	0.03	
			L012734	116.00	117.00	1.00	0.01	0.02	
			L012736	117.00	118.00	1.00	0.02	0.05	
			L012737	118.00	119.00	1.00	0.18	0.05	
			L012738	119.00	120.00	1.00	0.5	0.03	
			L012739	120.00	121.00	1.00	0.05	0.1	
			L012740	121.00	122.00	1.00	0.04	0.11	
			L012741	122.00	123.00	1.00	0.15	0.13	
			L012742	123.00	124.00	1.00	0.4	0.17	
			L012743	124.00	125.09	1.09	0.11	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
125.09	126.29	**MD Mafic Dyke** Biotite Mafic Dyke. Dark green with abundant biotite. Moderately hard and massive. 125.60 to 125.70 ripped up syenite chunks. Lower contact sharp at 46 dca.	L012745	125.09	126.29	1.20	0.14	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
126.29	164.67	**SYENOP Syenite with Graphitic Overprinting** Light grey to dark grey with dioritic texture and with orange orthoclase tinge. Massive with local fracture filling and crackled graphite. Hard. 135.59 to 145 unit has some hematite alteration due to fractured fault at 135.59 with 2mm hematite gouge at 55dca 147.82 to 148.20 Mafic dyke. Upper contact 82 dca lower contact 45 dca. 152.25 to 152.58 Mafic dyke. Upper contact irregular lower contact cross foliation at 40 dca. Lower contact sharp at 55 dca.	L012746	126.29	127.00	0.71	0.04	0.1	
			L012747	127.00	128.00	1.00	0.36	0.31	
			L012748	128.00	129.00	1.00	0.07	0.18	
			L012749	129.00	130.00	1.00	0.16	0.22	
			L012750	130.00	131.00	1.00	0.02	0.06	
			L012752	131.00	132.00	1.00	0.01	0.05	
			L012753	132.00	133.00	1.00	0.01	0.07	
			L012754	133.00	134.00	1.00	0.01	0.14	
			L012756	134.00	135.00	1.00	0.17	0.2	
			L012757	135.00	136.00	1.00	0.15	0.28	
			L012758	136.00	137.00	1.00	0.51	0.23	
			L012759	137.00	138.00	1.00	0.21	0.09	
			L012760	138.00	139.00	1.00	0.02	0.06	
			L012761	139.00	140.00	1.00	0.02	0.1	
			L012762	140.00	141.00	1.00	0.18	0.17	
			L012763	141.00	142.00	1.00	0.03	0.05	
			L012765	142.00	143.00	1.00	0.02	0.09	
			L012766	143.00	144.00	1.00	0.13	0.11	
			L012767	144.00	145.00	1.00	0.02	0.09	
			L012768	145.00	146.00	1.00	0.01	0.05	
			L012769	146.00	147.00	1.00	0.1	0.07	
			L012770	147.00	148.20	1.20	0.2	0.2	
			L012772	148.20	149.00	0.80	0.43	0.26	
			L012773	149.00	150.00	1.00	0.21	0.2	
			L012774	150.00	151.00	1.00	0.18	0.22	
			L012776	151.00	152.00	1.00	0.28	0.19	
			L012777	152.00	153.00	1.00	1.09	0.29	
			L012778	153.00	154.00	1.00	0.83	0.32	
			L012779	154.00	155.00	1.00	0.22	0.33	
			L012780	155.00	156.00	1.00	0.32	0.25	
			L012781	156.00	157.00	1.00	1.11	0.3	
			L012782	157.00	158.00	1.00	0.21	0.23	
			L012783	158.00	159.00	1.00	0.24	0.15	
			L012785	159.00	160.00	1.00	0.12	0.17	
			L012786	160.00	161.00	1.00	0.03	0.1	
			L012787	161.00	162.00	1.00	0.07	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			L012788	162.00	163.00	1.00	0.7	0.26	
			L012789	163.00	164.00	1.00	0.31	0.23	
			L012790	164.00	164.67	0.67	0.08	0.17	
164.67	166.19	**MD Mafic Dyke** Dark green biotite mafic dyke. Moderately hard. Weakly foliated at 45 dca. 1-2% calcite and chlorite fracture filling and slightly crackled. 165.90 to 166.00 fault with strong hematite at 35 dca. Lower contact fractured at 30 dca.	L012792	164.67	165.50	0.83	0.46	0.08	
			L012793	165.50	166.19	0.69	0.75	0.26	
166.19	168.48	**SYENOP Syenite with Graphitic Overprinting** Weak to moderate graphite overprinting. Massive. Moderate hematite alteration. Hard. 166.48 to 166.53 Mafic Dyke at 55 dca. 166.68 to 166.73 mafic dyke at 50 dca. Lower contact at 32 dca.	L012794	166.19	167.00	0.81	0.25	0.16	
			L012796	167.00	168.48	1.48	0.19	0.24	
168.48	169.75	**MD Mafic Dyke** Dark green Mafic Dyke. Poorly foliated at 50 dca. Lower contact at 52 dca.	L012797	168.48	169.75	1.27	0.29	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
169.75	219.80	**SYENOP Syenite with Graphitic Overprinting** Light grey to dark grey. Weakly to locally moderate graphite fracture filling. I suspect more but some areas are non conductive. Massive. Grading towards a diorite? Local quartz flooding. Unit is far less orange and pink than previous units. Hard. 184.72 to 185.52 Felsic intrusive. Medium grained with stretched k-spar clasts(?) or boudins. Upper contact sharp at 57 dca lower contact sharp at 48 dca. 198 to 198.40 fractured core 210 to 219.80 weak to moderate hematite. 211.50 to 212.8 strongly fractured from 30 to 55 dca. Lower contact irregular at 155 dca.							
			L012798	169.75	171.00	1.25	0.18	0.21	
			L012799	171.00	172.00	1.00	0.03	0.09	
			L012800	172.00	173.00	1.00	0.02	0.1	
			L012801	173.00	174.00	1.00	0.01	0.15	
			L012802	174.00	175.00	1.00	0.07	0.14	
			L012803	175.00	176.00	1.00	0.05	0.2	
			L012805	176.00	177.00	1.00	0.06	0.24	
			L012806	177.00	178.00	1.00	0.06	0.14	
			L012807	178.00	179.00	1.00	0.06	0.19	
			L012808	179.00	180.00	1.00	0.56	0.32	
			L012809	180.00	181.00	1.00	0.09	0.25	
			L012810	181.00	182.00	1.00	0.05	0.17	
			L012812	182.00	183.00	1.00	0.25	0.3	
			L012813	183.00	184.00	1.00	0.02	0.11	
			L012814	184.00	184.72	0.72	0.16	0.19	
			L012816	184.72	185.52	0.80	0.1	0.15	
			L012817	185.52	186.00	0.48	0.39	0.31	
			L012818	186.00	187.00	1.00	0.09	0.27	
			L012819	187.00	188.00	1.00	0.19	0.26	
			L012820	188.00	189.00	1.00	0.06	0.26	
			L012821	189.00	190.00	1.00	0.07	0.21	
			L012822	190.00	191.00	1.00	0.11	0.19	
			L012823	191.00	192.00	1.00	0.04	0.11	
			L012825	192.00	193.00	1.00	0.02	0.05	2.64
			L012826	193.00	194.00	1.00	0.1	0.16	2.64
			L012827	194.00	195.00	1.00	0.09	0.16	2.65
			L012828	195.00	196.00	1.00	0.05	0.2	2.65
			L012829	196.00	197.00	1.00	0.05	0.11	
			L012830	197.00	198.00	1.00	0.06	0.15	
			L012832	198.00	199.00	1.00	0.06	0.16	
			L012833	199.00	200.00	1.00	0.14	0.22	
			L012834	200.00	201.00	1.00	0.2	0.23	
			L012836	201.00	202.00	1.00	0.14	0.37	
			L012837	202.00	203.00	1.00	0.23	0.21	
			L012838	203.00	204.00	1.00	0.23	0.25	
			L012839	204.00	205.00	1.00	0.15	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			L012840	205.00	206.00	1.00	0.07	0.17	
			L012841	206.00	207.00	1.00	0.05	0.15	
			L012842	207.00	208.00	1.00	0.1	0.2	
			L012843	208.00	209.00	1.00	0.02	0.07	
			L012845	209.00	210.00	1.00	0.32	0.2	
			L012846	210.00	211.00	1.00	0.37	0.25	
			L012847	211.00	212.00	1.00	0.16	0.18	
			L012848	212.00	213.00	1.00	1.08	0.24	
			L012849	213.00	214.00	1.00	0.59	0.27	
			L012850	214.00	215.00	1.00	0.31	0.13	
			L012852	215.00	216.00	1.00	1.57	0.22	
			L012853	216.00	217.00	1.00	0.29	0.17	
			L012854	217.00	218.00	1.00	0.3	0.18	
			L012856	218.00	219.00	1.00	0.14	0.15	
			L012857	219.00	219.80	0.80	0.22	0.12	
219.80	- 227.13	**MD Mafic Dyke**							
		Dark green. Moderately hard mostly massive with weak foliation of biotite. Fine to medium grained. 221.77 to 221.94 syenite dyke at 64 dca. 222.08 to 222.24 syenite dyke at 76 dca. 222.73 to 222.77 syenite dyke at 67 dca. 226.64 to 226.68 syenite dyke at 126 dca. Lower contact crenulated with some graphite at 61 dca.	L012858	219.80	221.00	1.20	0.09	0.06	
			L012859	221.00	222.00	1.00	0.08	0.14	2.94
			L012860	222.00	223.00	1.00	0.1	0.09	2.93
			L012861	223.00	224.00	1.00	0.12	0.08	2.99
			L012862	224.00	225.00	1.00	0.12	0.22	2.88
			L012863	225.00	226.00	1.00	0.19	0.15	
			L012865	226.00	227.13	1.13	0.24	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
227.13	283.50	**GRDROP Granodiorite with Graphitic Overprinting** Light to dark grey with dioritic texture of 40/40 amphiboles and plagioclase with 10% orange-pink orthoclase.. Local graphite overprinting with more graphite veinlets and or brecciations (~1-2cm) than previous units. Massive and hard to very hard. 235.53 to 235.72 mafic dyke at 66 dca. Possible diorite. Very dark green with vuggy quartz eyes and coarse texture of amphiboles and plag/quartz. Massive 279.05 to 279.20 Healed fault that is strongly fractured at 25 dca with strong hematite. Lower contact at 40 dca.							
			L012866	227.13	228.00	0.87	0.58	0.25	
			L012867	228.00	229.00	1.00	0.07	0.16	
			L012868	229.00	230.00	1.00	0.14	0.25	
			L012869	230.00	231.00	1.00	0.16	0.22	
			L012870	231.00	232.00	1.00	0.03	0.11	
			L012872	232.00	233.00	1.00	0.16	0.23	
			L012873	233.00	234.00	1.00	0.14	0.19	
			L012874	234.00	235.00	1.00	0.07	0.14	
			L012876	235.00	236.00	1.00	0.03	0.17	
			L012877	236.00	237.00	1.00	0.21	0.28	
			L012878	237.00	238.00	1.00	0.5	0.32	
			L012879	238.00	239.00	1.00	0.17	0.32	
			L012880	239.00	240.00	1.00	0.04	0.21	
			L012881	240.00	241.00	1.00	0.05	0.18	
			L012882	241.00	242.00	1.00	0.41	0.26	
			L012883	242.00	243.00	1.00	0.78	0.31	
			L012885	243.00	244.00	1.00	0.21	0.28	
			L012886	244.00	245.00	1.00	0.18	0.25	
			L012887	245.00	246.00	1.00	0.6	0.35	
			L012888	246.00	247.00	1.00	0.11	0.3	
			L012889	247.00	248.00	1.00	0.04	0.26	
			L012890	248.00	249.00	1.00	0.06	0.21	
			L012892	249.00	250.00	1.00	0.02	0.14	
			L012893	250.00	251.00	1.00	0.04	0.19	
			L012894	251.00	252.00	1.00	0.34	0.23	
			L012896	252.00	253.00	1.00	0.1	0.18	
			L012897	253.00	254.00	1.00	0.1	0.2	
			L012898	254.00	255.00	1.00	0.17	0.19	
			L012899	255.00	256.00	1.00	0.14	0.25	
			L012900	256.00	257.00	1.00	0.13	0.27	
			L012901	257.00	258.00	1.00	0.1	0.24	
			L012902	258.00	259.00	1.00	0.13	0.21	
			L012903	259.00	260.00	1.00	0.21	0.21	
			L012905	260.00	261.00	1.00	0.58	0.42	
			L012906	261.00	262.00	1.00	0.37	0.22	
			L012907	262.00	263.00	1.00	0.07	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			L012908	263.00	264.00	1.00	0.08	0.24	
			L012909	264.00	265.00	1.00	0.64	0.27	
			L012910	265.00	266.00	1.00	0.12	0.24	
			L012912	266.00	267.00	1.00	0.08	0.22	
			L012913	267.00	268.00	1.00	0.06	0.21	
			L012914	268.00	269.00	1.00	0.07	0.22	
			L012916	269.00	270.00	1.00	0.13	0.27	
			L012917	270.00	271.00	1.00	0.2	0.25	
			L012918	271.00	272.00	1.00	0.07	0.22	
			L012919	272.00	273.00	1.00	0.34	0.28	
			L012920	273.00	274.00	1.00	0.04	0.19	
			L012921	274.00	275.00	1.00	0.19	0.31	
			L012922	275.00	276.00	1.00	0.63	0.32	
			L012923	276.00	277.00	1.00	0.21	0.3	
			L012925	277.00	278.00	1.00	0.53	0.36	
			L012926	278.00	279.00	1.00	0.16	0.28	
			L012927	279.00	280.00	1.00	0.24	0.27	
			L012928	280.00	281.00	1.00	0.09	0.15	
			L012929	281.00	282.00	1.00	0.06	0.25	
			L012930	282.00	283.50	1.50	0.1	0.32	
283.50	289.36	**MD Mafic Dyke** Dark green biotite mafic dyke. Weakly foliated at 40 dca. Moderately hard mostly massive. 285.65 to 287.49 45% syenite chunks cutting into unit or remnants of original gneiss. 287.62 to 287.79 gneiss at 45 dca. Lower contact at 57 dca.	L012932	283.50	285.00	1.50	0.42	0.18	
			L012933	285.00	286.00	1.00	0.16	0.12	
			L012934	286.00	287.00	1.00	0.27	0.07	
			L012936	287.00	288.00	1.00	0.12	0.08	
			L012937	288.00	289.36	1.36	0.19	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
289.36	294.40	**FD Felsic Dyke** Mixture of aphanitic and medium grained felsic intrusives orthoclase porphyries (dyke swarm). Very hard. Lower contact irregular at 10 dca.	L012938	289.36	290.00	0.64	0.01	0.02	
			L012939	290.00	291.00	1.00	0.02	0.04	2.67
			L012940	291.00	292.00	1.00	0.03	0.06	2.63
			L012941	292.00	293.00	1.00	0.04	0.04	2.66
			L012942	293.00	294.40	1.40	0.02	0.07	2.65
294.40	296.69	**MD Mafic Dyke** Dark green fine grained mafic dyke. Lower contact at 47 dca.	L012943	294.40	295.50	1.10	0.29	0.19	
			L012945	295.50	296.69	1.19	0.29	0.23	
296.69	297.93	**SYEN Syenite** Distorted gneiss unit with some biotite fracture filling.	L012946	296.69	297.93	1.24	0.41	0.13	
297.93	300.03	**FD Felsic Dyke** As previous felsic intrusive with a mixture of aphanitic to porphyritic textures as dykes swarm.	L012947	297.93	299.00	1.07	0.01	0.04	
			L012948	299.00	300.03	1.03	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
300.03	303.00	**ID Intermediate Dyke** Medium grained. Olive green with 50/50 amphiboles and feldspar. Massive and very hard. 3 different dykes within this unit. 300.83 to 302.02 Intermediate dyke Upper contact at 49 dca. 302.02 to 303.00 Intermediate dyke. Upper contact at 58 dca. Lower contact at 60 dca.	L012949	300.03	301.00	0.97	0.01	0.04	
			L012950	301.00	302.02	1.02	0.01	0.03	
			L012952	302.02	303.00	0.98	0.01	0.06	
303.00	304.10	**SYEN Syenite** Medium grained. Massive. Hard.	L012953	303.00	304.10	1.10	0.13	0.27	
304.10	307.56	**MD Mafic Dyke** Dark green with biotite. Moderately hard mostly massive with weak biotite foliation at 40 dca. Lower contact cut by lower unit at 129 dca.	L012954	304.10	305.00	0.90	0.18	0.1	
			L012956	305.00	306.00	1.00	0.19	0.05	
			L012957	306.00	307.56	1.56	0.26	0.13	
307.56	316.40	**FD Felsic Dyke** Very fine grained very hard glassy felsic dyke. Dark blue to black. Other dykes within this dyke unit. 310.78 to 311.97 syenitic dyke. At 60 dca contacts. 313.00 to 314.20 Fractured and faulted with 1-2% calcite fracture filling. 313.50 to 313.20 5mm fault gouge at 17 dca. 314.00 to 314.87 very dark orange dyke with large plagioclase spinifex. Lower contact at 30 dca. Lower contact sharp at 65 dca.	L012958	307.56	308.50	0.94	0.01	0.06	
			L012959	308.50	309.50	1.00	0.02	0.25	
			L012960	309.50	310.50	1.00	0.02	0.13	
			L012961	310.50	311.50	1.00	0.28	0.21	
			L012962	311.50	312.50	1.00	0.08	0.11	
			L012963	312.50	313.50	1.00	0.03	0.08	
			L012965	313.50	314.50	1.00	0.02	0.13	
			L012966	314.50	315.50	1.00	0.02	0.09	
			L012967	315.50	316.40	0.90	0.03	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
316.40	324.40	**SYENOP Syenite with Graphitic Overprinting** Orange to dark grey massive gneiss very hard. Weak graphite near end of unit. 323.00 to 324.40 strongly fractured with broken blocky core. Lower contact at 45 dca.	L012968	316.40	317.00	0.60	0.16	0.11	
			L012969	317.00	318.00	1.00	0.2	0.16	
			L012970	318.00	319.00	1.00	0.65	0.19	
			L012972	319.00	320.00	1.00	0.51	0.17	
			L012973	320.00	321.00	1.00	0.29	0.2	
			L012974	321.00	322.00	1.00	0.04	0.13	
			L012976	322.00	323.00	1.00	0.15	0.19	
			L012977	323.00	324.40	1.40	0.3	0.12	
324.40	328.58	**ID Intermediate Dyke** Fine to medium grained intrusive. Massive. Very hard. Light green with olive green tinge. Unit is strongly fractured and brittle. Glassy. Lower contact at 57 dca.	L012978	324.40	325.50	1.10	0.03	0.16	
			L012979	325.50	326.50	1.00	0.01	0.15	
			L012980	326.50	327.50	1.00	0.03	0.1	
			L012981	327.50	328.58	1.08	0.02	0.08	
328.58	335.36	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey with orange tinge of orthoclase. Weak graphite overprinting. Hard and massive. 329 to 330 strongly fractured. Lower contact at 57 dca.	L012982	328.58	330.00	1.42	0.19	0.08	
			L012983	330.00	331.00	1.00	0.15	0.21	
			L012985	331.00	332.00	1.00	0.29	0.18	
			L012986	332.00	333.00	1.00	0.35	0.15	
			L012987	333.00	334.00	1.00	0.68	0.13	
			L012988	334.00	335.36	1.36	0.2	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
335.36	336.47	**FD Felsic Dyke** Dark grey to dark blue glassy very fine grained felsic dyke. Lower contact at 59 dca.	L012989	335.36	336.47	1.11	0.01	0.08	
336.47	341.03	**SYEN Syenite** Light grey to dark grey with orange orthoclase tinge. Lower contact at 40 dca.	L012990	336.47	338.00	1.53	0.18	0.16	
			L012992	338.00	339.00	1.00	0.86	0.21	
			L012993	339.00	340.00	1.00	0.47	0.15	
			L012994	340.00	341.03	1.03	0.3	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
341.03	370.25	**ID Intermediate Dyke** Fine to medium grained. Light to dark green. Massive with dioritic texture of amphiboles and feldspar. 347.70 to 348.67 Felsic dyke. Upper contact at 31 dca. Lower contact at 49 dca. Lower contact at 55 dca.	L012996	341.03	342.00	0.97	0.05	0.09	
			L012997	342.00	343.00	1.00	0.03	0.02	
			L012998	343.00	344.00	1.00	0.02	0.02	
			L012999	344.00	345.00	1.00	0.03	0.01	
			L013000	345.00	346.00	1.00	0.02	0.01	
			N473001	346.00	347.00	1.00	0.02	0.005	
			N473002	347.00	347.70	0.70	0.02	0.04	
			N473003	347.70	348.67	0.97	0.02	0.04	
			N473005	348.67	350.00	1.33	0.02	0.03	
			N473006	350.00	351.00	1.00	0.02	0.03	
			N473007	351.00	352.00	1.00	0.02	0.03	
			N473008	352.00	353.00	1.00	0.03	0.04	
			N473009	353.00	354.00	1.00	0.02	0.03	
			N473010	354.00	355.50	1.50	0.03	0.005	
			N473012	355.50	357.00	1.50	0.02	0.04	
			N473013	357.00	358.50	1.50	0.01	0.03	
			N473014	358.50	360.00	1.50	0.03	0.04	
			N473016	360.00	361.50	1.50	0.02	0.07	
			N473017	361.50	363.00	1.50	0.02	0.06	
			N473018	363.00	364.50	1.50	0.03	0.07	
			N473019	364.50	366.00	1.50	0.02	0.04	
			N473020	366.00	367.50	1.50	0.02	0.03	
			N473021	367.50	369.00	1.50	0.03	0.04	
			N473022	369.00	370.25	1.25	0.02	0.04	
370.25	371.67	**FD Felsic Dyke** Dark grey to dark blue glassy very fine grained felsic dyke. Lower contact at 41 dca.	N473023	370.25	371.67	1.42	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
371.67	393.00	**MD Mafic Dyke** Massive medium grained mafic to intermediate intrusive. Likely a gabbro or diabase but lacks coarse grains or magnetite associated with those rock types. Massive with dioritic texture of amphiboles and feldspar. Lower contact at 50 dca.	N473025	371.67	373.00	1.33	0.02	0.06	
			N473026	373.00	374.50	1.50	0.02	0.05	
			N473027	374.50	376.00	1.50	0.02	0.05	
			N473028	376.00	377.50	1.50	0.03	0.15	
			N473029	377.50	379.00	1.50	0.03	0.09	
			N473030	379.00	380.50	1.50	0.03	0.06	
			N473032	380.50	382.00	1.50	0.02	0.08	
			N473033	382.00	383.50	1.50	0.02	0.05	
			N473034	383.50	385.00	1.50	0.01	0.11	
			N473036	385.00	386.50	1.50	0.01	0.02	
			N473037	386.50	388.00	1.50	0.01	0.02	
			N473038	388.00	389.50	1.50	0.01	0.02	
			N473039	389.50	391.00	1.50	0.01	0.02	
			N473040	391.00	392.00	1.00	0.02	0.04	
			N473041	392.00	393.00	1.00	0.01	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
393.00	423.30	**SYENOP Syenite with Graphitic Overprinting** Dark grey to very dark grey with orange orthoclase bands. Massive with local brecciated graphite beds. Very hard. 411.00 to 411.70 strongly fractured possible fault zone. 421.20 to 423.00 strongly fractured. Lower contact at 90 dca.	N473042	393.00	394.00	1.00	3.66	0.21	
			N473043	394.00	395.00	1.00	5.15	0.3	
			N473045	395.00	396.00	1.00	1.96	0.33	
			N473046	396.00	397.00	1.00	8.08	0.49	
			N473047	397.00	398.00	1.00	3.63	0.28	
			N473048	398.00	399.00	1.00	4.72	0.33	
			N473049	399.00	400.00	1.00	7.43	0.63	
			N473050	400.00	401.00	1.00	1.69	0.16	
			N473052	401.00	402.00	1.00	1.02	0.13	
			N473053	402.00	403.00	1.00	0.51	0.13	
			N473054	403.00	404.00	1.00	0.65	0.09	
			N473056	404.00	405.00	1.00	0.3	0.13	
			N473057	405.00	406.00	1.00	0.95	0.24	
			N473058	406.00	407.00	1.00	1.77	0.22	
			N473059	407.00	408.00	1.00	4.76	0.71	
			N473060	408.00	409.00	1.00	4.26	0.23	
			N473061	409.00	410.00	1.00	5.45	0.16	
			N473062	410.00	411.00	1.00	1.34	0.11	
			N473063	411.00	412.00	1.00	2.26	0.11	
			N473065	412.00	413.00	1.00	0.53	0.03	
			N473066	413.00	414.00	1.00	0.32	0.05	
			N473067	414.00	415.00	1.00	1.66	0.11	
			N473068	415.00	416.00	1.00	3.72	0.19	
			N473069	416.00	417.00	1.00	0.46	0.06	
			N473070	417.00	418.00	1.00	0.28	0.12	
			N473072	418.00	419.00	1.00	4.2	0.19	
			N473073	419.00	420.00	1.00	3.07	0.26	
			N473074	420.00	421.00	1.00	0.95	0.17	
			N473076	421.00	422.00	1.00	0.32	0.1	
			N473077	422.00	423.30	1.30	0.18	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
423.30	437.61	**ID Intermediate Dyke** Massive medium grained mafic to intermediate intrusive. Local felsic intrusive beds intertwined with primary unit. Very hard. Massive with dioritic texture of amphiboles and feldspar. Lower contact at 90 dca.	N473078	423.30	424.00	0.70	0.05	0.04	
			N473079	424.00	425.50	1.50	0.03	0.03	
			N473080	425.50	427.00	1.50	0.02	0.04	
			N473081	427.00	428.50	1.50	0.04	0.08	
			N473082	428.50	430.00	1.50	0.03	0.16	
			N473083	430.00	431.50	1.50	0.03	0.14	
			N473085	431.50	433.00	1.50	0.03	0.16	
			N473086	433.00	434.50	1.50	0.02	0.15	
			N473087	434.50	436.00	1.50	0.02	0.58	
			N473088	436.00	437.00	1.00	0.03	0.81	
			N473089	437.00	437.61	0.61	0.03	0.9	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
437.61	460.58	**SYENOP Syenite with Graphitic Overprinting** Dark grey to very dark grey with orange orthoclase bands. Massive with local brecciated graphite beds. From 440.15 to 440.5 breccia section with moderate to strong conductivity; graphite veinlets. Very hard. 448.5-448.9 blocky core angular fragments 2-5cm.	N473090	437.61	438.52	0.91	1.12	0.18	
			N473092	438.52	439.00	0.48	0.4	0.09	
			N473093	439.00	440.00	1.00	0.62	0.16	
			N473094	440.00	441.00	1.00	2.68	0.39	
			N473096	441.00	442.00	1.00	0.45	0.13	
			N473097	442.00	443.00	1.00	0.28	0.1	
			N473098	443.00	444.00	1.00	0.29	0.12	
			N473099	444.00	445.00	1.00	0.4	0.11	
			N473100	445.00	446.00	1.00	0.38	0.14	
			N473101	446.00	447.00	1.00	0.3	0.14	
			N473102	447.00	448.00	1.00	0.26	0.23	
			N473103	448.00	449.00	1.00	0.16	0.12	
			N473105	449.00	450.00	1.00	0.18	0.14	
			N473106	450.00	451.30	1.30	0.15	0.18	
			N473107	451.30	451.85	0.55	0.05	0.1	
			N473108	451.85	453.00	1.15	0.14	0.17	
			N473109	453.00	454.00	1.00	0.14	0.2	
			N473110	454.00	455.00	1.00	0.15	0.09	
			N473112	455.00	456.00	1.00	0.24	0.34	
			N473113	456.00	457.00	1.00	0.22	0.36	
			N473114	457.00	458.00	1.00	0.13	0.07	
			N473116	458.00	459.00	1.00	0.17	0.05	
			N473117	459.00	459.80	0.80	0.29	0.19	
			N473118	459.80	460.58	0.78	0.31	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
460.58	483.00	**GRPBX Graphitic Breccia - Mineralized** Medium to dark grey graphite breccia. Upper contact sharp at 47 dca. Angular syenite fragments of variable size from 1cm up 20cm or larger in a graphite bearing black matrix. One or two m long. Overall good graphite content syenite sections from 461.8 to 463 and from 471.9 to 472.6. Could be boulder size fragments? Trace pyrite on fracture faces at 464.7. 474-478 few pale pink syenite fragments 15-40cm long.	N473119	460.58	461.53	0.95	3.1	0.08	
			N473120	461.53	462.50	0.97	2.25	0.21	
			N473121	462.50	463.20	0.70	4.45	0.09	
			N473122	463.20	464.00	0.80	3.55	0.05	
			N473123	464.00	465.00	1.00	5.7	0.35	
			N473125	465.00	466.00	1.00	5.58	0.34	2.78
			N473126	466.00	467.00	1.00	3.06	0.28	2.64
			N473127	467.00	468.00	1.00	6.54	0.28	2.64
			N473128	468.00	469.00	1.00	4.78	0.25	2.61
			N473129	469.00	470.00	1.00	4.57	0.26	
			N473130	470.00	471.00	1.00	8.67	0.32	
			N473132	471.00	472.00	1.00	3.06	0.28	
			N473133	472.00	473.00	1.00	4.01	0.27	
			N473134	473.00	474.00	1.00	8.03	0.2	
			N473136	474.00	475.00	1.00	6.54	0.16	
			N473137	475.00	476.00	1.00	5	0.34	
			N473138	476.00	477.00	1.00	6.82	0.46	
			N473139	477.00	478.00	1.00	3.8	0.25	
			N473140	478.00	479.00	1.00	7.13	0.18	
			N473141	479.00	480.00	1.00	15.4	0.4	
			N473142	480.00	481.00	1.00	9.57	0.35	
			N473143	481.00	482.00	1.00	8.88	0.17	
			N473145	482.00	483.05	1.05	7.41	0.26	
483.00	485.50	**SYENOP Syenite with Graphitic Overprinting** Greenish-pinkish greyish, fine to medium grained felsic intrusive. Both contacts 80 dca. Hard to very hard. Shotgun 1mm black amphibole for~ 40cm at the centre of the unit. Moderately conductive near the lower contact where hairline fracture filing black veinlets.	N473146	483.05	484.30	1.25	0.06	0.18	
			N473147	484.30	485.50	1.20	1.51	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
485.50	520.50	**GRPBX Graphitic Breccia - Mineralized** Medium to dark grey angular fragments in black fine grained graphite bearing matrix. (3-5% graphite). Good to very good conductivity from 495.75 to 499.45 and from 500.56 to 508.2. Few syenite sections from 492 to 492.6 and from 499.45 to 500.56. These sections are medium grained, dark grey with pinkish bands and light greenish tinge locally.	N473148	485.50	486.25	0.75	8.91	0.31	
			N473149	486.25	487.00	0.75	8.87	0.32	
			N473150	487.00	488.00	1.00	7.45	0.31	
			N473152	488.00	489.00	1.00	5.49	0.29	
			N473153	489.00	490.00	1.00	5.98	0.26	
			N473154	490.00	491.00	1.00	7.13	0.24	
			N473156	491.00	492.00	1.00	10.75	0.22	
			N473157	492.00	493.00	1.00	4.12	0.19	
			N473158	493.00	494.00	1.00	4.87	0.3	
			N473159	494.00	494.85	0.85	6.96	0.32	
			N473160	494.85	495.75	0.90	0.05	0.07	
			N473161	495.75	497.00	1.25	5.25	0.16	
			N473162	497.00	498.00	1.00	8.91	0.28	
			N473163	498.00	498.87	0.87	6.1	0.27	
			N473165	498.87	499.45	0.58	6.78	0.48	
			N473166	499.45	500.56	1.11	0.87	0.45	
			N473167	500.56	501.25	0.69	2.62	0.09	
			N473168	501.25	502.00	0.75	5.85	0.15	
			N473169	502.00	503.00	1.00	9.62	0.78	
			N473170	503.00	504.00	1.00	6.74	0.24	
			N473172	504.00	505.00	1.00	5.5	0.17	
			N473173	505.00	506.00	1.00	10.7	0.21	
			N473174	506.00	507.00	1.00	7.45	0.28	
			N473176	507.00	508.20	1.20	4.92	0.17	
			N473177	508.20	509.20	1.00	0.21	0.2	
			N473178	509.20	510.10	0.90	0.02	0.03	
			N473179	510.10	511.00	0.90	2.92	0.15	
			N473180	511.00	512.00	1.00	2.93	0.6	
			N473181	512.00	513.00	1.00	5.29	0.57	
			N473182	513.00	514.15	1.15	11.25	0.21	
			N473183	514.15	515.55	1.40	0.55	0.2	
			N473185	515.55	516.38	0.83	8.57	0.04	
			N473186	516.38	517.33	0.95	4.27	0.15	
			N473187	517.33	518.15	0.82	9.33	0.21	
			N473188	518.15	519.30	1.15	5.49	0.31	
			N473189	519.30	520.50	1.20	8.98	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
520.50 -	522.83	**SYENOP Syenite with Graphitic Overprinting** Dark grey, medium grained felsic intrusive. Weak gneissic banding. Very hard. No visible graphite. 520.9-521.3 dark grey, fine grained biotite rich section, intermediate dyke. Slightly softer than syenite. UC at 20 dca. LC at 30dca.	N473190	520.50	521.60	1.10	1.13	0.21	
			N473192	521.60	522.83	1.23	0.13	0.46	
522.83 -	531.87	**GRPBX Graphitic Breccia - Mineralized** Dark grey, fine grained fragments in black matrix. Graphite as fracture filling veinlets and in the matrix. Good graphite content from 530 to 531.87 as graphitic veins and graphitic flooding. Weak to locally strongly magnetic (530.3m) from 530 to 531.87. Trace pyrite at 530.3m. Lower contact sharp at 60 dca.	N473193	522.83	523.90	1.07	2.36	0.41	
			N473194	523.90	525.00	1.10	2.15	0.46	
			N473196	525.00	525.70	0.70	5.31	0.37	
			N473197	525.70	526.90	1.20	3.68	0.47	
			N473198	526.90	528.00	1.10	2.79	0.43	
			N473199	528.00	529.05	1.05	0.86	0.38	
			N473200	529.05	530.00	0.95	3.33	0.32	
			N473201	530.00	531.00	1.00	9.9	0.8	
			N473202	531.00	531.87	0.87	7.74	0.26	
531.87 -	537.10	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained syenite with weak gneissic banding. Very hard. Weakly magnetic. Lower contact at 70 dca. No visible graphite. Not conductive. From 535.5 to 535.85 greenish-grey, fine grained biotite, intermediate dyke.	N473203	531.87	533.00	1.13	0.69	0.36	
			N473205	533.00	534.00	1.00	0.22	0.28	
			N473206	534.00	535.00	1.00	0.62	0.34	
			N473207	535.00	536.00	1.00	0.78	0.19	
			N473208	536.00	537.10	1.10	0.64	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
537.10	545.52	**GRPBX Graphitic Breccia - Mineralized** Graphitic breccia. Medium to dark grey angular fragments in very dark grey to black, graphite bearing matrix. Broken core angular fragments from 539.3 to 540m. Trace pyrite as veinlets and occasional blebs at 537.5m. Locally weak to very weakly magnetic. Moderate conductivity and graphite content from upper contact to 539.4 and from 540.5 to the lower contact. Lower contact sharp at 60 dca.	N473209	537.10	538.00	0.90	9.03	0.49	
			N473210	538.00	539.00	1.00	6.3	0.4	
			N473212	539.00	540.00	1.00	4.11	0.21	
			N473213	540.00	541.00	1.00	5.69	0.31	
			N473214	541.00	542.00	1.00	10.1	0.23	
			N473216	542.00	543.00	1.00	6.81	0.47	
			N473217	543.00	543.90	0.90	9.18	0.45	
			N473218	543.90	544.70	0.80	8.09	0.56	
			N473219	544.70	545.52	0.82	7.34	0.48	
545.52	553.20	**SYENSL Syenite Sill (unmineralized)** Medium grey, massive with a light green tinge from upper contact to 550.10m. This section is fine to medium grained with euhedral 1-3mm plagioclase plus biotite, "gabbroic texture". Non magnetic. From 550.1 to 553.2 same texture but finer grained, slightly harder and darker grey colour. Broken core, angular chips from 550.7 to 551.45. Fault zone? The fragments are rough and angular, no fault gouge. Lower contact sharp at 60 dca.	N473220	545.52	546.50	0.98	0.05	0.13	
			N473221	546.50	547.50	1.00	0.03	0.02	
			N473222	547.50	548.50	1.00	0.02	0.03	
			N473223	548.50	549.50	1.00	0.03	0.03	
			N473225	549.50	550.70	1.20	0.03	0.03	
			N473226	550.70	552.00	1.30	0.02	0.03	
			N473227	552.00	553.20	1.20	0.03	0.03	
553.20	555.80	**SYENOP Syenite with Graphitic Overprinting** Dark grey, fine grained, massive syenite. Weak gneissic banding and very weakly magnetic. No visible graphite. Moderately conductive black veinlets near the lower contact.	N473228	553.20	554.00	0.80	0.89	0.6	
			N473229	554.00	554.90	0.90	0.83	0.78	
			N473230	554.90	555.80	0.90	0.9	0.77	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
555.80	556.80	**GRPBX Graphitic Breccia - Mineralized** Dark grey, weak to moderate conductive graphitic breccia. Syenite fragments in graphite bearing, fine gained, black matrix.	N473232	555.80	556.80	1.00	6.54	0.39	
556.80	563.05	**SYENOP Syenite with Graphitic Overprinting** Dark grey, medium grained syenite with moderate gneissic banding at 45 dca. No visible graphite.	N473233	556.80	558.25	1.45	0.15	0.39	
			N473234	558.25	559.10	0.85	0.02	0.05	
			N473236	559.10	560.00	0.90	0.01	0.04	
			N473237	560.00	560.80	0.80	0.04	0.04	
			N473238	560.80	562.00	1.20	0.25	0.31	
			N473239	562.00	563.05	1.05	0.21	0.55	
563.05	564.48	**GRPBX Graphitic Breccia - Mineralized** Medium to dark grey, fracture filling graphite veinlets and graphite blebs. Moderately to strongly conductive. Upper contact at 70 dca. Lower contact at 80 dca.	N473240	563.05	563.75	0.70	6.47	0.49	
			N473241	563.75	564.48	0.73	0.75	0.08	
564.48	569.50	**ID Intermediate Dyke** Medium grey with a light greenish tinge, fine grained intermediate dyke. Diabase? More fine grained biotite from 567.5 to 568.5. 566.95 to 567.45 dense quartz-carbonate veining, dark grey to black, very fine grained. Minor fault gouge along fractures. Fault zone at 90 dca. Lower contact of this unit sharp at 35 dca.	N473242	564.48	565.70	1.22	5.69	0.33	
			N473243	565.70	566.95	1.25	0.06	0.19	
			N473245	566.95	567.45	0.50	0.69	0.2	
			N473246	567.45	568.50	1.05	1.11	0.24	
			N473247	568.50	569.50	1.00	0.15	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
569.50	579.20	**GR Granite** Medium grey to pinkish grey, massive, felsic intrusive. Granophyric texture. Fine grained granite. Lower contact sharp at 55 dca.	N473248	569.50	570.50	1.00	0.05	0.09	2.68
			N473249	570.50	571.50	1.00	0.01	0.04	2.72
			N473250	571.50	572.50	1.00	0.01	0.08	2.69
			N473252	572.50	573.50	1.00	0.02	0.03	
			N473253	573.50	574.50	1.00	0.04	0.03	
			N473254	574.50	576.00	1.50	0.02	0.03	
			N473256	576.00	577.00	1.00	0.03	0.02	
			N473257	577.00	578.00	1.00	0.02	0.03	
			N473258	578.00	579.20	1.20	0.02	0.03	
579.20	580.85	**FDOP Felsic Dyke with Graphitic Overprinting** Greenish grey, fine grained massive, felsic to intermediate dyke. Hairline fracture filling black, graphite veinlets, moderately conductive from 579.5 to 579.8.	N473259	579.20	579.90	0.70	0.03	0.06	
			N473260	579.90	580.85	0.95	0.03	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
580.85	596.00	**GRPBX Graphitic Breccia - Mineralized** Medium to dark grey graphite breccia. Weakly to moderately conductive from upper contact to 582.35. Graphite flooding and graphite veinlets in the matrix. Odd white fractured feldspathic fragment 5cm in size at 586.8. Trace pyrite at 587.9m. Irregular, pink, 3cm thick, granitic dyke sub parallel to core axis from 591.5 to 592.75. Lower contact sharp at 55 dca.	N473261	580.85	582.35	1.50	3.94	0.03	
			N473262	582.35	583.50	1.15	0.01	0.04	
			N473263	583.50	584.30	0.80	0.07	0.17	
			N473265	584.30	585.20	0.90	0.06	0.06	
			N473266	585.20	586.10	0.90	8.78	0.38	
			N473267	586.10	587.30	1.20	0.98	0.34	
			N473268	587.30	588.25	0.95	9.35	1.49	
			N473269	588.25	589.30	1.05	11.7	0.64	
			N473270	589.30	590.20	0.90	6.68	0.2	
			N473272	590.20	591.10	0.90	1.55	0.21	
			N473273	591.10	592.10	1.00	4	0.12	
			N473274	592.10	593.00	0.90	6.42	0.15	
			N473276	593.00	594.00	1.00	1.03	0.1	
			N473277	594.00	594.90	0.90	4.26	0.25	
			N473278	594.90	596.00	1.10	0.22	0.44	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
596.00	649.85	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish grey, fine grained, massive locally weakly magnetic, "gabbroic texture". Several 5-50cm thick sections of medium to coarse grained composed of subhedral plagioclase with interstitial biotite from upper contact to 611m. From 611 to 629.56 medium to locally coarse grained, gabbroic texture. From 645 to lower contact fine grained. Locally hairline fracture filling black veinlets. No visible graphite. Upper contact sharp at 35 dca. Lower contact sharp at 30 dca.	N473279	596.00	597.00	1.00	0.03	0.03	
			N473280	597.00	598.00	1.00	0.02	0.02	
			N473281	598.00	599.50	1.50	0.02	0.02	
			N473282	599.50	600.50	1.00	0.01	0.04	
			N473283	600.50	602.00	1.50	0.02	0.02	
			N473285	602.00	603.00	1.00	0.03	0.03	
			N473286	603.00	604.50	1.50	0.01	0.03	
			N473287	604.50	606.00	1.50	0.02	0.01	
			N473288	606.00	607.50	1.50	0.02	0.02	
			N473289	607.50	609.00	1.50	0.04	0.05	
			N473290	609.00	610.00	1.00	0.01	0.02	
			N473292	610.00	611.00	1.00	0.02	0.07	
			N473293	611.00	612.00	1.00	0.03	0.1	
			N473294	612.00	613.00	1.00	0.02	0.12	
			N473296	613.00	614.00	1.00	0.02	0.12	
			N473297	614.00	615.00	1.00	0.02	0.05	
			N473298	615.00	616.00	1.00	0.02	0.03	
			N473299	616.00	617.00	1.00	0.05	0.03	
			N473300	617.00	618.00	1.00	0.04	0.07	
			N473301	618.00	619.00	1.00	0.03	0.04	
			N473302	619.00	620.00	1.00	0.03	0.05	
			N473303	620.00	621.00	1.00	0.03	0.03	
			N473305	621.00	622.00	1.00	0.03	0.05	
			N473306	622.00	623.00	1.00	0.03	0.02	
			N473307	623.00	624.00	1.00	0.05	0.37	
			N473308	624.00	624.90	0.90	0.04	0.03	
			N473309	624.90	625.35	0.45	0.03	0.02	
			N473310	625.35	626.50	1.15	0.03	0.14	
			N473312	626.50	627.50	1.00	0.03	0.04	
			N473313	627.50	628.45	0.95	0.03	0.03	
			N473314	628.45	629.56	1.11	0.02	0.08	
			N473316	629.56	631.00	1.44	0.01	0.005	
			N473317	631.00	632.50	1.50	0.04	0.02	
			N473318	632.50	634.00	1.50	0.02	0.02	
			N473319	634.00	634.97	0.97	0.04	0.02	
			N473320	634.97	636.00	1.03	0.03	0.04	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N473321	636.00	637.50	1.50	0.02	0.03	
		N473322	637.50	639.00	1.50	0.02	0.03	
		N473323	639.00	640.50	1.50	0.02	0.03	
		N473325	640.50	642.00	1.50	0.02	0.04	
		N473326	642.00	643.00	1.00	0.03	0.04	
		N473327	643.00	644.10	1.10	0.02	0.06	
		N473328	644.10	645.00	0.90	0.02	0.04	
		N473329	645.00	646.50	1.50	0.02	0.06	
		N473330	646.50	648.00	1.50	0.17	0.13	
		N473332	648.00	649.00	1.00	0.28	0.03	
		N473333	649.00	649.85	0.85	0.25	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
649.85	677.00	**SYEN Syenite** Medium grey to pinkish grey, medium grained, massive syenite. Weak gneissic banding. No visible graphite.	N473334	649.85	651.00	1.15	0.23	0.25	
			N473336	651.00	652.50	1.50	0.11	0.15	
			N473337	652.50	654.00	1.50	0.05	0.16	
			N473338	654.00	655.50	1.50	0.07	0.22	
			N473339	655.50	657.00	1.50	0.04	0.09	
			N473340	657.00	658.50	1.50	0.05	0.15	
			N473341	658.50	660.00	1.50	0.12	0.14	
			N473342	660.00	661.50	1.50	0.35	0.23	
			N473343	661.50	663.00	1.50	0.13	0.2	
			N473345	663.00	664.50	1.50	0.18	0.19	
			N473346	664.50	666.00	1.50	0.09	0.12	
			N473347	666.00	667.15	1.15	0.03	0.13	
			N473348	667.15	668.20	1.05	0.03	0.07	
			N473349	668.20	669.00	0.80	0.16	0.28	
			N473350	669.00	670.20	1.20	0.11	0.15	
			N473352	670.20	671.70	1.50	0.15	0.04	
			N473353	671.70	673.00	1.30	0.35	0.5	
			N473354	673.00	674.30	1.30	0.14	0.43	
			N473356	674.30	675.60	1.30	0.1	0.22	
			N473357	675.60	676.90	1.30	0.03	0.19	
			N473358	676.90	678.00	1.10	0.01	0.13	
677.00	682.70	**ID Intermediate Dyke** Medium grey fine grained, massive intermediate to felsic dyke. Upper contact sharp at 25 dca. Lower contact 20 dca.	N473359	678.00	679.00	1.00	0.01	0.12	
			N473360	679.00	680.00	1.00	0.01	0.03	
			N473361	680.00	681.00	1.00	0.01	0.1	
			N473362	681.00	681.80	0.80	0.01	0.15	
			N473363	681.80	682.70	0.90	0.01	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
682.70	683.80	**SYEN Syenite** Dark grey, massive syenite with pinkish granitic dyke sub parallel to core axis from upper contact to 683.5. from 682.7 to 683.5 half intermediate dyke half granitic dyke. No visible graphite not conductive.	N473365	682.70	683.80	1.10	0.15	0.19	
683.80	684.00	**GRPOP Graphite Overprinting** Dark grey to black probably syenite or possibly graphitic breccia. Strongly conductive. Graphitic flooding? Upper contact sharp at 40 dca. 1cm fault gouge carbonate veinlets at the contact. Very fine pyrite. Could be the top of a graphitic breccia. EOH 684.0m	N473366	683.80	684.00	0.20	9.07	1.75	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	366.00	09/04/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545824.8	683023.8			Reflex APS	14/04/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	122.60	228.80		-50.20	Chibougamau Diamond Drilling	15/04/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	309	*Casing Pulled*	*Casing (1)*	57.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To test the east pipe from the northeast.	This hole intersected well mineralized graphitic breccia from 123.80m to 240.20m. From 90.00m to 285.00m, the assays for this intersection averaged 4.00% Cg over 195.00m; within this intersection a higher grade graphite zone from 95.00m to 241.10m averaged 5.21% Cg over 146.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
63.00			237.7	228.7	-50.1	-50.1	☑	Reflex EZ	56378	
66.00			238.2	229.2	-49.9	-49.9	☑	Reflex EZ	56271	
69.00			237.1	228.1	-50.2	-50.2	☑	Reflex EZ	56245	
72.00			238	229	-50.1	-50.1	☑	Reflex EZ	56231	
75.00			236.6	227.6	-50.2	-50.2	☑	Reflex EZ	56228	
78.00			237.9	228.9	-49.9	-49.9	☑	Reflex EZ	56268	
81.00			236.9	227.9	-50.3	-50.3	☑	Reflex EZ	56166	
84.00			237.2	228.2	-50	-50	☑	Reflex EZ	56234	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			237.2	228.2	-50.2	-50.2	☑	Reflex EZ	56173	
90.00			237.8	228.8	-49.9	-49.9	☑	Reflex EZ	56212	
93.00			238.1	229.1	-50.1	-50.1	☑	Reflex EZ	56175	
96.00			238.3	229.3	-50.1	-50.1	☑	Reflex EZ	56179	
99.00			238.1	229.1	-50	-50	☑	Reflex EZ	56196	
102.00			236.8	227.8	-50.3	-50.3	☑	Reflex EZ	56178	
108.00			238.1	229.1	-50.2	-50.2	☑	Reflex EZ	56155	
111.00			237	228	-50.2	-50.2	☑	Reflex EZ	56161	
114.00			237	228	-50.3	-50.3	☑	Reflex EZ	56165	
123.00			237.1	228.1	-50.4	-50.4	☑	Reflex EZ	56163	
138.00			238.4	229.4	-50.3	-50.3	☑	Reflex EZ	56108	
144.00			237.5	228.5	-50.3	-50.3	☑	Reflex EZ	56192	
147.00			237	228	-50.6	-50.6	☑	Reflex EZ	56150	
153.00			238.5	229.5	-50.4	-50.4	☑	Reflex EZ	56140	
165.00			238.8	229.8	-50.5	-50.5	☑	Reflex EZ	56116	
168.00			237.3	228.3	-50.6	-50.6	☑	Reflex EZ	56140	
171.00			237.8	228.8	-50.6	-50.6	☑	Reflex EZ	56124	
174.00			237.6	228.6	-50.5	-50.5	☑	Reflex EZ	56165	
183.00			239	230	-50.4	-50.4	☑	Reflex EZ	56126	
189.00			238.5	229.5	-50.6	-50.6	☑	Reflex EZ	56108	
192.00			238.9	229.9	-50.5	-50.5	☑	Reflex EZ	56114	
195.00			238.1	229.1	-50.8	-50.8	☑	Reflex EZ	56129	
198.00			237.5	228.5	-50.7	-50.7	☑	Reflex EZ	56174	
201.00			237.6	228.6	-50.8	-50.8	☑	Reflex EZ	56153	
204.00			238	229	-50.6	-50.6	☑	Reflex EZ	56163	
210.00			238.2	229.2	-50.9	-50.9	☑	Reflex EZ	56122	
213.00			238.2	229.2	-50.8	-50.8	☑	Reflex EZ	55808	
216.00			238.2	229.2	-50.7	-50.7	☑	Reflex EZ	56156	
219.00			237.9	228.9	-50.9	-50.9	☑	Reflex EZ	56132	
222.00			239.1	230.1	-50.8	-50.8	☑	Reflex EZ	56132	
225.00			237.9	228.9	-50.9	-50.9	☑	Reflex EZ	56139	
228.00			238.5	229.5	-50.7	-50.7	☑	Reflex EZ	56165	
231.00			238.3	229.3	-50.9	-50.9	☑	Reflex EZ	56134	
234.00			238.7	229.7	-50.9	-50.9	☑	Reflex EZ	56142	
237.00			238.6	229.6	-50.9	-50.9	☑	Reflex EZ	56154	
240.00			238.6	229.6	-50.7	-50.7	☑	Reflex EZ	56199	
243.00			238	229	-51.1	-51.1	☑	Reflex EZ	56214	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
246.00			238.9	229.9	-50.9	-50.9	☑	Reflex EZ	56102	
249.00			237.9	228.9	-50.9	-50.9	☑	Reflex EZ	56159	
252.00			238.8	229.8	-50.9	-50.9	☑	Reflex EZ	56131	
255.00			237.9	228.9	-50.9	-50.9	☑	Reflex EZ	56123	
258.00			239	230	-50.9	-50.9	☑	Reflex EZ	56141	
261.00			238.1	229.1	-50.8	-50.8	☑	Reflex EZ	56153	
264.00			238.8	229.8	-50.8	-50.8	☑	Reflex EZ	56155	
267.00			237.9	228.9	-51	-51	☑	Reflex EZ	56134	
270.00			239.3	230.3	-50.8	-50.8	☑	Reflex EZ	56146	
273.00			238.2	229.2	-51.1	-51.1	☑	Reflex EZ	56129	
276.00			238.2	229.2	-51	-51	☑	Reflex EZ	56149	
279.00			238.5	229.5	-50.8	-50.8	☑	Reflex EZ	56250	
282.00			238.1	229.1	-51	-51	☑	Reflex EZ	56108	
285.00			238.3	229.3	-51	-51	☑	Reflex EZ	56245	
288.00			239.1	230.1	-50.9	-50.9	☑	Reflex EZ	56143	
291.00			238.2	229.2	-51	-51	☑	Reflex EZ	56239	
294.00			239.2	230.2	-50.9	-50.9	☑	Reflex EZ	56140	
297.00			238.4	229.4	-50.9	-50.9	☑	Reflex EZ	56280	
300.00			238	229	-51	-51	☑	Reflex EZ	56223	
303.00			238.5	229.5	-51.1	-51.1	☑	Reflex EZ	56189	
306.00			238	229	-51.1	-51.1	☑	Reflex EZ	56190	
309.00			237.9	228.9	-51.1	-51.1	☑	Reflex EZ	56165	
312.00			238.1	229.1	-50.9	-50.9	☑	Reflex EZ	56209	
315.00			239.3	230.3	-50.8	-50.8	☑	Reflex EZ	56192	
318.00			238.3	229.3	-51	-51	☑	Reflex EZ	56181	
321.00			237.8	228.8	-51	-51	☑	Reflex EZ	56250	
324.00			238.4	229.4	-50.9	-50.9	☑	Reflex EZ	56157	
327.00			238.9	229.9	-51.1	-51.1	☑	Reflex EZ	56193	
330.00			238.3	229.3	-51.2	-51.2	☑	Reflex EZ	56076	
333.00			238.3	229.3	-51.2	-51.2	☑	Reflex EZ	56157	
336.00			239.5	230.5	-51.1	-51.1	☑	Reflex EZ	56110	
339.00			238.2	229.2	-51	-51	☑	Reflex EZ	56185	
342.00			238.9	229.9	-50.9	-50.9	☑	Reflex EZ	56217	
345.00			238.3	229.3	-51.1	-51.1	☑	Reflex EZ	56213	
348.00			238.6	229.6	-51.1	-51.1	☑	Reflex EZ	56141	
351.00			239.8	230.8	-51	-51	☑	Reflex EZ	56108	
354.00			238.9	229.9	-50.9	-50.9	☑	Reflex EZ	56225	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
357.00			239.6	230.6	-51.1	-51.1	☑	Reflex EZ	56160	
360.00			239.8	230.8	-51	-51	☑	Reflex EZ	56151	
363.00			239.5	230.5	-51.1	-51.1	☑	Reflex EZ	56149	
366.00			239.4	230.4	-51	-51	☑	Reflex EZ	56082	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00 -	55.60	**OB Overburden** 0.00 to 54.90m. Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles, glacially rounded rocks and boulders. 54.9.00 to 55.6m. Rounded rocks of sedimentary and igneous intrusive basement from 1cm to 5cm in diameter at the first 30cm and grounded sections of limestone and dark grey syenite 15-20cm long.							
55.60 -	57.35	**SED Sediment** Light tan, brachial sediments. Moderately hard to hard. Unit is blocky with a few grounded 5-20cm sections of core. Lower contact is marked by broken and grounded core.							
57.35 -	63.06	**SYEN Syenite - Transition Zone** Medium grey to light pink, massive igneous rock. Weakly foliated with weak gneissic banding. 60.3 to 61.8 Few fracture filling carbonate veinlets and gouge 2-5mm thick at 30-45dca. Lower contact sharp at 60 dca.							
63.06 -	63.40	**FLT Fault Zone** Fault. Dark brown to dark green fault gouge. Lower contact sharp at 50 dca. Medium to dark green mud along fractures.							
63.40 -	80.83	**SYEN Syenite - Transition Zone** Medium grey to pinkish red, massive intrusive with weak gneissic banding. Blocky core with carbonate fracture filling veinlets 1-3mm from the upper contact to 64.6m. 64.6 to 80.83 solid core section with few mm thick fractures at 35 to 45 dca filled with medium to dark green soft material at the centre and white along the contacts.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
80.83	81.22	**FLT Fault Zone** Fault. Both contacts sharp at 35 dca. Fault gouge, compacted grounded up rock, muddy with hard angular fragments. Greenish, brownish colour gouge.							
81.22	93.40	**SYEN Syenite - Transition Zone** Medium grey to reddish grey, massive intrusive with weak gneissic banding. Fine to medium grained. Weak hematite overprint from the top contact to 89m. Very hard with hairline fracture filling dark green to black, non conductive chlorite? Veinlets. No visible graphite.	N468001	84.00	85.00	1.00	0.09	0.15	
			N468002	85.00	86.00	1.00	0.02	0.13	
			N468003	86.00	87.00	1.00	0.08	0.18	
			N468005	87.00	88.00	1.00	0.05	0.22	2.63
			N468006	88.00	89.00	1.00	0.13	0.16	2.6
			N468007	89.00	90.00	1.00	0.1	0.28	2.61
			N468008	90.00	91.00	1.00	0.05	0.28	2.63
			N468009	91.00	92.00	1.00	0.32	0.22	
			N468010	92.00	93.40	1.40	0.06	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
93.40	112.65	**SYENOP Syenite with Graphitic Overprinting - Transition Zone** Dark reddish brown, massive intrusive. Very hard. Weak to moderate, hairline fracture filling dark green to black veinlets. Weak graphitic overprint. From 93.4 to 99 5 to 30cm bleached sections.	N468012	93.40	94.15	0.75	0.02	0.29	
			N468013	94.15	95.00	0.85	0.32	0.22	
			N468014	95.00	96.00	1.00	1.44	0.09	
			N468016	96.00	97.00	1.00	0.92	0.18	2.62
			N468017	97.00	98.00	1.00	0.07	0.27	2.62
			N468018	98.00	99.00	1.00	0.08	0.2	2.58
			N468019	99.00	100.00	1.00	0.81	0.11	2.6
			N468020	100.00	101.00	1.00	0.41	0.23	
			N468021	101.00	102.00	1.00	0.44	0.19	
			N468022	102.00	103.00	1.00	0.41	0.16	
			N468023	103.00	104.00	1.00	0.58	0.1	
			N468025	104.00	105.00	1.00	1.02	0.07	
			N468026	105.00	106.00	1.00	0.82	0.07	
			N468027	106.00	107.00	1.00	0.47	0.15	
			N468028	107.00	108.00	1.00	0.57	0.13	
			N468029	108.00	109.00	1.00	0.44	0.19	
			N468030	109.00	110.00	1.00	0.12	0.22	
			N468032	110.00	111.00	1.00	0.06	0.23	
			N468033	111.00	112.00	1.00	0.13	0.24	
			N468034	112.00	112.65	0.65	0.31	0.12	
112.65	119.35	**FLT Fault Zone** Dark green, soft massive mafic to intermediate dyke. In the upper part of this section. Fine grained Biotite, chlorite. Upper contact sharp at 30 dca. The upper section of the dyke down to 114.88 is massive with few quartz+/- carbonate veins 3-5cm at 114.3. From 114.88 to 119.35 blocky core, 10-30cm wide fault gouge sections, mud, massive biotite very soft crumbly sections. Angular fragments from <1cm to 5cm. Quartz, +/- carbonate veinlets from 116 to 116.5. Broken core at the lower contact.	N468036	112.65	113.50	0.85	0.35	0.04	
			N468037	113.50	114.50	1.00	0.95	0.02	
			N468038	114.50	116.00	1.50	0.41	0.02	
			N468039	116.00	117.00	1.00	0.84	0.02	
			N468040	117.00	118.00	1.00	0.39	0.02	
			N468041	118.00	119.35	1.35	0.81	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
119.35	123.80	**SYENOP Syenite with Graphitic Overprinting - Transition Zone** Dark grey to brownish pink, massive intrusive. Fine to locally medium grained. Weak gneissic banding. Moderate graphitic overprint from 123 to 123.65. Hairline fracture filling black veinlets of chlorite? +/- graphite at 50 dca.	N468042	119.35	120.20	0.85	0.21	0.13	
			N468043	120.20	121.10	0.90	0.08	0.11	
			N468045	121.10	122.00	0.90	0.07	0.24	
			N468046	122.00	123.00	1.00	0.96	0.19	
			N468047	123.00	123.80	0.80	2.04	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
123.80 -	154.70	**GRPBX Graphitic Breccia - Mineralized** Dark grey, brecciated syenite with angular fragments 2-5 cm in size in black, strongly conductive graphitic matrix. Brecciated graphitic sections vary from 1 to 3m in thickness and alternate with less fractured massive syenite sections of similar thickness. 123.8 - 126.7 Blocky core mainly fractured and veined syenite, weak to moderate graphite. 126.7-131.33 higher graphitic content as 10-15cm graphite flooded sections, strongly conductive. 15cm fault gouge at 131.35. From 131.5 to 133 graphitic breccia section with graphite flooded, net-textured sections. From 136.3 to 139.75 moderate to strong graphitic content as veinlets or sets of veinlets randomly oriented. 139.75-141 syenite with weak to moderate graphitic content as hairline fracture filling veinlets. 141-145.7 10-20 cm sections of graphite flooding. Vuggy pyrite at 145.7 for 2-3cm. 145.57 -146.10 pinkish-red felsic dyke, fine grained with graphite flooded syenite fragment. Both contacts sharp at 35 dca. 150.8 to 154.7 Graphite flooded breccia section with high graphitic content.	N468048	123.80	124.90	1.10	3.13	0.07	
			N468049	124.90	125.90	1.00	3.42	0.04	
			N468050	125.90	126.70	0.80	8.32	0.03	
			N468052	126.70	128.00	1.30	12.45	0.03	
			N468053	128.00	128.80	0.80	2.69	0.1	
			N468054	128.80	129.50	0.70	4.56	0.18	
			N468056	129.50	130.50	1.00	6.99	0.03	2.58
			N468057	130.50	131.50	1.00	7.11	0.08	2.56
			N468058	131.50	132.50	1.00	10.85	0.09	2.48
			N468059	132.50	133.50	1.00	10.7	0.1	2.53
			N468060	133.50	134.25	0.75	7.99	0.05	
			N468061	134.25	135.00	0.75	8.84	0.08	
			N468062	135.00	136.30	1.30	1.84	0.1	
			N468063	136.30	137.20	0.90	7.33	0.07	
			N468065	137.20	138.00	0.80	7.42	0.13	
			N468066	138.00	138.57	0.57	0.92	0.09	
			N468067	138.57	139.75	1.18	7.15	0.07	
			N468068	139.75	141.00	1.25	0.79	0.11	
			N468069	141.00	142.00	1.00	7.48	0.12	
			N468070	142.00	143.00	1.00	11.45	0.16	
			N468072	143.00	144.00	1.00	7.84	0.11	
			N468073	144.00	144.80	0.80	3.58	0.16	
			N468074	144.80	145.70	0.90	7.82	0.17	
			N468076	145.70	146.10	0.40	1.34	0.2	
			N468077	146.10	147.00	0.90	6.18	0.03	
			N468078	147.00	148.00	1.00	12.85	0.05	
			N468079	148.00	149.00	1.00	9.37	0.13	
			N468080	149.00	149.75	0.75	8.4	0.12	
			N468081	149.75	150.50	0.75	6.29	0.12	
			N468082	150.50	150.80	0.30	0.51	0.04	
			N468083	150.80	151.75	0.95	6.76	0.12	
			N468085	151.75	152.80	1.05	9.01	0.13	
			N468086	152.80	153.80	1.00	11.15	0.16	
			N468087	153.80	154.70	0.90	10.7	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
154.70	157.23	**FD Felsic Dyke** Medium grey, fine grained, massive felsic dyke. Upper contact, sharp, irregular at 25 dca. Few subhedral, feldspar phenocrysts 1-3mm in fine grained matrix. Lower contact sharp at 50 dca.	N468088	154.70	155.60	0.90	0.37	0.15	
			N468089	155.60	156.45	0.85	0.09	0.04	
			N468090	156.45	157.23	0.78	0.02	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
157.23	186.54	**GRPBX Graphitic Breccia - Mineralized** Graphitic breccia. Less brecciated compared to previous section 123.8 to 154.7. Pervasive graphite as flooding and fracture filling veinlets mainly from 161.5 to 164.8, from 166.7 to 167.8 and from 173.2 to 174 . Syenite sections are massive, fine grained, dark grey to pinkish -grey quartz, feldspar, biotite. Odd pyrite bleb at 169.6m. 173.2 to 174 graphite flooding, dark grey to black (photo).	N468092	157.23	158.00	0.77	5.44	0.22	
			N468093	158.00	159.00	1.00	4.1	0.21	
			N468094	159.00	160.00	1.00	3.68	0.24	
			N468096	160.00	161.00	1.00	11.75	0.16	
			N468097	161.00	162.00	1.00	4.1	0.25	
			N468098	162.00	163.00	1.00	6.66	0.21	
			N468099	163.00	164.00	1.00	9.08	0.24	
			N468100	164.00	165.00	1.00	9.08	0.24	
			N468101	165.00	166.00	1.00	5.83	0.24	
			N468102	166.00	167.00	1.00	5.54	0.24	
			N468103	167.00	168.00	1.00	8.9	0.21	
			N468105	168.00	169.00	1.00	8.24	0.16	
			N468106	169.00	170.00	1.00	11	0.29	
			N468107	170.00	171.00	1.00	4.29	0.28	
			N468108	171.00	172.00	1.00	1.34	0.3	
			N468109	172.00	173.00	1.00	3.75	0.3	
			N468110	173.00	174.00	1.00	8.55	0.3	
			N468112	174.00	175.00	1.00	10.25	0.42	
			N468113	175.00	176.00	1.00	9.78	0.31	
			N468114	176.00	177.00	1.00	12.05	0.23	
			N468116	177.00	178.00	1.00	6.2	0.28	
			N468117	178.00	179.00	1.00	10.8	0.38	
			N468118	179.00	180.00	1.00	7.57	0.3	
			N468119	180.00	181.00	1.00	7.97	0.32	
			N468120	181.00	182.00	1.00	6.32	0.3	
			N468121	182.00	183.00	1.00	12.15	0.36	
			N468122	183.00	184.00	1.00	7.92	0.24	
			N468123	184.00	185.00	1.00	11.3	0.35	
			N468125	185.00	186.00	1.00	13.85	0.26	
			N468126	186.00	186.54	0.54	14.1	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
186.54	191.65	**SYENOP Syenite with Graphitic Overprinting - Mineralized** Dark grey to pinkish grey, massive syenite gneiss with weak gneissic banding. Overall weak to moderate graphitic overprint as hairline fracture filling veinlets. From 189 to 189.7 moderate to strong graphitic content as graphite flooding.	N468127	186.54	187.50	0.96	0.7	0.21	
			N468128	187.50	188.30	0.80	0.22	0.29	
			N468129	188.30	189.00	0.70	1.03	0.38	
			N468130	189.00	189.70	0.70	10.4	0.26	
			N468132	189.70	190.60	0.90	1.48	0.34	
			N468133	190.60	191.65	1.05	3.4	0.35	
191.65	195.23	**GRPBX Graphitic Breccia - Mineralized** Dark grey to black, graphitic breccia mixed with intervals of massive syenite of similar length. Brecciated sections from 191.65 to 193.55 and from 194.36 to 195.23. Lower contact sharp at 25 dca. Moderate to strong graphite content in the brecciated sections.	N468134	191.65	192.55	0.90	13.4	0.33	
			N468136	192.55	193.55	1.00	8.46	0.25	
			N468137	193.55	194.36	0.81	0.62	0.34	
			N468138	194.36	195.23	0.87	8.1	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
195.23	213.00	**SYENOP Syenite with Graphitic Overprinting - Mineralized** This section contains a mixture of graphite overprinted syenite alternating with meter long breccia sections. Massive syenite sections contain weak to moderate graphite as veinlets and minor graphite flooding while brecciated sections have higher graphite content as graphitic flooding in the matrix. Dark green, fine grained, 6cm thick, intermediate dyke at 80 dca at 196.65. Breccia sections extend from 197.4 to 198.35; 203.57 to 204.4; 206.95 to 208 and 209 to 210.	N468139	195.23	196.33	1.10	1.23	0.33	
			N468140	196.33	197.40	1.07	5.57	0.25	
			N468141	197.40	198.35	0.95	10.4	0.28	
			N468142	198.35	199.30	0.95	0.41	0.35	
			N468143	199.30	200.20	0.90	1.05	0.38	
			N468145	200.20	201.10	0.90	2.69	0.31	
			N468146	201.10	202.20	1.10	5.92	0.18	
			N468147	202.20	202.60	0.40	0.49	0.09	
			N468148	202.60	203.57	0.97	1.12	0.27	
			N468149	203.57	204.40	0.83	7.47	0.23	
			N468150	204.40	205.40	1.00	0.88	0.49	
			N468152	205.40	206.10	0.70	0.66	0.35	
			N468153	206.10	206.95	0.85	1.75	0.33	
			N468154	206.95	208.00	1.05	10.85	0.33	
			N468156	208.00	209.00	1.00	2.97	0.42	
			N468157	209.00	210.00	1.00	15.55	0.34	
			N468158	210.00	211.00	1.00	0.99	0.34	
			N468159	211.00	212.00	1.00	4.38	0.31	
			N468160	212.00	213.00	1.00	5.21	0.33	
213.00	221.00	**GRPBX Graphitic Breccia - Mineralized** Dark grey to black, mostly graphitic breccia with minor, <1m syenite intervals. Strong graphitic content as fracture filling veinlets, graphitic flooding and some semi-massive intervals 15-20 cm long from 219.5 to 220.5.	N468161	213.00	214.00	1.00	8.21	0.28	
			N468162	214.00	215.00	1.00	5.79	0.25	
			N468163	215.00	216.00	1.00	4.59	0.34	
			N468165	216.00	217.00	1.00	5.08	0.55	
			N468166	217.00	218.00	1.00	6.25	0.3	
			N468167	218.00	219.00	1.00	0.89	0.25	
			N468168	219.00	220.00	1.00	9.48	2.33	
			N468169	220.00	221.00	1.00	8.73	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
221.00	224.52	**SYENOP Syenite with Graphitic Overprinting** Dark grey, medium grained, massive syenite, weak gneissic banding at 50 dca. Weak to moderate graphite content as hairline fracture filling graphite veinlets from 223 to 224.05.	N468170	221.00	222.00	1.00	1.1	0.33	
			N468172	222.00	223.00	1.00	0.87	0.36	
			N468173	223.00	224.05	1.05	1.51	0.33	
			N468174	224.05	224.52	0.47	2.18	0.25	
224.52	240.20	**GRPBX Graphitic Breccia - Mineralized** Graphite breccia. Dark grey, fine grained, massive, hard, micaceous (5% biotite) rock. Could be an intermediate dyke. Breccia fragments are mainly composed of this rock type mixed with some, medium grained, greyish-pink syenite fragments. Graphite is mainly in the matrix as veins, 1-10mm and randomly oriented veinlets filling the crackled fractured rock. From 228 to 229.07 syenite section. Few pyrite specks and small blebs between 238 and 239m. Higher graphitic content between 233 and 240.2m. Possible thin mafic to intermediate dykes 5-15cm thick between 235.5 and 236.5 that have been fractured as greyish-greenish biotite rich fragments in graphite matrix.	N468176	224.52	225.50	0.98	8.51	0.39	
			N468177	225.50	226.00	0.50	6.82	0.24	
			N468178	226.00	227.00	1.00	7.2	0.26	
			N468179	227.00	228.00	1.00	7.09	0.27	
			N468180	228.00	229.07	1.07	0.5	0.36	
			N468181	229.07	230.00	0.93	2.02	0.16	
			N468182	230.00	231.00	1.00	7.79	0.51	
			N468183	231.00	232.00	1.00	9.31	0.34	
			N468185	232.00	233.00	1.00	10.05	0.3	
			N468186	233.00	234.00	1.00	7.95	0.33	
			N468187	234.00	235.00	1.00	8.61	0.31	
			N468188	235.00	236.00	1.00	13.05	0.35	
			N468189	236.00	237.00	1.00	4.4	0.31	
			N468190	237.00	238.00	1.00	8.05	0.39	
			N468192	238.00	239.10	1.10	11.25	0.35	
			N468193	239.10	240.20	1.10	4.58	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
240.20	285.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained with weak gneissic banding syenite. Weak to locally moderate graphite content. Single hairline fracture filling conductive graphite veinlets at 256m and 256.35m. From 265 to 267 weak to moderate graphite content as randomly oriented mm thick fracture filling veinlets in a dark grey, finer grained section of the syenite (~1% graphite?). Weak graphite overprint from 268 to 276 as few hairline fracture filling veinlets.	N468194	240.20	241.10	0.90	0.67	0.37	
			N468196	241.10	242.00	0.90	0.17	0.29	
			N468197	242.00	243.00	1.00	0.15	0.37	
			N468198	243.00	244.00	1.00	0.1	0.35	
			N468199	244.00	245.00	1.00	0.11	0.31	
			N468200	245.00	246.00	1.00	0.02	0.18	
			N468201	246.00	247.00	1.00	0.03	0.21	
			N468202	247.00	248.00	1.00	0.08	0.27	
			N468203	248.00	249.00	1.00	0.02	0.23	
			N468205	249.00	250.00	1.00	0.14	0.3	
			N468206	250.00	251.00	1.00	0.07	0.28	
			N468207	251.00	252.00	1.00	0.07	0.26	
			N468208	252.00	253.00	1.00	0.17	0.29	
			N468209	253.00	254.00	1.00	0.06	0.24	
			N468210	254.00	255.00	1.00	0.12	0.28	
			N468212	255.00	256.00	1.00	0.17	0.23	
			N468213	256.00	257.00	1.00	0.31	0.33	
			N468214	257.00	258.00	1.00	0.32	0.39	
			N468216	258.00	259.00	1.00	0.16	0.34	
			N468217	259.00	260.00	1.00	0.14	0.28	
			N468218	260.00	261.00	1.00	0.4	0.34	
			N468219	261.00	262.00	1.00	0.65	0.65	
			N468220	262.00	263.00	1.00	1.2	2.06	
			N468221	263.00	264.00	1.00	0.93	0.56	
			N468222	264.00	265.00	1.00	0.31	0.37	
			N468223	265.00	266.00	1.00	1.77	0.42	
			N468225	266.00	267.00	1.00	1.62	0.47	
			N468226	267.00	268.00	1.00	0.5	0.45	
			N468227	268.00	269.00	1.00	0.43	0.36	
			N468228	269.00	270.00	1.00	0.21	0.32	
			N468229	270.00	271.00	1.00	0.86	0.39	
			N468230	271.00	272.00	1.00	0.49	0.3	
			N468232	272.00	273.00	1.00	0.19	0.29	
			N468233	273.00	274.00	1.00	0.25	0.32	
			N468234	274.00	275.00	1.00	0.23	0.32	
			N468236	275.00	276.00	1.00	0.39	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N468237	276.00	277.00	1.00	0.26	0.3	
			N468238	277.00	278.00	1.00	0.72	0.44	
			N468239	278.00	279.00	1.00	0.61	0.31	
			N468240	279.00	280.00	1.00	0.44	0.3	
			N468241	280.00	281.00	1.00	0.34	0.22	
			N468242	281.00	282.00	1.00	1.63	0.3	
			N468243	282.00	283.00	1.00	0.95	0.29	
			N468245	283.00	284.00	1.00	1.07	0.43	
			N468246	284.00	285.00	1.00	0.25	0.24	
285.00	286.35	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate dyke. Upper contact sharp at 20 dca. Lower contact sharp at 40 dca.	N468247	285.00	286.35	1.35	0.05	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
286.35	323.25	**SYENOP Syenite with Graphitic Overprinting** Medium grey, to locally pink, medium grained massive syenite. Weak graphite overprint as one hairline fracture filling graphite veinlet at 303.43m.	N468248	286.35	287.20	0.85	0.34	0.32	
			N468249	287.20	288.00	0.80	0.76	0.28	
			N468250	288.00	289.00	1.00	0.83	0.34	
			N468252	289.00	290.00	1.00	0.63	0.3	
			N468253	290.00	291.00	1.00	0.41	0.34	
			N468254	291.00	292.00	1.00	0.95	0.28	
			N468256	292.00	293.00	1.00	0.34	0.29	
			N468257	293.00	294.00	1.00	0.15	0.38	
			N468258	294.00	295.00	1.00	0.16	0.21	
			N468259	295.00	296.00	1.00	0.14	0.24	
			N468260	296.00	297.00	1.00	0.26	0.24	
			N468261	297.00	298.00	1.00	0.41	0.31	
			N468262	298.00	299.00	1.00	0.19	0.26	
			N468263	299.00	300.00	1.00	0.13	0.3	
			N468265	300.00	301.00	1.00	0.12	0.21	
			N468266	301.00	302.00	1.00	0.2	0.23	
			N468267	302.00	302.63	0.63	0.25	0.3	
			N468268	302.63	303.25	0.62	0.11	0.11	
			N468269	303.25	304.00	0.75	0.33	0.27	
			N468270	304.00	305.00	1.00	0.28	0.3	
			N468272	305.00	306.00	1.00	0.21	0.22	
			N468273	306.00	307.00	1.00	0.18	0.24	
			N468274	307.00	308.00	1.00	0.2	0.26	
			N468276	308.00	309.00	1.00	0.16	0.24	
			N468277	309.00	310.00	1.00	0.13	0.21	
			N468278	310.00	311.00	1.00	0.09	0.16	
			N468279	311.00	312.00	1.00	0.41	0.27	
			N468280	312.00	313.00	1.00	0.27	0.25	
			N468281	313.00	314.00	1.00	0.16	0.23	
			N468282	314.00	315.00	1.00	0.07	0.17	
			N468283	315.00	316.00	1.00	0.06	0.13	
			N468285	316.00	317.00	1.00	0.06	0.12	
			N468286	317.00	318.00	1.00	0.04	0.06	
			N468287	318.00	319.00	1.00	0.07	0.13	
			N468288	319.00	320.00	1.00	0.04	0.04	
			N468289	320.00	321.00	1.00	0.06	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N468290	321.00	322.00	1.00	0.04	0.08	
323.25	328.50	**FD Felsic Dyke** Dark grey, very fine to fine grained, aphanitic, felsic dyke. Upper contact at 80 dca; lower contact at 45 dca.							
328.50	366.00	**SYEN Syenite** Medium grey to locally pinkish-grey, medium grained syenite. Weak gneissic banding at 40 dca. No visible graphite. EOH 366.0m							

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	424.50	14/04/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545700	683100.5			Reflex APS	22/04/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.60	276.50		-49.80	Chibougamau Diamond Drilling	23/04/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	298.5	*Casing Pulled*	*Casing (1)*	126.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East pipe from the East.	This hole intersected graphitic breccia from 147.50m to 315.00m with minor syenite intervals. Generally good to locally very good conductivity and graphite content in the breccia. The assays from 95.00m to 315.00m averaged 4.47% Cg over 219.00m; within this intersection a higher grade graphite zone from 138.00m to 315.00m averaged 5.34% Cg over 177.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
96.00			285.7	276.7	-50.2	-50.2	☑	Reflex EZ		No Magnetic Field Record
129.00			281.6	272.6	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
138.00			283.5	274.5	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
147.00			284.2	275.2	-50.1	-50.1	☑	Reflex EZ		No Magnetic Field Record
183.00			282.2	273.2	-50.7	-50.7	☑	Reflex EZ		No Magnetic Field Record
192.00			283.6	274.6	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
207.00			288.7	279.7	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			288.9	279.9	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
213.00			288.1	279.1	-50.5	-50.5	☑	Reflex EZ		No Magnetic Field Record
216.00			280.2	271.2	-50.5	-50.5	☑	Reflex EZ		No Magnetic Field Record
222.00			282.8	273.8	-50.6	-50.6	☑	Reflex EZ		No Magnetic Field Record
225.00			288.1	279.1	-50.6	-50.6	☑	Reflex EZ		No Magnetic Field Record
228.00			288.3	279.3	-50.7	-50.7	☑	Reflex EZ		No Magnetic Field Record
231.00			289.6	280.6	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
237.00			278.5	269.5	-53.4	-53.4	☑	Reflex EZ		No Magnetic Field Record
243.00			289.8	280.8	-50.5	-50.5	☑	Reflex EZ		No Magnetic Field Record
252.00			289.2	280.2	-50.7	-50.7	☑	Reflex EZ		No Magnetic Field Record
255.00			289.3	280.3	-50.7	-50.7	☑	Reflex EZ		No Magnetic Field Record
267.00			288.5	279.5	-50.9	-50.9	☑	Reflex EZ		No Magnetic Field Record
270.00			287.6	278.6	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
273.00			290.4	281.4	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
279.00			291.1	282.1	-50.2	-50.2	☑	Reflex EZ		No Magnetic Field Record
282.00			288.6	279.6	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
285.00			291.2	282.2	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
288.00			291.1	282.1	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
297.00			291.8	282.8	-50.1	-50.1	☑	Reflex EZ		No Magnetic Field Record
300.00			290.6	281.6	-50.3	-50.3	☑	Reflex EZ		No Magnetic Field Record
303.00			291.5	282.5	-50.1	-50.1	☑	Reflex EZ		No Magnetic Field Record
306.00			291.3	282.3	-50.2	-50.2	☑	Reflex EZ		No Magnetic Field Record
309.00			291.8	282.8	-50.1	-50.1	☑	Reflex EZ		No Magnetic Field Record
312.00			291.4	282.4	-50.2	-50.2	☑	Reflex EZ		No Magnetic Field Record
315.00			291.9	282.9	-50	-50	☑	Reflex EZ		No Magnetic Field Record
318.00			291.7	282.7	-50.1	-50.1	☑	Reflex EZ		No Magnetic Field Record
321.00			290.6	281.6	-50.2	-50.2	☑	Reflex EZ		No Magnetic Field Record
324.00			291.5	282.5	-50	-50	☑	Reflex EZ		No Magnetic Field Record
327.00			292.1	283.1	-50	-50	☑	Reflex EZ		No Magnetic Field Record
330.00			291.8	282.8	-49.9	-49.9	☑	Reflex EZ		No Magnetic Field Record
333.00			295.8	286.8	-50.4	-50.4	☑	Reflex EZ		No Magnetic Field Record
336.00			290.8	281.8	-50	-50	☑	Reflex EZ		No Magnetic Field Record
339.00			290.9	281.9	-50	-50	☑	Reflex EZ		No Magnetic Field Record
342.00			291	282	-50	-50	☑	Reflex EZ		No Magnetic Field Record
345.00			291.9	282.9	-49.7	-49.7	☑	Reflex EZ		No Magnetic Field Record

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
348.00			291.6	282.6	-49.8	-49.8	☑	Reflex EZ		No Magnetic Field Record
351.00			291	282	-49.9	-49.9	☑	Reflex EZ		No Magnetic Field Record
354.00			291.5	282.5	-49.8	-49.8	☑	Reflex EZ		No Magnetic Field Record
357.00			291.1	282.1	-49.8	-49.8	☑	Reflex EZ		No Magnetic Field Record
360.00			292.2	283.2	-49.6	-49.6	☑	Reflex EZ		No Magnetic Field Record
363.00			292.7	283.7	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record
366.00			292.5	283.5	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record
369.00			291.7	282.7	-49.5	-49.5	☑	Reflex EZ		No Magnetic Field Record
372.00			291.2	282.2	-49.6	-49.6	☑	Reflex EZ		No Magnetic Field Record
375.00			292.2	283.2	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record
378.00			291.2	282.2	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record
381.00			291.5	282.5	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record
384.00			292	283	-49.3	-49.3	☑	Reflex EZ		No Magnetic Field Record
387.00			291.7	282.7	-49.2	-49.2	☑	Reflex EZ		No Magnetic Field Record
390.00			291.5	282.5	-49.2	-49.2	☑	Reflex EZ		No Magnetic Field Record
396.00			292.3	283.3	-49	-49	☑	Reflex EZ		No Magnetic Field Record
399.00			291.7	282.7	-49.1	-49.1	☑	Reflex EZ		No Magnetic Field Record
402.00			291.8	282.8	-49	-49	☑	Reflex EZ		No Magnetic Field Record
405.00			291	282	-49.1	-49.1	☑	Reflex EZ		No Magnetic Field Record
408.00			292.3	283.3	-48.8	-48.8	☑	Reflex EZ		No Magnetic Field Record
411.00			291.1	282.1	-48.9	-48.9	☑	Reflex EZ		No Magnetic Field Record
414.00			292.1	283.1	-48.7	-48.7	☑	Reflex EZ		No Magnetic Field Record
417.00			292.5	283.5	-48.7	-48.7	☑	Reflex EZ		No Magnetic Field Record
420.00			291.7	282.7	-48.8	-48.8	☑	Reflex EZ		No Magnetic Field Record
423.00			290.5	281.5	-49.4	-49.4	☑	Reflex EZ		No Magnetic Field Record

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	64.00	**OB Overburden** 0-62.5 Unknown overburden that is likely a mixtures of lowlands dirt, muskeg, pebbles glacially rounded rocks and boulders. 62.5 to 64 mixture of grounded core limestone 3-20cm in length and grounded core in pebble size fragments of dark grey fine grained felsic rock.							
64.00	66.00	**SED Sediment** White, fine grained, limestone, very broken, grounded core. Limestone is vuggy in places.							
66.00	74.00	**SYEN Syenite** Very weathered rock. Crumbly, whitish, light grey to pinkish-light brown with greenish colour along fracture faces downhole. Original rock probably felsic intrusive based on less weathered sections. Probable fault zone from 66.9 to 68.1. Very broken core, intense weathering, grounded fragments, mixed with clay locally. Lower contact sharp at 60 dca.							
74.00	77.00	**ID Intermediate Dyke** Greenish-grey rock. Fine grained, massive with rusty stains along fractures. Weak foliation at 85 dca. Non magnetic. Lower contact sharp at 15 dca not very clear as marked by the contact of weathered dyke? and less weathered pink syenite.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
77.00	115.75	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish grey, massive felsic intrusive. Intense weathering near the upper contact from 78 to 79.3m. Weathering continues with less intensity to 82.5m. Weak graphite overprint as black, hairline fracture filling veinlets from 88.6 to 94.7m. Graphite veinlets and conductivity appear to increase down hole within this interval. 89.1 2cm fault with black and greenish-black fault gouge at 40 dca. 95.5 to 96 Fault. Broken core, soft, black, graphite veinlets, good conductivity. From 104.3 to 111 hairline fracture filling black veinlets, moderate conductivity. 114.10-114.5 20 cm lost core. 10cm dark green, soft, grounded core fragment, mafic dyke?	N468292	80.00	81.00	1.00	0.08	0.02	
			N468293	81.00	82.00	1.00	0.1	0.03	
			N468294	82.00	83.00	1.00	0.18	0.1	
			N468296	83.00	84.00	1.00	0.11	0.19	2.61
			N468297	84.00	85.00	1.00	0.11	0.11	2.61
			N468298	85.00	86.00	1.00	0.22	0.11	2.6
			N468299	86.00	87.00	1.00	0.21	0.14	2.59
			N468300	87.00	88.00	1.00	0.28	0.19	
			N468301	88.00	89.00	1.00	0.4	0.09	
			N468302	89.00	90.00	1.00	1.58	0.08	
			N468303	90.00	91.00	1.00	0.34	0.12	
			N468305	91.00	92.00	1.00	1.17	0.09	
			N468306	92.00	93.00	1.00	0.47	0.2	
			N468307	93.00	94.00	1.00	0.57	0.17	
			N468308	94.00	95.15	1.15	1.99	0.02	
			N468309	95.15	96.15	1.00	16.25	0.15	
			N468310	96.15	97.10	0.95	1.15	0.11	
			N468312	97.10	98.00	0.90	0.91	0.23	
			N468313	98.00	99.00	1.00	0.29	0.24	
			N468314	99.00	100.00	1.00	0.2	0.25	
			N468316	100.00	101.00	1.00	0.32	0.08	
			N468317	101.00	102.00	1.00	0.21	0.09	
			N468318	102.00	103.00	1.00	0.13	0.18	
			N468319	103.00	104.00	1.00	0.12	0.11	
			N468320	104.00	105.00	1.00	0.3	0.17	
			N468321	105.00	106.00	1.00	0.94	0.11	
			N468322	106.00	107.00	1.00	0.82	0.16	
			N468323	107.00	108.00	1.00	0.74	0.06	
			N468325	108.00	109.00	1.00	1.04	0.03	
			N468326	109.00	110.00	1.00	0.31	0.21	
			N468327	110.00	111.00	1.00	1.62	0.2	
			N468328	111.00	112.00	1.00	2.14	0.14	
			N468329	112.00	113.00	1.00	0.15	0.2	
			N468330	113.00	114.00	1.00	0.2	0.17	
			N468332	114.00	115.00	1.00	0.41	0.12	
			N468333	115.00	115.75	0.75	0.15	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
115.75	119.50	**MD Mafic Dyke** Green to greyish-green, fine grained, massive mafic dyke. Biotite, amphibole. Chlorite ~20cm at lower contact. Soft, grounded core, 30cm lost core at lower contact. Grounded core at both contacts. Weak foliation at 55 dca.	N468334	115.75	117.00	1.25	0.44	0.02	
			N468336	117.00	118.25	1.25	0.29	0.01	
			N468337	118.25	119.50	1.25	0.33	0.02	
119.50	141.05	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish purple grey, medium grained syenite. Hairline fracture filling black, graphite veinlets in sets of 1-3cm wide with moderate to good conductivity throughout this unit.	N468338	119.50	120.50	1.00	0.27	0.15	
			N468339	120.50	122.00	1.50	0.12	0.2	
			N468340	122.00	123.00	1.00	0.19	0.19	
			N468341	123.00	124.00	1.00	0.19	0.11	
			N468342	124.00	125.00	1.00	0.15	0.13	
			N468343	125.00	126.00	1.00	0.12	0.16	
			N468345	126.00	127.00	1.00	0.71	0.07	
			N468346	127.00	128.00	1.00	0.45	0.1	
			N468347	128.00	129.00	1.00	0.72	0.06	
			N468348	129.00	130.00	1.00	0.99	0.23	
			N468349	130.00	131.00	1.00	0.62	0.14	
			N468350	131.00	132.00	1.00	0.3	0.33	
			N468352	132.00	133.00	1.00	0.61	0.16	
			N468353	133.00	134.00	1.00	0.23	0.12	
			N468354	134.00	135.00	1.00	0.66	0.12	
			N468356	135.00	136.00	1.00	0.17	0.18	
			N468357	136.00	137.00	1.00	0.28	0.07	
			N468358	137.00	138.00	1.00	0.52	0.06	
			N468359	138.00	139.00	1.00	1.15	0.06	
			N468360	139.00	140.00	1.00	1.04	0.08	
			N468361	140.00	141.05	1.05	0.45	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
141.05 -	142.30	**FLT Fault Zone** Broken core, fractured section of syenite. Angular fragments. Dark green clay at 141.05 to 141.10. Graphite veinlets in a 20cm syenite fragment at 141.2. Minor carbonate veinlets. Broken core at both contacts.	N468362	141.05	142.30	1.25	2.04	0.03	
142.30 -	147.53	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, massive medium grained syenite. This unit becomes darker grey in colour from 145 to lower contact. Moderate graphite overprint as sets of mm thick graphitic veinlets from 144.2 to 144.8 and 147.0 to 147.3.	N468363	142.30	143.40	1.10	0.4	0.15	
			N468365	143.40	144.50	1.10	1.76	0.11	
			N468366	144.50	145.50	1.00	1.3	0.06	
			N468367	145.50	146.50	1.00	0.83	0.08	
			N468368	146.50	147.53	1.03	3.53	0.05	
147.53 -	162.25	**GRPBX Graphitic Breccia** Graphite breccia. Dark grey with purple tinge syenite fragments angular in graphitic matrix. Matrix has metallic luster. Very good conductivity. Good graphite content from upper contact to 152.1. Upper contact at 50 dca. 152.1 to 154.3 syenite section with weak graphite content as a few veinlets at 152.5m. Trace pyrite as small blebs 1-5mm from 155 to 162m. 154.3 to lower contact good breccia section with high conductivity and very good graphite content. Lower contact at 40 dca.	N468369	147.53	148.50	0.97	6.21	0.07	
			N468370	148.50	149.50	1.00	9.54	0.13	
			N468372	149.50	150.50	1.00	7.33	0.05	
			N468373	150.50	151.50	1.00	10	0.09	
			N468374	151.50	152.50	1.00	3.47	0.12	
			N468376	152.50	153.75	1.25	1.02	0.21	
			N468377	153.75	155.00	1.25	5.81	0.22	
			N468378	155.00	156.00	1.00	7.76	0.15	2.59
			N468379	156.00	157.00	1.00	6.24	0.15	2.58
			N468380	157.00	158.00	1.00	0.96	0.2	2.62
			N468381	158.00	159.00	1.00	7.29	0.14	2.58
			N468382	159.00	160.00	1.00	11.35	0.2	
			N468383	160.00	161.00	1.00	7.75	0.18	
			N468385	161.00	162.25	1.25	8.62	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
162.25	167.35	**SYENOP Syenite with Graphitic Overprinting** Medium grained, dark grey with a pinkish-purple hue massive syenite. Weak graphite overprint as one conductive veinlet at 162.9m. Black 2mm veinlet, chlorite?, conductive, weakly magnetic at 165, trace Po?	N468386	162.25	163.10	0.85	0.91	0.29	
			N468387	163.10	164.10	1.00	0.15	0.28	
			N468388	164.10	165.10	1.00	0.17	0.31	
			N468389	165.10	166.20	1.10	0.24	0.25	
			N468390	166.20	167.35	1.15	0.48	0.27	
167.35	168.40	**GRPBX Graphitic Breccia** Dark grey, medium grained brecciated syenite with dark grey to black metallic sheen graphite in the matrix, net-textured. Good conductivity, good graphite content. Upper contact at 40 dca. Lower contact at 50 dca.	N468392	167.35	168.40	1.05	8.52	0.2	
168.40	178.27	**SYENOP Syenite with Graphitic Overprinting** Dark grey to pinkish grey, medium grained, massive syenite. Very weak graphitic overprint as single hairline fracture filling veinlets at 171.6 and 173.15.	N468393	168.40	169.50	1.10	2.58	0.14	
			N468394	169.50	170.50	1.00	0.25	0.29	
			N468396	170.50	171.50	1.00	0.47	0.27	
			N468397	171.50	172.50	1.00	1.07	0.3	
			N468398	172.50	173.50	1.00	0.41	0.25	
			N468399	173.50	174.50	1.00	0.61	0.23	
			N468400	174.50	175.50	1.00	0.26	0.31	
			N468401	175.50	176.50	1.00	0.29	0.3	
			N468402	176.50	177.40	0.90	0.21	0.27	
			N468403	177.40	178.27	0.87	0.87	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
178.27	181.70	**GRPBX Graphitic Breccia** Fine to medium grained dark grey syenite fragments in dark grey to black with metallic sheen graphite matrix. Minor biotite at 179.4m. Greenish grey, fine grained mafic to intermediate dyke from 178.35 to 178.62 with graphite veinlets. Foliation at 60 dca. Same from 179 to 179.1. Very good graphite content from 179 to 180.5m. Trace pyrite at 180.4m. Lower contact sharp at 25 dca.	N468405	178.27	179.00	0.73	5.12	0.12	
			N468406	179.00	180.00	1.00	14.8	0.22	
			N468407	180.00	180.80	0.80	12.8	0.41	
			N468408	180.80	181.70	0.90	16.45	0.79	
181.70	183.40	**SYENOP Syenite with Graphitic Overprinting** Greyish-pink, medium grained, massive syenite. Weak graphitic overprint as one or two 1mm thick graphite veinlets.	N468409	181.70	182.60	0.90	0.42	0.19	
			N468410	182.60	183.40	0.80	0.74	0.26	
183.40	199.13	**GRPBX Graphitic Breccia** Dark grey, medium grained syenite fragments up to 15cm in graphite bearing matrix. Good graphite content, good conductivity. From 187.85 to 188.75 syenite section with no visible graphite. At 190.2m 15cm biotite rich, mafic dyke at 55 dca. 8cm angular mafic fragment at 193m. Trace pyrite. Lower contact sharp at 90 dca.	N468412	183.40	184.22	0.82	5.91	0.31	
			N468413	184.22	185.00	0.78	9.14	0.29	
			N468414	185.00	185.78	0.78	9.83	0.24	
			N468416	185.78	186.88	1.10	3.23	0.32	
			N468417	186.88	187.85	0.97	4.23	0.31	
			N468418	187.85	189.00	1.15	1.64	0.32	
			N468419	189.00	190.00	1.00	5.15	0.33	
			N468420	190.00	191.00	1.00	5.2	0.16	
			N468421	191.00	192.00	1.00	5.04	0.28	
			N468422	192.00	193.00	1.00	13.8	0.38	
			N468423	193.00	194.00	1.00	6.87	0.37	
			N468425	194.00	195.00	1.00	8.23	0.23	
			N468426	195.00	196.00	1.00	8.62	0.18	
			N468427	196.00	197.00	1.00	9.65	0.29	
			N468428	197.00	198.00	1.00	10.35	0.34	
			N468429	198.00	199.13	1.13	8.34	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
199.13	201.22	**ID Intermediate Dyke** Medium to dark gray, massive, fine grained intermediate dyke. No visible graphite. Moderately magnetic. Moderate hardness.	N468430	199.13	200.20	1.07	0.06	0.05	
			N468432	200.20	201.22	1.02	0.04	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
201.22	246.50	**GRPBX Graphitic Breccia** Dark grey, with light pinkish sections. Medium grained, pinkish grey syenite fragments in dark grey with metallic sheen graphite bearing matrix. Good to very good conductivity, graphite flooding. <50cm thick syenite sections with weak or no visible graphite at 205, 212.8 and 216m 222.55 to 223.10 syenite with no visible graphite. 228.65-229.35 syenite section with no visible graphite. 233.15-234.7 massive, medium grained syenite section with weak graphite overprint. Trace pyrite as blebs vuggy at 239.6m.	N468433	201.22	202.16	0.94	8.97	0.3	
			N468434	202.16	203.10	0.94	7.86	0.33	
			N468436	203.10	204.00	0.90	7.93	0.29	
			N468437	204.00	205.00	1.00	7.51	0.25	
			N468438	205.00	206.00	1.00	2.52	0.33	
			N468439	206.00	207.00	1.00	7.24	0.22	
			N468440	207.00	208.00	1.00	6.45	0.33	
			N468441	208.00	209.00	1.00	8.98	0.36	
			N468442	209.00	210.00	1.00	7.47	0.27	
			N468443	210.00	211.00	1.00	6.17	0.24	
			N468445	211.00	212.00	1.00	8.13	0.24	
			N468446	212.00	213.00	1.00	8.84	0.25	
			N468447	213.00	214.00	1.00	6.01	0.35	
			N468448	214.00	214.80	0.80	13.6	0.49	
			N468449	214.80	215.70	0.90	8.85	0.29	
			N468450	215.70	216.60	0.90	3	0.29	
			N468452	216.60	217.55	0.95	0.82	0.1	
			N468453	217.55	218.43	0.88	10.1	0.19	
			N468454	218.43	219.50	1.07	8.59	0.26	
			N468456	219.50	220.50	1.00	9.19	0.27	
			N468457	220.50	221.50	1.00	8.7	0.29	
			N468458	221.50	222.50	1.00	8.08	0.27	
			N468459	222.50	223.40	0.90	3.59	0.37	
			N468460	223.40	224.40	1.00	10.45	0.3	
			N468461	224.40	225.50	1.10	10.25	0.3	
			N468462	225.50	226.40	0.90	1.12	0.38	
			N468463	226.40	227.55	1.15	10.45	0.27	
			N468465	227.55	228.66	1.11	4.34	0.27	
			N468466	228.66	229.33	0.67	1.71	0.32	
			N468467	229.33	230.20	0.87	10.35	0.38	
			N468468	230.20	231.00	0.80	7.85	0.31	
			N468469	231.00	232.00	1.00	10.45	0.25	
			N468470	232.00	233.00	1.00	5.81	0.3	
			N468472	233.00	234.00	1.00	1.81	0.36	
			N468473	234.00	235.00	1.00	4.57	0.3	
			N468474	235.00	236.00	1.00	3.66	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N468476	236.00	237.00	1.00	8.67	0.25	
			N468477	237.00	238.00	1.00	5.88	0.3	
			N468478	238.00	239.00	1.00	11	0.33	
			N468479	239.00	240.00	1.00	6.73	0.54	
			N468480	240.00	241.00	1.00	4.56	0.44	
			N468481	241.00	242.00	1.00	1.78	0.42	
			N468482	242.00	243.00	1.00	2.82	0.32	
			N468483	243.00	244.00	1.00	4.08	0.4	
			N468485	244.00	244.80	0.80	2.74	0.46	
			N468486	244.80	245.70	0.90	5.17	0.81	
			N468487	245.70	246.50	0.80	9	0.32	
246.50	- 248.72	**SYENOP Syenite with Graphitic Overprinting** Medium gray with light pink tinge, medium grained, massive syenite. Upper contact sharp at 65 dca. Lower contact grades into fractured, brecciated syenite. Weak graphite overprint as hairline fracture filling veinlets from 248.4 to 248.72.	N468488	246.50	247.60	1.10	0.74	0.33	
			N468489	247.60	248.72	1.12	0.77	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
248.72	315.00	**GRPBX Graphitic Breccia** Graphitic breccia with dark grey to pinkish grey, medium grained syenite fragments in graphite flooded matrix. Locally graphite veins 1-2cm. Good conductivity. Few syenite sections with weak to moderate graphite content as described below: 265.65 to 266.83 syenite with weak to moderate graphite content as 1mm fracture filling graphite veinlets. 278.35 to 282 dark grey, syenite section with hairline fracture filling graphite veinlets. Moderate graphite content. 282.0-285 good graphitic breccia with mixed mafic dyke and syenite fragments. Graphite flooding and veinlets in the matrix. 285 to 286.8 syenite section, no visible graphite. 292.8 to 294.5 massive syenite section with moderate graphite veinlets 293.2 to 293.5. 304.65 to 306.68 dark grey to pinkish grey, fine grained syenite? Similar composition to coarser grained syenite, more biotite content and weak foliation at 65 dca. Moderate graphite as fracture filling veinlets from 306 to 306.68. 307.33 to 315 graphite breccia sections alternate with less fractured/veined syenite intervals. Breccia from 307.33 to 310.6. 310.6 to 313.6 massive syenite with moderate graphite as veinlets from 310.7 to 311.5 and weak graphite from 312 to 313.6. 313.6 to 315 graphite breccia with graphite flooding and dark green, mafic dyke fragments at 313.6 and 314.2.	N468490	248.72	249.70	0.98	6.36	0.33	
			N468492	249.70	250.80	1.10	8.67	0.61	
			N468493	250.80	251.90	1.10	10.35	0.33	
			N468494	251.90	253.00	1.10	8.62	0.25	
			N468496	253.00	254.00	1.00	8.48	0.28	
			N468497	254.00	255.00	1.00	9.5	0.27	
			N468498	255.00	256.00	1.00	14	0.23	
			N468499	256.00	257.00	1.00	13.9	0.28	
			N468500	257.00	258.00	1.00	8.43	0.35	
			N468501	258.00	259.00	1.00	2.78	0.39	
			N468502	259.00	260.00	1.00	2.58	0.35	
			N468503	260.00	261.00	1.00	3	0.34	
			N468505	261.00	262.00	1.00	6.8	0.29	
			N468506	262.00	263.00	1.00	8.32	0.3	
			N468507	263.00	264.00	1.00	7.26	0.28	
			N468508	264.00	265.00	1.00	9.65	0.2	
			N468509	265.00	265.65	0.65	16	0.4	
			N468510	265.65	266.83	1.18	0.84	0.15	
			N468512	266.83	268.00	1.17	11.35	0.26	
			N468513	268.00	269.00	1.00	4.42	0.18	
			N468514	269.00	270.00	1.00	9.69	0.28	
			N468516	270.00	271.00	1.00	7.11	0.54	
			N468517	271.00	272.00	1.00	3.64	0.38	
			N468518	272.00	273.00	1.00	4.81	0.33	
			N468519	273.00	274.00	1.00	2.59	0.36	
			N468520	274.00	275.00	1.00	4.62	0.32	
			N468521	275.00	276.00	1.00	4.84	0.24	
			N468522	276.00	277.00	1.00	6.88	0.28	
			N468523	277.00	278.00	1.00	6.5	0.3	
			N468525	278.00	279.00	1.00	4.15	0.15	
			N468526	279.00	280.00	1.00	1.06	0.15	
			N468527	280.00	281.00	1.00	0.69	0.24	
			N468528	281.00	282.00	1.00	1.13	0.35	
			N468529	282.00	283.00	1.00	5.35	0.31	
			N468530	283.00	284.00	1.00	5.7	0.17	
			N468532	284.00	285.05	1.05	10.15	0.26	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N468533	285.05	285.90	0.85	0.33	0.32	
		N468534	285.90	286.80	0.90	0.52	0.29	
		N468536	286.80	287.80	1.00	8.57	0.32	
		N468537	287.80	288.80	1.00	5.04	0.3	
		N468538	288.80	289.90	1.10	2.64	0.25	
		N468539	289.90	290.90	1.00	6.32	0.35	
		N468540	290.90	291.70	0.80	6.6	0.33	
		N468541	291.70	292.80	1.10	6.45	0.26	
		N468542	292.80	293.60	0.80	4.23	0.27	
		N468543	293.60	294.50	0.90	1.28	0.25	
		N468545	294.50	295.00	0.50	4.52	0.2	
		N468546	295.00	296.00	1.00	7.17	0.28	
		N468547	296.00	297.00	1.00	1.44	0.36	
		N468548	297.00	297.70	0.70	0.84	0.34	
		N468549	297.70	298.47	0.77	1.77	0.35	
		N468550	298.47	299.15	0.68	1.86	0.17	
		N468552	299.15	299.80	0.65	11	0.27	
		N468553	299.80	300.90	1.10	5.53	0.15	
		N468554	300.90	301.90	1.00	9.05	0.3	
		N468556	301.90	303.00	1.10	1.85	0.34	
		N468557	303.00	304.00	1.00	0.6	0.37	
		N468558	304.00	304.65	0.65	6.12	0.21	
		N468559	304.65	305.55	0.90	0.71	0.17	
		N468560	305.55	306.68	1.13	3.2	0.14	
		N468561	306.68	307.33	0.65	0.17	0.3	
		N468562	307.33	308.20	0.87	4.41	0.19	
		N468563	308.20	309.10	0.90	7.46	0.22	
		N468565	309.10	310.00	0.90	5.28	0.12	
		N468566	310.00	310.60	0.60	3.49	0.07	
		N468567	310.60	311.55	0.95	2.21	0.33	
		N468568	311.55	312.50	0.95	0.42	0.34	
		N468569	312.50	313.60	1.10	0.91	0.21	
		N468570	313.60	314.30	0.70	5.21	0.21	
		N468572	314.30	315.00	0.70	4.51	0.3	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
315.00	374.67	**SYENOP Syenite with Graphitic Overprinting** Medium to light grey with light pink sections, medium grained, massive syenite. Very weak graphite overprint as hairline veinlets and weak conductivity from 319.9 to 321; at 331.55. Trace pyrite at 332.3. Weak conductivity at 338.4. From352.8 to 353.6 1-3mm black veinlets moderate conductivity. Trace pyrite at 354.2 and 354.4. Minor fault at 358, fault gouge, broken core. Graphite on fracture faces. From 361 to 362.2 weak conductivity, hairline black veinlets. From 362.5 to 364.4 fractured core sub parallel to core axis.	N468573	315.00	316.00	1.00	0.04	0.14	
			N468574	316.00	316.95	0.95	0.22	0.04	
			N468576	316.95	317.65	0.70	1.2	0.11	
			N468577	317.65	318.80	1.15	0.09	0.08	
			N468578	318.80	319.90	1.10	0.42	0.29	
			N468579	319.90	321.00	1.10	0.61	0.49	
			N468580	321.00	322.00	1.00	0.22	0.21	
			N468581	322.00	323.00	1.00	0.31	0.26	
			N468582	323.00	324.00	1.00	0.29	0.2	
			N468583	324.00	325.00	1.00	0.51	0.19	
			N468585	325.00	325.75	0.75	0.4	0.3	
			N468586	325.75	326.41	0.66	0.02	0.14	
			N468587	326.41	327.26	0.85	0.37	0.22	
			N468588	327.26	328.30	1.04	0.04	0.04	
			N468589	328.30	329.40	1.10	0.04	0.06	
			N468590	329.40	330.20	0.80	0.03	0.02	
			N468592	330.20	331.10	0.90	0.23	0.2	
			N468593	331.10	332.00	0.90	0.81	0.32	
			N468594	332.00	333.00	1.00	0.26	0.26	
			N468596	333.00	334.00	1.00	0.15	0.2	
			N468597	334.00	335.00	1.00	0.09	0.2	
			N468598	335.00	336.00	1.00	0.1	0.21	
			N468599	336.00	337.00	1.00	0.08	0.17	
			N468600	337.00	338.00	1.00	0.13	0.22	
			N468601	338.00	339.00	1.00	0.28	0.24	
			N468602	339.00	340.00	1.00	0.41	0.25	
			N468603	340.00	341.00	1.00	0.09	0.2	
			N468605	341.00	342.00	1.00	0.09	0.19	
			N468606	342.00	343.00	1.00	0.08	0.23	
			N468607	343.00	344.00	1.00	0.16	0.22	
			N468608	344.00	345.00	1.00	0.14	0.15	
			N468609	345.00	346.00	1.00	0.19	0.11	
			N468610	346.00	347.00	1.00	0.11	0.2	
			N468612	347.00	348.00	1.00	0.09	0.24	
			N468613	348.00	349.00	1.00	0.23	0.22	
			N468614	349.00	350.00	1.00	0.1	0.22	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N468616	350.00	351.00	1.00	0.08	0.18	
		N468617	351.00	352.00	1.00	0.06	0.14	
		N468618	352.00	353.00	1.00	0.45	0.29	
		N468619	353.00	354.00	1.00	0.79	1.68	
		N468620	354.00	355.00	1.00	0.21	0.62	
		N468621	355.00	356.00	1.00	0.13	0.18	
		N468622	356.00	357.00	1.00	0.42	0.19	
		N468623	357.00	358.00	1.00	0.52	0.17	
		N468625	358.00	359.00	1.00	0.19	0.14	
		N468626	359.00	360.00	1.00	0.1	0.13	
		N468627	360.00	361.00	1.00	0.17	0.34	
		N468628	361.00	362.00	1.00	0.41	0.29	
		N468629	362.00	363.00	1.00	0.26	0.25	
		N468630	363.00	364.00	1.00	0.21	0.26	
		N468632	364.00	365.00	1.00	0.11	0.29	
		N468633	365.00	366.00	1.00	0.08	0.25	
		N468634	366.00	367.00	1.00	0.14	0.21	
		N468636	367.00	368.00	1.00	0.2	0.18	
		N468637	368.00	369.00	1.00	0.14	0.23	
		N468638	369.00	370.00	1.00	0.03	0.15	
		N468639	370.00	371.00	1.00	0.12	0.23	
		N468640	371.00	372.00	1.00	0.14	0.26	
		N468641	372.00	373.00	1.00	0.18	0.22	
		N468642	373.00	373.80	0.80	0.1	0.21	
		N468643	373.80	374.67	0.87	0.06	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
374.67	384.99	**FD Felsic Dyke** Medium grey, fine to very fine grained, massive felsic intrusive. Upper contact sharp at 50 dca. Lower contact sharp at 90 dca. Thin, irregular syenite injections from upper contact to 376.5.	N468645	374.67	376.00	1.33	0.01	0.03	2.68
			N468646	376.00	377.15	1.15	0.01	0.02	2.69
			N468647	377.15	378.45	1.30	0.02	0.03	2.69
			N468648	378.45	379.50	1.05	0.27	0.13	2.62
			N468649	379.50	380.03	0.53	0.39	0.13	
			N468650	380.03	381.40	1.37	0.01	0.11	
			N468652	381.40	382.50	1.10	0.01	0.04	
			N468653	382.50	383.80	1.30	0.01	0.08	
			N468654	383.80	384.99	1.19	0.01	0.03	
384.99	424.50	**SYENSL Syenite Sill (unmineralized)** Light to medium grey with a greenish tinge. Massive, medium grained, "gabbroic texture". Locally weakly magnetic. Euhedral plagioclase up to 4mm in coarser sections with interstitial chlorite and minor biotite. Trace Po at 402.6. Few chlorite veinlets 10-15mm thick at various angles to ca from 397 to 403.10m. 405.13 to 405.6 felsic dyke at 60 dca. Light grey, fine grained massive. Hairline fracture filling Po veinlet parallel to CA from 409 to 409.8. and specks of Po at 410.1m. 418.6-418.9 blocky core, gouge on fracture faces. Fault. 420.4-420.7 fault. Broken core, angular fragments.1-5cm. EOH 425.5m	N468656	384.99	386.50	1.51	0.01	0.02	
			N468657	386.50	388.00	1.50	0.01	0.01	
			N468658	388.00	389.50	1.50	0.01	0.02	
			N468659	389.50	391.00	1.50	0.01	0.01	
			N468660	391.00	392.50	1.50	0.01	0.03	
			N468661	392.50	394.00	1.50	0.01	0.05	
			N468662	394.00	395.50	1.50	0.01	0.03	
			N468663	395.50	397.00	1.50	0.01	0.03	
			N468665	397.00	398.00	1.00	0.01	0.02	2.69
			N468666	398.00	399.00	1.00	0.01	0.11	2.7
			N468667	399.00	400.00	1.00	0.01	0.05	2.7
			N468668	400.00	401.00	1.00	0.01	0.02	2.69
			N468669	401.00	402.00	1.00	0.01	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	668.00	23/04/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545590.4	683088.6			Reflex APS	03/05/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.50	315.30		-49.50	Chibougamau Diamond Drilling	05/05/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	A. Peshkepia/M. Roberts	M.Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	596	*Casing Pulled*	*Casing (1)*	72.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test east pipe from the southeast.	106.32m to 395.69m graphite rich breccia and over printed sysenite package with some intrusive dyking. 395.69m to 421.25m unmineralized syenite sill. 421.25m to 558.00m second graphite and overprinted syenite package. From 118.00m to 544.00m, the assays averaged 3.02% Cg over 426.00m; within this intersection a higher grade graphite zone from 146.00m to 332.28m averaged 4.87% Cg over 186.28m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
75.00			327.9	318.9	-50.3	-50.3	☑	Reflex EZ	46206	
120.00			327.2	318.2	-50.7	-50.7	☑	Reflex EZ	56276	
354.00			331.7	322.7	-52.6	-52.6	☑	Reflex EZ	56390	
357.00			332.6	323.6	-52.7	-52.7	☑	Reflex EZ	56530	
363.00			331.8	322.8	-52.7	-52.7	☑	Reflex EZ	56400	
366.00			332.1	323.1	-52.7	-52.7	☑	Reflex EZ	56339	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
369.00			331.5	322.5	-52.9	-52.9	☑	Reflex EZ	56372	
372.00			332.4	323.4	-52.7	-52.7	☑	Reflex EZ	56434	
375.00			331.2	322.2	-53	-53	☑	Reflex EZ	56410	
378.00			331.3	322.3	-53	-53	☑	Reflex EZ	56190	
387.00			332.4	323.4	-53.1	-53.1	☑	Reflex EZ	56337	
390.00			331.7	322.7	-53.2	-53.2	☑	Reflex EZ	56200	
393.00			332.4	323.4	-53	-53	☑	Reflex EZ	56450	
396.00			332.3	323.3	-53	-53	☑	Reflex EZ	56303	
399.00			332.6	323.6	-53	-53	☑	Reflex EZ	56132	
402.00			332.6	323.6	-53	-53	☑	Reflex EZ	56323	
408.00			332.3	323.3	-53.2	-53.2	☑	Reflex EZ	56241	
411.00			331.6	322.6	-53.4	-53.4	☑	Reflex EZ	56198	
414.00			333	324	-53.2	-53.2	☑	Reflex EZ	56303	
417.00			333	324	-53.2	-53.2	☑	Reflex EZ	56206	
420.00			332.2	323.2	-53.4	-53.4	☑	Reflex EZ	56315	
426.00			333.5	324.5	-53.2	-53.2	☑	Reflex EZ	56028	
429.00			332.5	323.5	-53.3	-53.3	☑	Reflex EZ	56307	
435.00			332.6	323.6	-53.3	-53.3	☑	Reflex EZ	56354	
438.00			332.4	323.4	-53.4	-53.4	☑	Reflex EZ	56428	
441.00			333.1	324.1	-53.3	-53.3	☑	Reflex EZ	56402	
444.00			333	324	-53.3	-53.3	☑	Reflex EZ	56481	
447.00			333.6	324.6	-53.3	-53.3	☑	Reflex EZ	56669	
450.00			334.3	325.3	-52.5	-52.5	☑	Reflex EZ	56295	
453.00			332.6	323.6	-53.7	-53.7	☑	Reflex EZ	56336	
456.00			333.7	324.7	-53.3	-53.3	☑	Reflex EZ	56441	
459.00			333.5	324.5	-53.5	-53.5	☑	Reflex EZ	56525	
462.00			332.6	323.6	-53.6	-53.6	☑	Reflex EZ	56444	
465.00			332.6	323.6	-53.6	-53.6	☑	Reflex EZ	56309	
468.00			333.8	324.8	-53.4	-53.4	☑	Reflex EZ	56423	
471.00			333.8	324.8	-53.4	-53.4	☑	Reflex EZ	56310	
474.00			332.7	323.7	-53.7	-53.7	☑	Reflex EZ	56380	
477.00			333.3	324.3	-53.7	-53.7	☑	Reflex EZ	56418	
483.00			333.5	324.5	-53.6	-53.6	☑	Reflex EZ	56338	
486.00			334	325	-53.5	-53.5	☑	Reflex EZ	56436	
489.00			334.4	325.4	-53.3	-53.3	☑	Reflex EZ	56494	
492.00			333.4	324.4	-53.8	-53.8	☑	Reflex EZ	56478	
495.00			334	325	-53.6	-53.6	☑	Reflex EZ	56590	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
498.00			333.6	324.6	-53.8	-53.8	☑	Reflex EZ	56494	
501.00			333.2	324.2	-53.8	-53.8	☑	Reflex EZ	56603	
504.00			332.5	323.5	-54.3	-54.3	☑	Reflex EZ	56462	
507.00			333.6	324.6	-53.9	-53.9	☑	Reflex EZ	56399	
510.00			333.9	324.9	-53.9	-53.9	☑	Reflex EZ	56363	
513.00			335	326	-53.7	-53.7	☑	Reflex EZ	56599	
516.00			334.7	325.7	-53.7	-53.7	☑	Reflex EZ	56559	
519.00			334.9	325.9	-53.7	-53.7	☑	Reflex EZ	56452	
522.00			335	326	-53.7	-53.7	☑	Reflex EZ	56451	
525.00			334.3	325.3	-53.9	-53.9	☑	Reflex EZ	56412	
528.00			335.1	326.1	-53.8	-53.8	☑	Reflex EZ	56496	
531.00			329.8	320.8	-53.7	-53.7	☑	Reflex EZ	60960	
534.00			334.3	325.3	-54	-54	☑	Reflex EZ	56506	
537.00			335.5	326.5	-53.9	-53.9	☑	Reflex EZ	56543	
540.00			335.5	326.5	-53.9	-53.9	☑	Reflex EZ	56531	
543.00			335.2	326.2	-53.9	-53.9	☑	Reflex EZ	56513	
546.00			334.8	325.8	-54	-54	☑	Reflex EZ	56488	
549.00			335.4	326.4	-54.1	-54.1	☑	Reflex EZ	56528	
552.00			335.6	326.6	-53.9	-53.9	☑	Reflex EZ	56466	
555.00			335.4	326.4	-53.9	-53.9	☑	Reflex EZ	56512	
558.00			335	326	-54.5	-54.5	☑	Reflex EZ	56463	
561.00			335	326	-54.1	-54.1	☑	Reflex EZ	56469	
564.00			334.9	325.9	-54.2	-54.2	☑	Reflex EZ	56504	
567.00			336	327	-54.1	-54.1	☑	Reflex EZ	56421	
570.00			336.4	327.4	-54	-54	☑	Reflex EZ	56527	
573.00			335.2	326.2	-54.2	-54.2	☑	Reflex EZ	56541	
576.00			336.5	327.5	-54.1	-54.1	☑	Reflex EZ	56498	
579.00			336	327	-54	-54	☑	Reflex EZ	56551	
582.00			336.6	327.6	-54.1	-54.1	☑	Reflex EZ	56431	
585.00			335	326	-54.2	-54.2	☑	Reflex EZ	56260	
588.00			336.5	327.5	-54.2	-54.2	☑	Reflex EZ	56510	
591.00			335.3	326.3	-54.3	-54.3	☑	Reflex EZ	56494	
594.00			335.6	326.6	-54.3	-54.3	☑	Reflex EZ	56504	
597.00			335.5	326.5	-54.4	-54.4	☑	Reflex EZ	56506	
600.00			336.3	327.3	-54.4	-54.4	☑	Reflex EZ	56668	
603.00			336.1	327.1	-54.3	-54.3	☑	Reflex EZ	56549	
606.00			336.7	327.7	-54.2	-54.2	☑	Reflex EZ	56540	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
609.00			336.2	327.2	-54.2	-54.2	☑	Reflex EZ	56505	
612.00			336.8	327.8	-54.2	-54.2	☑	Reflex EZ	56551	
615.00			336.7	327.7	-54.3	-54.3	☑	Reflex EZ	56547	
618.00			336	327	-54.3	-54.3	☑	Reflex EZ	56523	
621.00			336.7	327.7	-54.2	-54.2	☑	Reflex EZ	56620	
627.00			337.1	328.1	-54.2	-54.2	☑	Reflex EZ	56559	
630.00			337.2	328.2	-53.4	-53.4	☑	Reflex EZ	56466	
633.00			336.4	327.4	-54.1	-54.1	☑	Reflex EZ	56458	
636.00			336.5	327.5	-54.2	-54.2	☑	Reflex EZ	56017	
639.00			336.7	327.7	-54.2	-54.2	☑	Reflex EZ	56570	
642.00			336.1	327.1	-54.2	-54.2	☑	Reflex EZ	56501	
645.00			336.2	327.2	-54.3	-54.3	☑	Reflex EZ	56545	
648.00			336.6	327.6	-54.2	-54.2	☑	Reflex EZ	56157	
651.00			335.9	326.9	-54.2	-54.2	☑	Reflex EZ	56490	
654.00			336.7	327.7	-54.2	-54.2	☑	Reflex EZ	56197	
657.00			337.3	328.3	-54	-54	☑	Reflex EZ	56515	
660.00			337.2	328.2	-54.2	-54.2	☑	Reflex EZ	56460	
663.00			336.2	327.2	-54.1	-54.1	☑	Reflex EZ	56533	
666.00			336.2	327.2	-54.2	-54.2	☑	Reflex EZ	56509	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	64.00	**OB Overburden** Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles, glacially rounded rocks and boulders. Rounded rocks of sedimentary and igneous intrusive basement from 1cm to 5cm in diameter.							
64.00	66.50	**SED Sediment** Aphanitic to very fine grained limestone. Some brachial remnants. Unit is very blocky and broken. 64.75 to 64.95 mud. Unknown lower contact angle.							
66.50	84.25	**SYEN Syenite** Orange and dark green syenite. Unit is mostly blocky and faulted. 66.50 to 67.80 Chloritic and weathered to a light green. 67.80 to 75.00 fault zone. Unit is strongly weathered and fractured with several faults and fractures of all sorts of angles. 70.10 to 71.00 2-5cm chloritic fault gouge at 10 dca. Very strong hematite alteration as well. 79.40 to 80.90 strongly weathered. Lower contact sharp at 27 dca.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
84.25	100.32	**MD Mafic Dyke** Biotite mafic intrusive with 10% interbedded syenite gneiss. Unit is dark green with black/brown biotite and orange and dark grey interbeds of gneiss. Unit is medium grained and moderately hard. Unit is grading towards a schist. Biotite foliates between 15 and 25 dca. 95.2 weak graphite fracture filling. 86.87 to 87.00 removed for thin section. 98.60 to 98.82 Syenite at 24 dca 98.97 to 99.12 Syenite at 52 dca. Lower contact at 28 dca.	N468670	90.00	91.00	1.00	0.05	0.02	
			N468672	91.00	92.00	1.00	0.05	0.03	
			N468673	92.00	93.00	1.00	0.18	0.03	
			N468674	93.00	94.00	1.00	0.16	0.02	
			N468676	94.00	95.00	1.00	0.16	0.01	2.92
			N468677	95.00	96.00	1.00	0.32	0.02	2.79
			N468678	96.00	97.00	1.00	0.19	0.02	2.83
			N468679	97.00	98.00	1.00	0.21	0.02	2.73
			N468680	98.00	99.00	1.00	0.19	0.02	
			N468681	99.00	100.32	1.32	0.28	0.02	
100.32	106.32	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange pink orthoclase. Unit is massive and very hard with numerous fracture zones. Weak graphite overprinting throughout. 102.65 to 102.83 Fractured and or faulted with 5 mm fault gouge at 47 dca. 105.00 to strongly fractured and blocky at 25 to 55 dca. Lower contact sharp at 55 dca.	N468682	100.32	101.00	0.68	0.05	0.3	
			N468683	101.00	102.00	1.00	0.09	0.33	
			N468685	102.00	103.00	1.00	0.35	0.07	2.59
			N468686	103.00	104.00	1.00	0.51	0.04	2.59
			N468687	104.00	105.00	1.00	0.32	0.05	2.58
			N468688	105.00	106.32	1.32	0.47	0.12	2.6
106.32	108.80	**SYENSL Syenite Sill (unmineralized)** Light green with olive tinge. Massive medium grained. Very hard. Lower contact fractured.	N468689	106.32	107.00	0.68	0.04	0.04	
			N468690	107.00	108.00	1.00	0.03	0.02	
			N468692	108.00	108.80	0.80	0.04	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
108.80 -	185.96	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange and pink orthoclase tinge. Massive and very hard. Unit is moderately to strongly overprinted with graphite and fracture filling graphite is abundant. Local brecciated spots as well. 112.52 to 112.57 5cm malachite soft fault gouge at 61 dca. 119.50 to 125.40 strongly fractured. 145.74 to 147.66 chloritic fault zone. Fault gouge and very small fractured broken pieces. Upper contact at 32 dca lower contact at 27 dca. 152.23 to 152.67 Biotite mafic intrusive. Upper contact at 60 dca lower contact at 32 dca. 152.70 to 153.18 biotite mafic intrusive upper contact at 50 dca lower contact at 59 dca. 153.88 to 153.97 biotite mafic intrusive upper contact at 45 dca lower contact at 50 dca. 154.05 to 156.02 Unit is chloritic and biotitic with very strong fracturing throughout. 156.73 to 157.31 50% biotite mafic component. Upper contact 89 dca lower contact 53 dca. 161.4 to 164.09 unit becomes more brecciated? With 1-3mm graphite fracture filling. More like a healed fracture zone than a true breccia. 164.09 to 164.70 biotite mafic intrusive. Upper contact at 85 dca, lower contact at 29 dca. 167.60 to 169.60 strongly fractured. 171.00 to 172.00 10% breccia 172.03 to 172.18 biotite mafic intrusive at 30 dca. 172.00 to 175.00 40% breccia. 173.46 to 173.84 biotite mafic dyke. Upper contact at 65 dca lower contact at 47 dca. 176.60 to 176.85 chlorite biotite graphite breccia dyke. 5% graphite. At 27 dca. 178.30 to 178.90 strongly fractured. 185.81 to 185.96 biotite mafic dyke lower contact at 55 dca.	N468693	108.80	110.00	1.20	0.53	0.21	
			N468694	110.00	111.00	1.00	0.87	0.09	
			N468696	111.00	112.00	1.00	0.17	0.12	
			N468697	112.00	113.00	1.00	0.49	0.19	
			N468698	113.00	114.00	1.00	0.66	0.24	
			N468699	114.00	115.00	1.00	0.4	0.24	
			N468700	115.00	116.00	1.00	0.34	0.14	
			N468701	116.00	117.00	1.00	0.08	0.18	
			N468702	117.00	118.00	1.00	0.09	0.25	
			N468703	118.00	119.00	1.00	0.78	0.13	
			N468705	119.00	120.00	1.00	0.7	0.09	
			N468706	120.00	121.00	1.00	1.29	0.06	
			N468707	121.00	122.00	1.00	1.09	0.08	
			N468708	122.00	123.00	1.00	2.49	0.07	
			N468709	123.00	124.00	1.00	1.66	0.1	
			N468710	124.00	125.00	1.00	1.44	0.06	
			N468712	125.00	126.00	1.00	1.87	0.07	
			N468713	126.00	127.00	1.00	2.65	0.1	
			N468714	127.00	128.00	1.00	0.93	0.26	
			N468716	128.00	129.00	1.00	0.53	0.29	
			N468717	129.00	130.00	1.00	0.2	0.25	
			N468718	130.00	131.00	1.00	0.35	0.25	
			N468719	131.00	132.00	1.00	0.2	0.29	
			N468720	132.00	133.00	1.00	0.25	0.33	
			N468721	133.00	134.00	1.00	0.33	0.13	
			N468722	134.00	135.00	1.00	0.33	0.26	
			N468723	135.00	136.00	1.00	0.06	0.28	
			N468725	136.00	137.00	1.00	0.11	0.22	
			N468726	137.00	138.00	1.00	0.24	0.23	
			N468727	138.00	139.00	1.00	0.12	0.22	
			N468728	139.00	140.00	1.00	0.21	0.14	
			N468729	140.00	141.00	1.00	0.47	0.07	
			N468730	141.00	142.00	1.00	0.8	0.1	
			N468732	142.00	143.00	1.00	0.36	0.26	
			N468733	143.00	144.00	1.00	0.21	0.21	
			N468734	144.00	145.00	1.00	0.53	0.07	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N468736	145.00	146.00	1.00	0.5	0.21	
		N468737	146.00	147.00	1.00	5.48	0.07	
		N468738	147.00	148.00	1.00	2.39	0.05	
		N468739	148.00	149.00	1.00	0.54	0.04	
		N468740	149.00	150.00	1.00	0.65	0.08	
		N468741	150.00	151.00	1.00	0.44	0.13	
		N468742	151.00	152.00	1.00	0.15	0.23	
		N468743	152.00	153.00	1.00	0.59	0.1	
		N468745	153.00	154.00	1.00	0.33	0.03	
		N468746	154.00	155.00	1.00	0.35	0.06	
		N468747	155.00	156.00	1.00	0.17	0.06	
		N468748	156.00	157.00	1.00	0.77	0.05	
		N468749	157.00	158.00	1.00	0.91	0.1	
		N468750	158.00	159.00	1.00	1.88	0.08	
		N468752	159.00	160.00	1.00	1.44	0.12	
		N468753	160.00	161.00	1.00	0.51	0.12	
		N468754	161.00	162.00	1.00	1.75	0.2	
		N468756	162.00	163.00	1.00	4.32	0.18	
		N468757	163.00	164.00	1.00	2.67	0.08	
		N468758	164.00	165.00	1.00	1.11	0.07	
		N468759	165.00	166.00	1.00	1.85	0.34	
		N468760	166.00	167.00	1.00	0.8	0.35	
		N468761	167.00	168.00	1.00	1.39	0.36	
		N468762	168.00	169.00	1.00	1.15	0.4	
		N468763	169.00	170.00	1.00	2.72	0.22	
		N468765	170.00	171.00	1.00	1.38	0.05	
		N468766	171.00	172.00	1.00	3.99	0.09	
		N468767	172.00	173.00	1.00	3.37	0.25	
		N468768	173.00	174.00	1.00	5.19	0.08	
		N468769	174.00	175.00	1.00	5.79	0.58	
		N468770	175.00	176.00	1.00	10.1	0.31	
		N468772	176.00	177.00	1.00	4.21	0.15	
		N468773	177.00	178.00	1.00	3.8	0.27	
		N468774	178.00	179.00	1.00	7.24	0.22	
		N468776	179.00	180.00	1.00	8.33	0.26	
		N468777	180.00	181.00	1.00	2.23	0.86	
		N468778	181.00	182.00	1.00	2.96	0.71	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N468779	182.00	183.00	1.00	5.43	0.3	
		N468780	183.00	184.00	1.00	2.39	0.33	
		N468781	184.00	185.00	1.00	2.08	0.35	
		N468782	185.00	185.96	0.96	2.53	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
185.96	217.70	**GRPBX Graphitic Breccia** Dark grey with light grey and some orange syenite remnants. Massive and very hard. Unit is strongly overprinted with graphite replacement matrix in breccia proper. 195.30 to 195.49 Biotite mafic dyke at 53 dca. Lower contact very irregular at 20 dca.	N468783	185.96	187.00	1.04	6.69	0.21	
			N468785	187.00	188.00	1.00	9.55	0.31	
			N468786	188.00	189.00	1.00	7.65	0.47	
			N468787	189.00	190.00	1.00	9.9	0.36	
			N468788	190.00	191.00	1.00	4.74	0.26	
			N468789	191.00	192.00	1.00	6.56	0.26	
			N468790	192.00	193.00	1.00	9.86	0.24	
			N468792	193.00	194.00	1.00	8.56	0.32	
			N468793	194.00	195.00	1.00	5.11	0.54	
			N468794	195.00	196.00	1.00	6.15	0.17	
			N468796	196.00	197.00	1.00	2.4	0.53	2.73
			N468797	197.00	198.00	1.00	1.33	0.45	2.56
			N468798	198.00	199.00	1.00	5.84	0.33	2.59
			N468799	199.00	200.00	1.00	9.26	0.31	2.57
			N468800	200.00	201.00	1.00	9.95	0.32	
			N468801	201.00	202.00	1.00	4.68	0.26	
			N468802	202.00	203.00	1.00	5.83	0.28	
			N468803	203.00	204.00	1.00	9.05	0.4	
			N468805	204.00	205.00	1.00	8.06	0.49	
			N468806	205.00	206.00	1.00	6.77	0.27	
			N468807	206.00	207.00	1.00	4.23	0.21	
			N468808	207.00	208.00	1.00	0.81	0.29	
			N468809	208.00	209.00	1.00	7.97	0.26	
			N468810	209.00	210.00	1.00	6.64	0.38	
			N468812	210.00	211.00	1.00	8.5	0.42	
			N468813	211.00	212.00	1.00	8.67	0.36	
			N468814	212.00	213.00	1.00	7.05	0.35	
			N468816	213.00	214.00	1.00	7.6	0.27	
			N468817	214.00	215.00	1.00	2.1	0.51	
			N468818	215.00	216.00	1.00	8.36	0.24	
			N468819	216.00	217.00	1.00	6.49	0.34	
			N468820	217.00	217.70	0.70	8.29	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
217.70 -	220.04	**SYENOP Syenite with Graphitic Overprinting** Light grey to dark grey massive gneiss. Very hard. Moderate graphite overprinting. 219.73 to 220.04 Separated gneiss. Upper contact at 123 dca. Lower contact sharp at 41 dca.	N468821	217.70	219.00	1.30	0.18	0.24	
			N468822	219.00	220.04	1.04	0.46	0.25	
220.04 -	224.93	**GRPBX Graphitic Breccia** Dark grey with light grey and some orange syenite remnants. Massive and very hard. Unit is strongly overprinted with graphite replacement matrix in breccia. Lower contact sharp at 49 dca.	N468823	220.04	221.00	0.96	7.57	0.28	
			N468825	221.00	222.00	1.00	8.15	0.32	
			N468826	222.00	223.00	1.00	4.61	0.41	
			N468827	223.00	224.00	1.00	7.63	0.28	
			N468828	224.00	224.93	0.93	7.15	0.25	
224.93 -	226.06	**GR Granite** Pink to orange massive granite intrusive. Very hard. Fracture filling pyrite. Lower contact sharp at 49 dca.	N468829	224.93	226.06	1.13	0.03	0.74	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
226.06	241.50	**GRPBX Graphitic Breccia** Dark grey with light grey and some orange syenite remnants. Massive and very hard. Unit is strongly overprinted with graphite replacement matrix in breccia. 227.64 to 228.22 Biotite chlorite mafic dyke at 53 dca. Lower contact ground at 90 dca.	N468830	226.06	227.00	0.94	6.57	0.26	
			N468832	227.00	227.64	0.64	10.2	0.29	
			N468833	227.64	228.22	0.58	1.7	0.05	
			N468834	228.22	229.00	0.78	12.9	0.21	
			N468836	229.00	230.00	1.00	5.04	0.28	
			N468837	230.00	231.00	1.00	1.01	0.34	
			N468838	231.00	232.00	1.00	0.63	0.49	
			N468839	232.00	233.00	1.00	2.34	0.39	
			N468840	233.00	234.00	1.00	7.04	0.28	
			N468841	234.00	235.00	1.00	11.4	0.23	
			N468842	235.00	236.00	1.00	5.54	0.3	
			N468843	236.00	237.00	1.00	8	0.39	
			N468845	237.00	238.00	1.00	4.74	0.32	
			N468846	238.00	239.00	1.00	10.65	0.41	
			N468847	239.00	240.00	1.00	4.42	0.29	
			N468848	240.00	241.00	1.00	3.55	0.38	
			N468849	241.00	241.50	0.50	7.99	0.38	
241.50	244.93	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive gneiss or granodiorite. Very hard with moderate graphite overprinting. Lower contact ground at 90 dca.	N468850	241.50	242.00	0.50	0.68	0.37	
			N468852	242.00	243.00	1.00	0.37	0.36	
			N468853	243.00	244.00	1.00	0.23	0.32	
			N468854	244.00	244.93	0.93	0.54	0.42	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
244.93	286.80	**GRPBX Graphitic Breccia** Dark grey with light grey and some orange syenite remnants. Massive and very hard. Unit is strongly overprinted with graphite replacement matrix in breccia. Up to 20% graphite overprinted syenite gneiss locally. 264.00 to 267.00 20% Syenite 273.00 to 274.00 20% syenite 274.64 to 274.83 Chloritic alteration of breccia fragments. 277.70 to 278.00 Biotite chlorite alteration. 279.58 to 279.76 Granite dyke at 43 dca. 280.00 to 285.00 20% syenite. Lower contact at 62 dca.	N468856	244.93	246.00	1.07	10.25	0.3	
			N468857	246.00	247.00	1.00	13.2	0.3	
			N468858	247.00	248.00	1.00	10.1	0.31	
			N468859	248.00	249.00	1.00	9.46	0.28	
			N468860	249.00	250.00	1.00	14	0.31	
			N468861	250.00	251.00	1.00	7.46	0.27	
			N468862	251.00	252.00	1.00	12.5	0.29	
			N468863	252.00	253.00	1.00	10.95	0.26	
			N468865	253.00	254.00	1.00	8.17	0.25	
			N468866	254.00	255.00	1.00	12.2	0.37	
			N468867	255.00	256.00	1.00	11.4	0.28	
			N468868	256.00	257.00	1.00	7.6	0.21	
			N468869	257.00	258.00	1.00	9.69	0.35	
			N468870	258.00	259.00	1.00	8.32	0.49	
			N468872	259.00	260.00	1.00	2.78	0.78	
			N468873	260.00	261.00	1.00	3.29	0.33	
			N468874	261.00	262.00	1.00	1.39	0.29	
			N468876	262.00	263.00	1.00	1.45	0.27	
			N468877	263.00	264.00	1.00	3.68	0.33	
			N468878	264.00	265.00	1.00	1.64	0.23	
			N468879	265.00	266.00	1.00	0.92	0.27	
			N468880	266.00	267.00	1.00	0.86	0.26	
			N468881	267.00	268.00	1.00	3.24	0.25	
			N468882	268.00	269.00	1.00	8.33	0.31	
			N468883	269.00	270.00	1.00	6.79	0.29	
			N468885	270.00	271.00	1.00	3.7	0.29	
			N468886	271.00	272.00	1.00	7.86	0.28	
			N468887	272.00	273.00	1.00	7.64	0.34	
			N468888	273.00	274.00	1.00	2.72	0.38	
			N468889	274.00	275.00	1.00	5.02	0.21	
			N468890	275.00	276.00	1.00	5.2	0.33	
			N468892	276.00	277.00	1.00	3.62	0.29	
			N468893	277.00	278.00	1.00	3.34	0.28	
			N468894	278.00	279.00	1.00	11.9	0.2	
			N468896	279.00	280.00	1.00	7.62	0.43	
			N468897	280.00	281.00	1.00	2.99	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N468898	281.00	282.00	1.00	4.29	0.3	
			N468899	282.00	283.00	1.00	3.46	0.29	
			N468900	283.00	284.00	1.00	0.24	0.34	
			N468901	284.00	285.00	1.00	1.7	0.31	
			N468902	285.00	286.00	1.00	5.41	0.34	
			N468903	286.00	286.80	0.80	8.51	0.67	
286.80	289.81	**SYENOP Syenite with Graphitic Overprinting**							
		Light to dark grey massive syenite with weak to moderate graphite overprinting. Very hard. 289.13 to 289.43 chloritic mafic dyke at 45 dca. Lower contact sharp at 25 dca.	N468905	286.80	288.00	1.20	0.37	0.37	
			N468906	288.00	289.13	1.13	0.75	0.17	
			N468907	289.13	289.81	0.68	0.89	0.36	
289.81	294.38	**GRPBX Graphitic Breccia**							
		Dark grey to very dark grey breccia unit. Well brecciated with local overprinted syenite. 290.29 to 290.98 overprinted syenite at 109 to 141 dca. 293.63 to 293.77 overprinted syenite at 67 dca. Lower contact at 46 dca. Lower contact at 46 dca.	N468908	289.81	291.00	1.19	6.58	0.27	
			N468909	291.00	292.00	1.00	6.02	0.21	
			N468910	292.00	293.00	1.00	10.85	0.26	
			N468912	293.00	294.38	1.38	5.83	0.38	
294.38	299.06	**SYENOP Syenite with Graphitic Overprinting**							
		Light to dark grey massive syenite with weak to moderate graphite overprinting and fracture filling. Local breccia at 295.59 to 296.00m at 61 to 47 dca. Lower contact ground at 90 dca.	N468913	294.38	295.59	1.21	1.61	0.28	
			N468914	295.59	296.00	0.41	11.95	0.2	
			N468916	296.00	297.00	1.00	1.1	0.3	
			N468917	297.00	298.00	1.00	0.27	0.39	
			N468918	298.00	299.06	1.06	0.55	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
299.06	300.06	**GRPBX Graphitic Breccia** Very dark grey strongly mineralized graphitic breccia. Lower contact sharp at 57 dca.	N468919	299.06	300.06	1.00	8.08	0.37	
300.06	310.59	**SYENOP Syenite with Graphitic Overprinting** Dark grey massive syenite with moderate graphite overprinting and fracture filling. Local brecciated units throughout. 302.88 to 303.05 breccia at 60 dca. 306.38 to 306.44 breccia at 53 dca. 306.69 to 306.89 breccia at 70 to 43 dca. 307.24 to 307.67 breccia at 51 to 90 dca. 307.89 to 308.24 breccia at 31 to 41 dca. Lower contact at 65 dca.	N468920	300.06	301.00	0.94	0.63	0.32	
			N468921	301.00	302.00	1.00	0.33	0.36	
			N468922	302.00	303.00	1.00	1.02	0.35	
			N468923	303.00	304.00	1.00	1.11	0.05	
			N468925	304.00	305.00	1.00	0.09	0.69	
			N468926	305.00	306.00	1.00	1	0.22	
			N468927	306.00	307.00	1.00	5.38	0.16	
			N468928	307.00	308.24	1.24	6.34	0.18	
			N468929	308.24	309.00	0.76	0.84	0.08	
			N468930	309.00	310.00	1.00	0.49	0.12	
			N468932	310.00	310.59	0.59	0.39	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
310.59 -	332.28	**GRPBX Graphitic Breccia** Dark to very dark grey well brecciated unit. Strong graphite presence. Local interbedded overprinted syenite. 311.22 to 311.25 granite dyke at 61 dca. 313.14 to 313.43 overprinted syenite upper contact 59 dca lower contact 110 dca. 315.42 to 315.71 granite dyke crosscutting unit at 143 dca. 318.00 to 321.00 Unit may be overprinted syenite but is so rich in graphite and near black that it remains in main unit. 326.00 to 326.43 Overprinted syenite. Upper contact ground at 90 dca, lower contact at 63 dca. 328.71 to 329.28 Fine grained dark grey/green felsic dyke at 67 dca. Lower contact at 57 dca.	N468933	310.59	311.00	0.41	7.06	0.32	
			N468934	311.00	312.00	1.00	5.72	0.29	
			N468936	312.00	313.00	1.00	8.24	0.19	
			N468937	313.00	314.00	1.00	17.4	0.1	
			N468938	314.00	315.00	1.00	10.6	0.19	
			N468939	315.00	316.00	1.00	3.95	0.21	
			N468940	316.00	317.00	1.00	6.58	0.23	
			N468941	317.00	318.00	1.00	7.68	0.26	
			N468942	318.00	319.00	1.00	1.85	0.4	
			N468943	319.00	320.00	1.00	1.75	0.38	
			N468945	320.00	321.00	1.00	5.23	0.29	
			N468946	321.00	322.00	1.00	5.61	0.24	
			N468947	322.00	323.00	1.00	3.12	0.3	
			N468948	323.00	324.00	1.00	4.54	0.31	
			N468949	324.00	325.00	1.00	5.26	0.3	
			N468950	325.00	326.00	1.00	5.41	0.24	
			N468952	326.00	326.43	0.43	1.28	0.26	
			N468953	326.43	327.00	0.57	2.98	0.08	
			N468954	327.00	328.00	1.00	5.94	0.1	
			N468956	328.00	328.71	0.71	7.25	0.23	
			N468957	328.71	329.28	0.57	0.09	0.09	
			N468958	329.28	330.00	0.72	11.5	0.11	
			N468959	330.00	331.00	1.00	3.69	0.28	
			N468960	331.00	332.28	1.28	4.66	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
332.28	346.56	**SYEN Syenite** Orange with dark grey pieces. Unit is very massive and very hard. Lack of graphite overprinting but has graphite fracture filling near upper contact and a local breccia. 333.13 1cm chlorite fracture filled vein (possible grunerite) at 25 dca. 340.10 to 340.47 Graphite breccia unit. Upper contact at 43 dca, lower contact irregular at 25 dca.	N468961	332.28	333.00	0.72	1	0.05	
			N468962	333.00	334.00	1.00	1.11	0.15	
			N468963	334.00	335.00	1.00	0.38	0.06	
			N468965	335.00	336.00	1.00	0.28	0.02	2.55
			N468966	336.00	337.00	1.00	0.27	0.05	2.57
			N468967	337.00	338.00	1.00	0.22	0.02	2.58
			N468968	338.00	339.00	1.00	0.33	0.11	2.57
			N468969	339.00	340.10	1.10	0.3	0.03	
			N468970	340.10	340.47	0.37	4.48	0.17	
			N468972	340.47	341.00	0.53	0.39	0.04	
			N468973	341.00	342.00	1.00	0.2	0.03	
			N468974	342.00	343.00	1.00	0.33	0.09	
			N468976	343.00	344.00	1.00	0.32	0.08	
			N468977	344.00	345.00	1.00	0.19	0.06	
			N468978	345.00	346.00	1.00	0.13	0.02	
			N468979	346.00	346.56	0.56	0.14	0.01	
346.56	349.89	**ID Intermediate Dyke** Light to dark green massive dyke unit. Medium grained. Unit contains coarser areas than others with orthoclase in these coarser spots. Lower contact at 63dca.	N468980	346.56	348.00	1.44	0.05	0.15	
			N468981	348.00	349.00	1.00	0.08	0.08	
			N468982	349.00	349.89	0.89	0.05	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
349.89	355.83	**GRPBX Graphitic Breccia** Very dark grey. Well brecciated graphite matrix. Strong graphite content. 355.81 1cm granite dyke crosscutting unit near lower contact at 96 dca. Lower contact at 125 dca.	N468983	349.89	351.00	1.11	7.95	0.25	
			N468985	351.00	352.00	1.00	4.48	0.35	
			N468986	352.00	353.00	1.00	7.33	0.27	
			N468987	353.00	354.00	1.00	9.08	0.33	
			N468988	354.00	355.00	1.00	9.11	0.25	
			N468989	355.00	355.83	0.83	17	0.36	
355.83	374.75	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive syenite or granodiorite. Unit has weak to moderate graphite overprinting throughout. 365.20 to 365.90 Dark green medium grained massive mafic dyke. Upper contact 68 dca, lower contact 60 dca. 374.66 to 374.75 Coarse grained plagioclase and orthoclase chill margin. Upper contact at 135 dca. Lower contact at 90 dca.	N468990	355.83	357.00	1.17	1.28	0.37	
			N468992	357.00	358.00	1.00	0.82	0.48	
			N468993	358.00	359.00	1.00	1.29	0.27	
			N468994	359.00	360.00	1.00	5.37	0.27	
			N468996	360.00	361.00	1.00	1.46	0.13	
			N468997	361.00	362.00	1.00	0.19	0.32	
			N468998	362.00	363.00	1.00	0.26	0.26	
			N468999	363.00	364.00	1.00	0.17	0.25	
			N469000	364.00	365.20	1.20	0.22	0.31	
			N469001	365.20	365.90	0.70	0.01	0.09	
			N469002	365.90	367.00	1.10	0.15	0.31	
			N469003	367.00	368.00	1.00	0.21	0.35	
			N469005	368.00	369.00	1.00	0.46	0.26	
			N469006	369.00	370.00	1.00	0.1	0.22	
			N469007	370.00	371.00	1.00	0.51	0.34	
			N469008	371.00	372.00	1.00	0.36	0.35	
			N469009	372.00	373.00	1.00	0.21	0.27	
			N469010	373.00	374.00	1.00	0.37	0.33	
			N469012	374.00	374.75	0.75	0.38	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
374.75	385.51	**MD Mafic Dyke** A mixture of fine to medium to coarse grained mafic intrusives. Massive and hard. Unit is light to medium green in colour. Lower contact sharp at 45 dca.	N469013	374.75	376.00	1.25	0.07	0.04	
			N469014	376.00	377.00	1.00	0.07	0.01	
			N469016	377.00	378.00	1.00	0.05	0.02	2.69
			N469017	378.00	379.50	1.50	0.11	0.03	2.68
			N469018	379.50	381.00	1.50	0.06	0.03	2.69
			N469019	381.00	382.50	1.50	0.07	0.04	2.68
			N469020	382.50	384.00	1.50	0.08	0.06	
			N469021	384.00	385.51	1.51	0.04	0.06	
385.51	395.69	**SYENOP Syenite with Graphitic Overprinting** Light grey massive syenite or granodiorite with moderate graphite overprinting and fracture filling. Unit is very hard. Lower contact hard to pick up but at 71 dca.	N469022	385.51	386.00	0.49	0.49	0.36	
			N469023	386.00	387.00	1.00	0.27	0.33	
			N469025	387.00	388.00	1.00	0.64	0.38	
			N469026	388.00	389.00	1.00	0.67	0.35	
			N469027	389.00	390.00	1.00	0.53	0.33	
			N469028	390.00	391.00	1.00	0.36	0.19	
			N469029	391.00	392.00	1.00	0.92	0.28	
			N469030	392.00	393.00	1.00	1.04	0.4	
			N469032	393.00	394.00	1.00	1.21	0.33	
			N469033	394.00	395.00	1.00	1.04	0.33	
			N469034	395.00	395.69	0.69	1.5	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
395.69	431.25	**SYENSL Syenite Sill (unmineralized)** Very light green to very dark green massive mafic intrusive. Unit is medium grained (diabase like) to coarse grained (gabbroic texture). Unit somewhat has an olive (ine) tinge. Very hard.	N469036	395.69	397.00	1.31	0.06	0.08	
			N469037	397.00	398.50	1.50	0.15	0.1	
			N469038	398.50	400.00	1.50	0.06	0.07	
			N469039	400.00	401.50	1.50	0.05	0.03	
			N469040	401.50	403.00	1.50	0.01	0.04	
			N469041	403.00	404.50	1.50	0.04	0.05	
			N469042	404.50	406.00	1.50	0.05	0.02	
			N469043	406.00	407.50	1.50	0.03	0.05	
			N469045	407.50	409.00	1.50	0.04	0.01	
			N469046	409.00	410.50	1.50	0.02	0.02	
			N469047	410.50	412.00	1.50	0.05	0.03	
			N469048	412.00	413.50	1.50	0.04	0.01	
			N469049	413.50	415.00	1.50	0.01	0.03	
			N469050	415.00	416.50	1.50	0.08	0.01	
			N469052	416.50	418.00	1.50	0.05	0.02	
			N469053	418.00	419.50	1.50	0.05	0.05	
			N469054	419.50	421.00	1.50	0.05	0.02	
			N469056	421.00	422.50	1.50	0.06	0.005	
			N469057	422.50	424.00	1.50	0.05	0.005	
			N469058	424.00	425.50	1.50	0.05	0.02	
			N469059	425.50	427.00	1.50	0.05	0.01	
			N469060	427.00	428.50	1.50	0.03	0.02	
			N469061	428.50	430.00	1.50	0.05	0.05	
			N469062	430.00	431.25	1.25	0.23	0.18	
431.25	434.25	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive syenite or granodiorite. Very hard. 431.25 to 431.77 70% Graphitic breccia. Lower contact sharp at 70 dca.	N469063	431.25	432.00	0.75	7.88	0.27	
			N469065	432.00	433.00	1.00	0.35	0.35	
			N469066	433.00	434.25	1.25	0.9	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
434.25	456.00	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix. Well brecciated for most of the unit. Unit is very hard. Unit becomes more of a mix of breccia and overprinted to flooded syenite down hole with a 50/50 mix but abundance of graphite even in overprinted sections keeps the unit as GRPBX. 438.19 to 438.86 overprinted syenite 438.86 to 439.12 chloritic graphitic mafic dyke upper contact 40 dca lower contact 33 dca. 439.65 to 456.00 strongly overprinted syenite and breccia mix upper contact sharp at 47 dca. Lower contact gradational.	N469067	434.25	435.00	0.75	11.4	0.24	
			N469068	435.00	436.00	1.00	9.2	0.21	
			N469069	436.00	437.00	1.00	9.33	0.22	
			N469070	437.00	438.00	1.00	8.05	0.24	
			N469072	438.00	439.12	1.12	4.74	0.24	
			N469073	439.12	440.00	0.88	9.03	0.18	
			N469074	440.00	441.00	1.00	0.81	0.31	
			N469076	441.00	442.00	1.00	6.43	0.26	
			N469077	442.00	443.00	1.00	5.25	0.22	
			N469078	443.00	444.00	1.00	3.67	0.19	
			N469079	444.00	445.00	1.00	1.72	0.27	
			N469080	445.00	446.00	1.00	8.69	0.28	
			N469081	446.00	447.00	1.00	5.54	0.37	
			N469082	447.00	448.00	1.00	0.7	0.32	
			N469083	448.00	449.00	1.00	0.96	0.32	
			N469085	449.00	450.00	1.00	2.99	0.27	
			N469086	450.00	451.00	1.00	4.35	0.31	
			N469087	451.00	452.00	1.00	0.9	0.3	
			N469088	452.00	453.00	1.00	14.4	0.27	
			N469089	453.00	454.00	1.00	4.45	0.15	
			N469090	454.00	455.00	1.00	2.33	0.34	
			N469092	455.00	456.00	1.00	0.83	0.33	
456.00	461.17	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive syenite with weak to moderated graphite overprinting and fracture filling. Very hard. Lower contact sharp at 31 dca.	N469093	456.00	457.00	1.00	0.51	0.34	
			N469094	457.00	458.00	1.00	0.43	0.16	
			N469096	458.00	459.00	1.00	0.64	0.31	
			N469097	459.00	460.00	1.00	0.88	0.31	
			N469098	460.00	461.17	1.17	0.49	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
461.17	462.28	**GRPBX Graphitic Breccia** Dark grey well brecciated unit. Well mineralized with graphite matrix. Lower contact sharp at 75 dca.	N469099	461.17	462.28	1.11	4.9	0.27	
462.28	474.84	**MD Mafic Dyke** As previous intrusive units. Light to dark green. Medium grained to coarser grained. Massive. Very hard. Lower contact at 61 dca.	N469100	462.28	463.00	0.72	0.09	0.05	
			N469101	463.00	464.50	1.50	0.08	0.03	
			N469102	464.50	466.00	1.50	0.05	0.01	
			N469103	466.00	467.50	1.50	0.04	0.02	
			N469105	467.50	469.00	1.50	0.07	0.01	
			N469106	469.00	470.50	1.50	0.04	0.02	
			N469107	470.50	472.00	1.50	0.04	0.02	
			N469108	472.00	473.50	1.50	0.05	0.07	
			N469109	473.50	474.84	1.34	0.03	0.15	
474.84	479.14	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive syenite with weak to moderate graphite overprinting and fracture filling. Lower contact gradational at 41 dca.	N469110	474.84	476.00	1.16	0.31	0.44	
			N469112	476.00	477.00	1.00	0.3	0.37	
			N469113	477.00	478.00	1.00	0.86	0.32	
			N469114	478.00	479.14	1.14	1.24	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
479.14	484.25	**GRPBX Graphitic Breccia** Dark grey fairly well mineralized breccia with 5-10% graphite matrix. 40% syenite with good graphite overprinting. Lower contact sharp at 57 dca.	N469116	479.14	480.00	0.86	6.22	0.34	
			N469117	480.00	481.00	1.00	8.72	0.38	
			N469118	481.00	482.00	1.00	2.75	0.32	
			N469119	482.00	483.00	1.00	2.98	0.32	
			N469120	483.00	484.25	1.25	2.04	0.32	
484.25	490.80	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey massive syenite. Unit turns pink and orange down hole. Weak graphite overprinting. Lower contact sharp at 19 dca.	N469121	484.25	485.00	0.75	0.64	0.34	
			N469122	485.00	486.00	1.00	0.27	0.37	
			N469123	486.00	487.00	1.00	0.53	0.27	
			N469125	487.00	488.00	1.00	0.27	0.04	
			N469126	488.00	489.00	1.00	0.29	0.05	
			N469127	489.00	490.00	1.00	0.25	0.05	
			N469128	490.00	490.80	0.80	0.17	0.03	
490.80	492.00	**FLT Fault Zone** Chloritic altered syenite. Broken and blocky. No visible graphite. Fractures from 19 to 35 dca. Not a fan of calling lithologies fault zones. Lower contact at 35 dca.	N469129	490.80	492.00	1.20	0.17	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
492.00 -	496.60	**GRPBX Graphitic Breccia** Dark grey well brecciated unit. From 492 to 494.15 still part of fault zone. 493.00 to 494.15 Overprinted syenite. Note low angles of contacts in the area from 490.8 to 511. Brecciation appears to come cut across or the dykes do. Lower contact sharp at 23 dca.	N469130	492.00	493.00	1.00	7.92	0.17	
			N469132	493.00	494.15	1.15	1.09	0.55	
			N469133	494.15	495.00	0.85	9.47	0.25	
			N469134	495.00	496.00	1.00	11	0.58	
			N469136	496.00	496.60	0.60	3.9	0.21	
496.60 -	503.53	**SYENOP Syenite with Graphitic Overprinting** Light grey to darker with orange tinge. Massive and very hard. Moderate graphite fracture filling and overprinting. Lower contact at 60 dca.	N469137	496.60	498.00	1.40	2.06	0.23	
			N469138	498.00	499.00	1.00	1.26	0.26	
			N469139	499.00	500.00	1.00	0.59	0.26	
			N469140	500.00	501.00	1.00	0.37	0.13	
			N469141	501.00	502.00	1.00	0.39	0.16	
			N469142	502.00	503.00	1.00	0.47	0.34	
			N469143	503.00	503.53	0.53	1.62	0.3	
503.53 -	511.39	**GRPBX Graphitic Breccia** Dark grey well brecciated unit. 40% overprinted syenite. Very hard. 508.77 to 509.02 biotite mafic dyke at 67 dca. 509.44 to 509.48 biotite mafic dyke at 65 dca. 510.20 to 510.40 chlorite altered breccia at 24 dca. Lower contact at 71 dca.	N469145	503.53	504.00	0.47	12.5	1.29	
			N469146	504.00	505.00	1.00	5.11	0.36	
			N469147	505.00	506.00	1.00	2.56	0.28	
			N469148	506.00	507.00	1.00	2.85	0.26	
			N469149	507.00	508.00	1.00	2.82	0.18	
			N469150	508.00	509.02	1.02	2.96	0.2	
			N469152	509.02	510.00	0.98	8.89	0.17	
			N469153	510.00	511.39	1.39	4.88	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
511.39 -	512.56	**MD Mafic Dyke** Dark to very light green dykes. Medium grained to coarse grained. 511.39 to 511.75 medium grained dyke at 71 dca. 511.75 to 512.56 coarse grained dyke. Lower contact at 70 dca.	N469154	511.39	512.56	1.17	0.01	0.05	
512.56 -	516.49	**GRPBX Graphitic Breccia** Dark grey with lighter 20% graphite overprinted syenite. Very hard. Lower contact at 66 dca.	N469156	512.56	513.00	0.44	0.98	0.07	
			N469157	513.00	514.00	1.00	1.3	0.07	
			N469158	514.00	515.00	1.00	10.15	0.06	
			N469159	515.00	516.00	1.00	11.6	0.09	
			N469160	516.00	516.49	0.49	4.62	0.24	
516.49 -	529.73	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Moderate graphite overprinting and fracture filling. 519.66 to 520.15 Felsic dyke at 60 dca. 525.05 to 525.42 felsic dyke upper contact 90 dca lower contact at 49 dca. Lower contact at 40 dca.	N469161	516.49	517.00	0.51	0.38	0.3	
			N469162	517.00	518.00	1.00	0.32	0.32	
			N469163	518.00	519.00	1.00	0.57	0.35	
			N469165	519.00	519.66	0.66	0.31	0.29	
			N469166	519.66	520.15	0.49	0.06	0.08	
			N469167	520.15	521.00	0.85	0.2	0.21	
			N469168	521.00	522.00	1.00	0.37	0.27	
			N469169	522.00	523.00	1.00	0.11	0.34	
			N469170	523.00	524.00	1.00	0.29	0.27	
			N469172	524.00	524.05	0.05	0.1	0.26	
			N469173	524.05	525.42	1.37	0.05	0.05	
			N469174	525.42	526.00	0.58	0.13	0.24	
			N469176	526.00	527.00	1.00	0.17	0.22	
			N469177	527.00	528.00	1.00	0.17	0.15	
			N469178	528.00	529.00	1.00	0.43	0.18	
			N469179	529.00	529.73	0.73	0.3	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
529.73	530.96	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green moderately hard with 5% biotite and 5% graphite. Biotite and graphite foliated at 30 to 40 dca. 1% calcite with brown biotite alteration near both contacts. Lower contact at 30 dca.	N469180	529.73	530.96	1.23	0.25	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
530.96 -	558.00	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Moderate graphite overprinting and fracture filling. 537.79 to 537.86 Graphite flooding at 52 dca. 537.87 to 538.53 Mafic dyke lower contact 5cm of calcite and chlorite fault gouge at 55 dca. 552.44 to 552.56 Felsic dyke. Upper contact at 77 dca. Lower contact very irregular at 50 dca. 553.81 to 554.32 Felsic dyke Upper contact at 55 dca. Lower contact 10 cm of chloritic fault gouge at 55 dca. 555.14 to 556.04 Intermediate dyke. Upper contact at 73 dca. Lower contact at 47 dca. Lower contact at 90 dca.	N469181	530.96	532.00	1.04	2.24	1.39	
			N469182	532.00	533.00	1.00	0.52	0.3	
			N469183	533.00	534.00	1.00	0.18	0.26	
			N469185	534.00	535.00	1.00	0.15	0.26	
			N469186	535.00	536.00	1.00	0.52	0.26	
			N469187	536.00	537.00	1.00	0.62	0.2	
			N469188	537.00	537.86	0.86	1.65	0.34	
			N469189	537.86	538.53	0.67	1.84	0.56	
			N469190	538.53	539.00	0.47	1.26	0.13	
			N469192	539.00	540.00	1.00	0.55	0.26	
			N469193	540.00	541.00	1.00	0.67	0.35	
			N469194	541.00	542.00	1.00	0.91	0.32	
			N469196	542.00	543.00	1.00	0.89	0.23	
			N469197	543.00	544.00	1.00	0.76	0.33	
			N469198	544.00	545.00	1.00	0.25	0.26	
			N469199	545.00	546.00	1.00	0.15	0.22	
			N469200	546.00	547.00	1.00	0.17	0.21	
			N469201	547.00	548.00	1.00	0.25	0.21	
			N469202	548.00	549.00	1.00	0.15	0.28	
			N469203	549.00	550.00	1.00	0.06	0.19	
			N469205	550.00	551.00	1.00	0.07	0.15	
			N469206	551.00	552.00	1.00	0.11	0.21	
			N469207	552.00	553.00	1.00	0.09	0.15	
			N469208	553.00	553.81	0.81	0.07	0.15	
			N469209	553.81	554.32	0.51	0.06	0.13	
			N469210	554.32	555.14	0.82	0.12	0.16	
			N469212	555.14	556.04	0.90	0.02	0.17	
			N469213	556.04	557.00	0.96	0.81	0.27	
			N469214	557.00	558.00	1.00	0.48	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
558.00	575.31	**MD Mafic Dyke** Light green to green with some orange and pink tinges. Medium to coarse grained. Massive dykes. Very hard. Lower contact at 39 dca.	N469216	558.00	559.50	1.50	0.04	0.29	
			N469217	559.50	561.00	1.50	0.04	0.11	
			N469218	561.00	562.50	1.50	0.04	0.03	
			N469219	562.50	564.00	1.50	0.03	0.03	
			N469220	564.00	565.50	1.50	0.02	0.03	
			N469221	565.50	567.00	1.50	0.02	0.02	
			N469222	567.00	568.50	1.50	0.02	0.03	
			N469223	568.50	570.00	1.50	0.04	0.04	
			N469225	570.00	571.50	1.50	0.03	0.02	
			N469226	571.50	573.00	1.50	0.02	0.03	
			N469227	573.00	574.00	1.00	0.03	0.02	
			N469228	574.00	575.31	1.31	0.04	0.05	
575.31	576.29	**SYEN Syenite** Light grey to orange. Medium grained salt and pepper texture. Massive. Very hard. Lower contact at 53 dca.	N469229	575.31	576.29	0.98	0.04	0.07	
576.29	579.34	**MD Mafic Dyke** Dark green. Medium grained mafic intrusive. Very hard and massive. 579 to 579.34 Chloritic alteration. 1% pyrrhotite. 579.27 to 579.34 Brecciated fault 1% graphite. At 33dca. Lower contact at 57 dca.	N469230	576.29	577.00	0.71	0.04	0.05	
			N469232	577.00	578.00	1.00	0.03	0.03	
			N469233	578.00	579.34	1.34	0.07	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
579.34	629.27	**SYEN Syenite** Orange and light grey to white. Gneiss or granite. Massive. Very hard. Unit has very minor local graphite. 580.35 to 580.38 biotite mafic dyke at 39 dca. 580.50 to 580.75 biotite chlorite graphite mafic dyke at 23 to 30 dca. 581.96 to 582.70 Intermediate dyke at 35 to 47 dca. 584.03 to 584.17 Chlorite biotite mafic dyke with 1mm graphite seam at lower contact at 47 dca. 586.87 to 587.07 mafic dyke at 53 dca. 588.71 to 589.57 mafic dyke at 30 upper contact and 17 lower contact 597.13 to 597.45 intermediate dyke at 41 upper contact and 17 dca lower contact. 601.82 to 602.09 quartz vein at 39 dca. 613.60 to 618.48 Unit is extremely weathered do to faulting and water. Dark orange to red granite? Vuggy loss of quartz or plagioclase. Broken and blocky. Upper contact gradational (not really a contact just the extent of the weathering). Lower contact sharp graphite gouge at 47 dca. 618.48 to 618.58 Graphite and chlorite fault gouge soft lower contact at 47 dca. 618.58 to 618.79 Mafic dyke lower contact at 47 dca. 618.79 to 619.14 Granite or syenite lower contact at 47 dca. 619.14 to 619.37 mafic dyke with graphite lower contact at 47 dca. 621 to 622 trace graphite fracture filling. 626.87 to 627.50 Intermediate to diabasic dyke medium grained. At 72 dca. Lower contact at 67 dca.						
			N469234	579.34	580.00	0.66	0.2	0.14	
			N469236	580.00	581.00	1.00	0.7	0.28	
			N469237	581.00	581.96	0.96	0.24	0.14	
			N469238	581.96	582.70	0.74	0.03	0.05	
			N469239	582.70	584.03	1.33	0.24	0.2	
			N469240	584.03	585.00	0.97	1.05	0.13	
			N469241	585.00	586.00	1.00	0.09	0.13	
			N469242	586.00	586.87	0.87	0.06	0.13	
			N469243	586.87	588.00	1.13	0.18	0.15	
			N469245	588.00	588.71	0.71	0.03	0.05	
			N469246	588.71	589.57	0.86	0.1	0.04	
			N469247	589.57	591.00	1.43	0.08	0.2	
			N469248	591.00	592.50	1.50	0.1	0.21	
			N469249	592.50	594.00	1.50	0.07	0.19	
			N469250	594.00	595.50	1.50	0.08	0.17	
			N469252	595.50	597.00	1.50	0.06	0.17	
			N469253	597.00	598.50	1.50	0.04	0.08	
			N469254	598.50	600.00	1.50	0.1	0.15	
			N469256	600.00	601.50	1.50	0.04	0.07	
			N469257	601.50	603.00	1.50	0.03	0.06	
			N469258	603.00	604.50	1.50	0.03	0.06	
			N469259	604.50	606.00	1.50	0.03	0.05	
			N469260	606.00	607.50	1.50	0.03	0.03	
			N469261	607.50	609.00	1.50	0.04	0.03	
			N469262	609.00	610.50	1.50	0.07	0.02	
			N469263	610.50	612.00	1.50	0.04	0.03	
			N469265	612.00	613.50	1.50	0.03	0.02	
			N469266	613.50	615.00	1.50	0.09	0.05	
			N469267	615.00	616.00	1.00	0.12	0.04	
			N469268	616.00	617.00	1.00	0.16	0.04	
			N469269	617.00	618.48	1.48	0.16	0.04	
			N469270	618.48	619.37	0.89	0.79	0.07	
			N469272	619.37	620.00	0.63	0.14	0.13	
			N469273	620.00	621.00	1.00	0.07	0.07	
			N469274	621.00	622.00	1.00	0.05	0.08	
			N469276	622.00	623.00	1.00	0.06	0.17	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
			N469277	623.00	624.00	1.00	0.07	0.13	
			N469278	624.00	625.00	1.00	0.05	0.11	
			N469279	625.00	626.00	1.00	0.07	0.04	
			N469280	626.00	626.87	0.87	0.04	0.09	
629.27	659.85	**SYENSL Syenite Sill (unmineralized)** A mixture of fine to coarse grained mafic to intermediate dykes. Light green to olive green. Massive with local salt and pepper textures of dioritic to granodioritic with dark orange tinges locally. Very hard and barren except 1mm of graphite fracture filling at 639.50m. Lower contact at 61 dca.							
659.85	668.00	**SYEN Syenite** Barren gneiss/granite unit. Pink with salt and pepper texture. Very hard. EOH 668.0m							

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	411.80	04/05/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545606	682862.3			Reflex APS	08/05/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.00	53.40		-50.40	Chibougamau Diamond Drilling	10/05/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	347.8	*Casing Pulled*	*Casing (1)*	64.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East Pipe from Southwest	This hole intersected 84.74m of graphitic breccia from 172.00m to 256.74m with minor intervals of graphite overprinted syenite and an intermediate dike. Graphite mineralized zone (overprinting and graphitic breccia) was intersected from 63.30m to 365.15m (301.85m). The assays from 60.00m to 360.00m averaged 2.16% Cg over 300.00m; within this intersection a higher grade graphite zone from 132.00m to 256.74m averaged 4.64% Cg over 124.74m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
210.00			63	54	-50.8	-50.8	☑	Reflex EZ	56037	
213.00			63	54	-50.8	-50.8	☑	Reflex EZ	55732	
216.00			63.7	54.7	-50.8	-50.8	☑	Reflex EZ	56188	
219.00			62.2	53.2	-50.9	-50.9	☑	Reflex EZ	55942	
225.00			62.7	53.7	-50.8	-50.8	☑	Reflex EZ	56140	
237.00			64	55	-51	-51	☑	Reflex EZ	56125	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
246.00			63.8	54.8	-50.8	-50.8	☑	Reflex EZ	56156	
258.00			63.8	54.8	-51	-51	☑	Reflex EZ	56109	
261.00			63.2	54.2	-50.9	-50.9	☑	Reflex EZ	56138	
264.00			64	55	-50.9	-50.9	☑	Reflex EZ	56134	
270.00			62.9	53.9	-50.9	-50.9	☑	Reflex EZ	56144	
276.00			64	55	-50.8	-50.8	☑	Reflex EZ	56163	
279.00			63.8	54.8	-50.7	-50.7	☑	Reflex EZ	56194	
282.00			63.4	54.4	-50.6	-50.6	☑	Reflex EZ	56135	
285.00			63.9	54.9	-50.8	-50.8	☑	Reflex EZ	56163	
288.00			63.4	54.4	-50.8	-50.8	☑	Reflex EZ	56190	
291.00			63.9	54.9	-50.9	-50.9	☑	Reflex EZ	56131	
294.00			63.2	54.2	-50.8	-50.8	☑	Reflex EZ	56138	
300.00			63.2	54.2	-50.7	-50.7	☑	Reflex EZ	56156	
303.00			63.4	54.4	-50.7	-50.7	☑	Reflex EZ	56145	
306.00			63.5	54.5	-50.9	-50.9	☑	Reflex EZ	56097	
309.00			64	55	-50.8	-50.8	☑	Reflex EZ	56128	
315.00			64.3	55.3	-50.8	-50.8	☑	Reflex EZ	56057	
318.00			64.1	55.1	-50.8	-50.8	☑	Reflex EZ	56136	
321.00			63.7	54.7	-50.9	-50.9	☑	Reflex EZ	56120	
324.00			63.5	54.5	-50.8	-50.8	☑	Reflex EZ	56179	
327.00			64.2	55.2	-50.6	-50.6	☑	Reflex EZ	56195	
330.00			64.4	55.4	-50.7	-50.7	☑	Reflex EZ	56045	
333.00			64.8	55.8	-50.8	-50.8	☑	Reflex EZ	55957	
336.00			64.5	55.5	-50.7	-50.7	☑	Reflex EZ	56185	
339.00			64.6	55.6	-50.7	-50.7	☑	Reflex EZ	56011	
342.00			64.1	55.1	-50.8	-50.8	☑	Reflex EZ	55963	
348.00			63.6	54.6	-50.6	-50.6	☑	Reflex EZ	56219	
351.00			64.7	55.7	-50.6	-50.6	☑	Reflex EZ	56154	
354.00			63.5	54.5	-50.6	-50.6	☑	Reflex EZ	56161	
357.00			64.7	55.7	-50.7	-50.7	☑	Reflex EZ	56161	
360.00			64.3	55.3	-50.7	-50.7	☑	Reflex EZ	56124	
369.00			63.6	54.6	-50.7	-50.7	☑	Reflex EZ	56273	
372.00			64.1	55.1	-50.6	-50.6	☑	Reflex EZ	56214	
375.00			64.5	55.5	-50.7	-50.7	☑	Reflex EZ	56013	
384.00			64.7	55.7	-50.7	-50.7	☑	Reflex EZ	56215	
387.00			64.6	55.6	-50.6	-50.6	☑	Reflex EZ	56243	
390.00			65	56	-50.6	-50.6	☑	Reflex EZ	56163	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
393.00			64.1	55.1	-50.6	-50.6	☑	Reflex EZ	56183	
396.00			63.7	54.7	-50.5	-50.5	☑	Reflex EZ	56188	
399.00			65.5	56.5	-50.7	-50.7	☑	Reflex EZ	56025	
402.00			65.8	56.8	-50.7	-50.7	☑	Reflex EZ	56004	
408.00			64.8	55.8	-50.7	-50.7	☑	Reflex EZ	56274	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	51.00	**OB Overburden** Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles, glacially rounded rocks and boulders. Rounded rocks of sedimentary and igneous intrusive basement from 1cm to 5cm in diameter.							
51.00	54.23	**SED Sediment** Unknown start of unit. 5-10cm rounded sediments and monzonite blocky rocks. Sediments are pale limestone. Very fine grained. Broken and blocky all contacts rounded. Lower contact at 50 dca.							
54.23	63.15	**SYEN Syenite** Orange to red "paleo" weathered syenite. Massive. Hard. Unit is mostly broken and blocky due to numerous weathered fractures and fault gouge. Glacially rebounded unit. Lower contact at 60 dca.	N469281	60.00	61.15	1.15	0.18	0.04	
			N469282	61.15	62.00	0.85	0.29	0.01	
			N469283	62.00	63.30	1.30	0.3	0.01	
63.15	63.30	**SYEN Syenite** Light green with orange undertone. Unit is chloritic altered. Massive syenite. Unable to determine graphite content. Lower contact at 68 dca.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.30	82.94	**SYENOP Syenite with Graphitic Overprinting** Orange massive very hard syenite with weak to moderate graphite overprinting and fracture filling. Most fractures are weathered. Lower contact sharp at 45 dca.	N469285	63.30	64.00	0.70	0.04	0.1	
			N469286	64.00	65.00	1.00	0.22	0.03	2.68
			N469287	65.00	66.00	1.00	0.12	0.05	2.61
			N469288	66.00	67.00	1.00	0.12	0.08	2.61
			N469289	67.00	68.00	1.00	0.05	0.06	2.66
			N469290	68.00	69.00	1.00	0.26	0.09	
			N469291	68.00	69.00	1.00	0.3	0.1	
			N469292	69.00	70.00	1.00	0.4	0.1	
			N469293	70.00	71.00	1.00	0.37	0.05	
			N469294	71.00	72.00	1.00	0.08	0.1	
			N469296	72.00	73.00	1.00	0.09	0.07	
			N469297	73.00	74.00	1.00	0.25	0.09	
			N469298	74.00	75.00	1.00	0.13	0.19	
			N469299	75.00	76.00	1.00	0.13	0.16	
			N469300	76.00	77.00	1.00	0.26	0.11	
			N469301	77.00	78.00	1.00	0.23	0.12	
			N469302	78.00	79.00	1.00	0.13	0.14	
			N469303	79.00	80.00	1.00	0.12	0.11	
			N469305	80.00	81.00	1.00	0.07	0.14	
			N469306	81.00	82.00	1.00	0.26	0.09	
			N469307	82.00	82.94	0.94	0.15	0.07	
82.94	85.91	**ID Intermediate Dyke** Medium grained massive intermediate to mafic intrusive. Unit contains 5-10% orthoclase but lacks quartz and plagioclase. Very hard. Contains <1% fracture filling graphite at contact between two intermediate dykes. 82.94 to 83.73 Intermediate dyke. Lower contact comes across plane at 45 dca. 83.73 to 85.91 Intermediate Dyke Lower contact at 60 dca.	N469308	82.94	83.73	0.79	0.13	0.02	
			N469309	83.73	85.00	1.27	0.13	0.01	
			N469311	85.00	85.91	0.91	0.12	0.01	
			N469310	85.00	85.91	0.91	0.12	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.91	- 142.21	**SYENOP Syenite with Graphitic Overprinting** Orange to dark grey with white plagioclase and quartz. Massive syenite. Very hard. Moderate graphite overprinting and fracture filling throughout. Local minor chloritic and finer grained banding. Unable to determine actual contacts at these intervals and I suspect that they are just different cooling stages and or gneissic banding. 89.47 1cm light green fault gouge at 49 dca. 90.10 to 90.30 Strongly fractured at 30 to 150 dca. 109.25 1cm fault gouge at 25 dca. Lower contact at 90 dca.	N469312	85.91	87.00	1.09	0.22	0.08	
			N469313	87.00	88.00	1.00	0.72	0.1	
			N469314	88.00	89.00	1.00	0.39	0.06	
			N469316	89.00	90.00	1.00	0.12	0.09	2.6
			N469317	90.00	91.00	1.00	0.16	0.06	2.67
			N469318	91.00	92.00	1.00	0.39	0.11	2.72
			N469319	92.00	93.00	1.00	0.19	0.14	2.67
			N469320	93.00	94.00	1.00	0.07	0.17	
			N469321	94.00	95.00	1.00	0.19	0.22	
			N469322	95.00	96.00	1.00	0.04	0.2	
			N469323	96.00	97.00	1.00	0.06	0.17	
			N469325	97.00	98.00	1.00	0.02	0.21	
			N469326	98.00	99.00	1.00	0.09	0.25	
			N469327	99.00	100.00	1.00	0.12	0.2	
			N469328	100.00	101.00	1.00	0.26	0.02	
			N469329	101.00	102.00	1.00	0.23	0.09	
			N469330	102.00	103.00	1.00	0.04	0.16	
			N469331	102.00	103.00	1.00	0.06	0.15	
			N469332	103.00	104.00	1.00	0.27	0.17	
			N469333	104.00	105.00	1.00	0.07	0.16	
			N469334	105.00	106.00	1.00	0.06	0.19	
			N469336	106.00	107.00	1.00	0.07	0.08	
			N469337	107.00	108.00	1.00	0.02	0.14	
			N469338	108.00	109.00	1.00	0.1	0.2	
			N469339	109.00	110.00	1.00	0.09	0.12	
			N469340	110.00	111.00	1.00	0.13	0.17	
			N469341	111.00	112.00	1.00	0.09	0.14	
			N469342	112.00	113.00	1.00	0.11	0.08	
			N469343	113.00	114.00	1.00	0.13	0.09	
			N469345	114.00	115.00	1.00	0.09	0.11	
			N469346	115.00	116.00	1.00	0.03	0.14	
			N469347	116.00	117.00	1.00	0.08	0.15	
			N469348	117.00	118.00	1.00	0.2	0.18	
			N469349	118.00	119.00	1.00	0.15	0.14	
			N469350	119.00	120.00	1.00	0.04	0.18	
			N469351	119.00	120.00	1.00	0.04	0.17	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N469352	120.00	121.00	1.00	0.05	0.21	
		N469353	121.00	122.00	1.00	0.64	0.19	
		N469354	122.00	123.00	1.00	0.33	0.18	
		N469356	123.00	124.00	1.00	0.08	0.21	
		N469357	124.00	125.00	1.00	0.07	0.18	
		N469358	125.00	126.00	1.00	0.12	0.2	
		N469359	126.00	127.00	1.00	0.11	0.16	
		N469360	127.00	128.00	1.00	0.11	0.2	
		N469361	128.00	129.00	1.00	0.07	0.21	
		N469362	129.00	130.00	1.00	0.07	0.18	
		N469363	130.00	131.00	1.00	0.08	0.24	
		N469365	131.00	132.00	1.00	0.15	0.18	
		N469366	132.00	133.00	1.00	0.71	0.16	
		N469367	133.00	134.00	1.00	0.8	0.24	
		N469368	134.00	135.00	1.00	0.43	0.26	
		N469369	135.00	136.00	1.00	0.34	0.25	
		N469370	136.00	137.00	1.00	0.88	0.19	
		N469371	136.00	137.00	1.00	0.84	0.18	
		N469372	137.00	138.00	1.00	1.25	0.21	
		N469373	138.00	139.00	1.00	0.75	0.2	
		N469374	139.00	140.00	1.00	0.34	0.22	
		N469376	140.00	141.00	1.00	0.95	0.26	
		N469377	141.00	142.21	1.21	0.91	0.24	
142.21 - 143.24	**MDOP Mafic Dyke with Graphitic Overprinting** Very dark green. Moderately hard. Chloritic Mafic Intrusive. Fracture filling graphite. Lower contact at 90 dca.	N469378	142.21	143.24	1.03	0.74	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
143.24	155.50	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange tinge. Massive very hard syenite. Moderate graphite overprinting and fracture filling. Lower contact fractured at 90 dca.	N469379	143.24	144.00	0.76	0.32	0.33	
			N469380	144.00	145.00	1.00	0.1	0.25	
			N469381	145.00	146.00	1.00	0.13	0.26	
			N469382	146.00	147.00	1.00	0.35	0.27	
			N469383	147.00	148.00	1.00	0.09	0.21	
			N469385	148.00	149.00	1.00	0.61	0.23	
			N469386	149.00	150.00	1.00	0.29	0.31	
			N469387	150.00	151.00	1.00	0.3	0.3	
			N469388	151.00	152.00	1.00	0.5	0.28	
			N469389	152.00	153.00	1.00	0.16	0.24	
			N469391	153.00	154.00	1.00	0.67	0.23	
			N469390	153.00	154.00	1.00	0.62	0.24	
			N469392	154.00	155.00	1.00	0.33	0.35	
			N469393	155.00	155.50	0.50	0.2	0.31	
155.50	162.00	**MDOP Mafic Dyke with Graphitic Overprinting** Very dark green chloritic mafic intrusive or possibly just strong chlorite alteration of syenite. Moderate graphite overprinting and fracture filling. Lower contact fractured at 90 dca.	N469394	155.50	156.00	0.50	0.59	0.26	
			N469396	156.00	157.00	1.00	0.66	0.13	2.83
			N469397	157.00	158.00	1.00	1.25	0.16	2.87
			N469398	158.00	159.00	1.00	1.24	0.36	2.69
			N469399	159.00	160.00	1.00	1.79	1.55	2.92
			N469400	160.00	161.00	1.00	0.31	0.18	
			N469401	161.00	162.00	1.00	0.26	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
162.00 -	166.30	**SYENOP Syenite with Graphitic Overprinting** Very dark grey with orange tinge. Massive and very hard syenite. Moderate graphite overprinting and fracture filling. Lower contact sharp at 40 dca.	N469402	162.00	163.00	1.00	0.4	0.17	
			N469403	163.00	164.00	1.00	0.28	0.2	
			N469405	164.00	165.00	1.00	0.44	0.16	
			N469406	165.00	166.30	1.30	0.91	0.26	
166.30 -	168.15	**SYENOP Syenite with Graphitic Overprinting** Dark green and dark grey. This unit is a syenite that has strong chlorite alteration overprinting. Strong graphite overprinting and fracture filling. Massive and hard this unit is likely a result of the faulting in the next 5 metres of core below this unit. Lower contact fractured or faulted at 90 dca.	N469407	166.30	167.00	0.70	0.74	0.22	
			N469408	167.00	168.15	1.15	1.61	0.11	
168.15 -	172.00	**SYENOP Syenite with Graphitic Overprinting** Very dark grey with orange and red weathered tinges (hematite?). This unit is a fault zone and is extremely fractured and blocky, with pieces 10cm down to fault gouge. Moderate to strong graphite overprinting and fracture filling. Below this unit is the breccia pipe that likely caused the faulting. Angles range from 0 to 180 degrees. Lower contact 5cm of fault gouge at 0 to 60 dca.	N469409	168.15	169.00	0.85	3.18	0.26	
			N469411	169.00	170.00	1.00	1.56	0.19	
			N469410	169.00	170.00	1.00	1.53	0.18	
			N469412	170.00	171.00	1.00	0.58	0.24	
			N469413	171.00	172.00	1.00	2.64	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
172.00 -	202.11	**GRPBX Graphitic Breccia** Very dark grey. Typical ore grade breccia zone with 1-5cm rounded, sub rounded to angular fragments in apparent pure graphite matrix. 172.00 to 174.30 Fault zone continues. 172.60 5cm fault gouge at 0 to 25 dca. 173.45 1cm fault gouge at 70 dca. 179.07 to 179.70 Chlorite and biotite alteration (shearing?) Syenite fragments within. Upper contact 39 dca lower contact 21 dca. 179.90 faulted at 45 dca. 186.65 to 186.75 fault lower contact gouge at 85 dca. Lower contact sharp at 85 dca.	N469414	172.00	173.00	1.00	6.88	0.21	
			N469416	173.00	174.00	1.00	10.6	0.21	2.55
			N469417	174.00	175.00	1.00	3.15	0.31	2.65
			N469418	175.00	176.00	1.00	5.37	0.25	2.62
			N469419	176.00	177.00	1.00	5.33	0.21	2.74
			N469420	177.00	178.00	1.00	2.78	0.32	
			N469421	178.00	179.07	1.07	3.15	0.29	
			N469422	179.07	179.70	0.63	2.83	0.08	
			N469423	179.70	181.00	1.30	5.34	0.21	
			N469425	181.00	182.00	1.00	3.84	0.19	
			N469426	182.00	183.00	1.00	1.11	0.23	
			N469427	183.00	184.00	1.00	9.36	0.28	
			N469428	184.00	185.00	1.00	11.7	0.31	
			N469429	185.00	186.00	1.00	9.74	0.33	
			N469431	186.00	187.00	1.00	8.56	0.24	
			N469430	186.00	187.00	1.00	9.56	0.29	
			N469432	187.00	188.00	1.00	3.16	0.28	
			N469433	188.00	189.00	1.00	5.92	0.24	
			N469434	189.00	190.00	1.00	5.04	0.29	
			N469436	190.00	191.00	1.00	7.1	0.31	
			N469437	191.00	192.00	1.00	12.1	0.39	
			N469438	192.00	193.00	1.00	4.08	0.37	
			N469439	193.00	194.00	1.00	8.01	0.31	
			N469440	194.00	195.00	1.00	11.9	0.49	
			N469441	195.00	196.00	1.00	4.93	0.29	
			N469442	196.00	197.00	1.00	8.52	0.32	
			N469443	197.00	198.00	1.00	6.69	0.3	
			N469445	198.00	199.00	1.00	8.21	0.37	
			N469446	199.00	200.00	1.00	10.1	0.39	
			N469447	200.00	201.00	1.00	8.44	0.47	
			N469448	201.00	202.11	1.11	10.2	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
202.11	207.34	**SYENOP Syenite with Graphitic Overprinting** Light grey. Massive syenite Very hard. Weak to moderate graphite overprinting and fracture filling. 204.26 to 204.85 Graphite breccia. Upper contact sharp at 35 dca. Lower contact sharp at 130 dca. 204.88 to 204.96 Chlorite biotite alteration shearing at 39 dca. Lower contact sharp at 45 dca.	N469449	202.11	203.00	0.89	0.9	0.44	
			N469451	203.00	204.26	1.26	0.94	0.31	
			N469450	203.00	204.26	1.26	0.93	0.32	
			N469452	204.26	204.85	0.59	8.76	0.17	
			N469453	204.85	206.00	1.15	0.67	0.17	
			N469454	206.00	207.34	1.34	0.61	0.16	
207.34	210.07	**ID Intermediate Dyke** Light grey Very hard and massive. Fine to medium grained. Lower contact fractured at 76 dca.	N469456	207.34	208.00	0.66	0.05	0.17	
			N469457	208.00	209.00	1.00	0.06	0.04	
			N469458	209.00	210.07	1.07	0.06	0.07	
210.07	222.37	**GRPBX Graphitic Breccia** Very dark grey. Typical ore grade breccia zone with 1-5cm rounded, sub rounded to angular fragments in apparent pure graphite matrix. Lower contact sharp at 47 dca.	N469459	210.07	211.00	0.93	2.44	0.14	
			N469460	211.00	212.00	1.00	10.4	0.34	
			N469461	212.00	213.00	1.00	8.8	0.39	
			N469462	213.00	214.00	1.00	9.1	0.22	
			N469463	214.00	215.00	1.00	9.25	0.39	
			N469465	215.00	216.00	1.00	5.84	0.3	
			N469466	216.00	217.00	1.00	4.5	0.22	
			N469467	217.00	218.00	1.00	18.45	0.34	
			N469468	218.00	219.00	1.00	9.56	0.37	
			N469469	219.00	220.00	1.00	7.31	0.37	
			N469471	220.00	221.00	1.00	5.73	0.31	
			N469470	220.00	221.00	1.00	4.32	0.33	
			N469472	221.00	222.37	1.37	11.6	0.54	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.37 -	224.90	**SYENOP Syenite with Graphitic Overprinting** Dark grey massive syenite with moderate graphite overprinting and fracture filling. Lower contact sharp at 51 dca.	N469473	222.37	223.00	0.63	0.26	0.4	
			N469474	223.00	224.00	1.00	0.5	0.39	
			N469476	224.00	224.90	0.90	0.41	0.4	
224.90 -	235.37	**GRPBX Graphitic Breccia** Very dark grey. Typical ore grade breccia zone with 1-5cm rounded, sub-rounded to angular fragments in apparent pure graphite matrix. 230.10 to 231.75 Fault zone broken blocky core. 231.35 to 231.75 Granite dyke at 40 dca. 233.58 to 234.69 Overprinted syenite. Upper contact sharp at 33 dca. Lower contact sharp at 59 dca. Lower contact sharp at 63 dca.	N469477	224.90	226.00	1.10	8.14	0.39	
			N469478	226.00	227.00	1.00	10.95	0.24	
			N469479	227.00	228.00	1.00	7.15	0.31	
			N469480	228.00	229.00	1.00	10.8	0.25	
			N469481	229.00	230.00	1.00	14.45	0.34	
			N469482	230.00	231.25	1.25	7.62	0.3	
			N469483	231.25	231.75	0.50	0.06	0.29	
			N469485	231.75	232.75	1.00	5.99	0.36	
			N469486	232.75	233.88	1.13	10.25	0.32	
			N469487	233.88	234.69	0.81	0.7	0.4	
			N469488	234.69	235.37	0.68	11.45	0.29	
235.37 -	236.92	**SYENOP Syenite with Graphitic Overprinting** Dark grey massive syenite with moderate graphite overprinting and fracture filling. Lower contact sharp at 43 dca.	N469489	235.37	236.00	0.63	0.81	0.38	
			N469491	236.00	236.92	0.92	3.52	0.47	
			N469490	236.00	236.92	0.92	3.43	0.42	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
236.92	256.74	**GRPBX Graphitic Breccia** Very dark grey. Typical ore grade breccia zone with 1-5cm rounded, sub-rounded to angular fragments in apparent pure graphite matrix. 248.72 to 248.82 Chlorite biotite alteration (shearing?) at 61 dca. 255.72 to 256.26 SYENOP. Upper and lower contact sharp at 60. Lower contact sharp at 45 dca.	N469492	236.92	238.00	1.08	6.73	0.34	
			N469493	238.00	239.00	1.00	6.93	0.39	
			N469494	239.00	240.00	1.00	9.99	0.39	
			N469496	240.00	241.00	1.00	8.48	0.36	
			N469497	241.00	242.00	1.00	1.16	0.43	
			N469498	242.00	243.00	1.00	6.3	0.29	
			N469499	243.00	244.00	1.00	6.33	0.31	
			N469500	244.00	245.00	1.00	14.05	0.39	
			N469501	245.00	246.00	1.00	10.55	0.33	
			N469502	246.00	247.00	1.00	5.88	0.43	
			N469503	247.00	248.00	1.00	5.74	0.4	
			N469505	248.00	249.00	1.00	9.76	0.24	
			N469506	249.00	250.00	1.00	10.8	0.32	
			N469507	250.00	251.00	1.00	5.04	0.38	
			N469508	251.00	252.00	1.00	6.25	0.3	
			N469509	252.00	253.00	1.00	9	0.37	
			N469510	253.00	254.00	1.00	0.97	0.37	
			N469511	253.00	254.00	1.00	0.89	0.37	
			N469512	254.00	255.00	1.00	2	0.36	
			N469513	255.00	255.72	0.72	3.73	0.33	
			N469514	255.72	256.26	0.54	1.84	0.3	
			N469516	256.26	256.74	0.48	9.59	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
256.74	284.33	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey with orange and pink tinges of orthoclase and plagioclase. Massive and very hard. Moderate graphite overprinting and fracture filling. 269.36 to 269.54 fractured or faulted at 60 dca. Lower contact chilled with dyke coming into hole at 20 dca.	N469517	256.74	258.00	1.26	0.33	0.52	
			N469518	258.00	259.00	1.00	0.39	0.54	
			N469519	259.00	260.00	1.00	0.67	0.62	
			N469520	260.00	261.00	1.00	0.17	0.31	
			N469521	261.00	262.00	1.00	0.16	0.31	
			N469522	262.00	263.00	1.00	0.31	0.52	
			N469523	263.00	264.00	1.00	0.36	0.39	
			N469525	264.00	265.00	1.00	0.32	0.26	
			N469526	265.00	266.00	1.00	0.66	0.17	
			N469527	266.00	267.00	1.00	0.55	0.2	
			N469528	267.00	268.00	1.00	0.42	0.12	
			N469529	268.00	269.00	1.00	0.27	0.24	
			N469531	269.00	270.00	1.00	0.16	0.3	
			N469530	269.00	270.00	1.00	0.26	0.3	
			N469532	270.00	271.00	1.00	0.21	0.32	
			N469533	271.00	272.00	1.00	0.63	0.28	
			N469534	272.00	273.00	1.00	0.33	0.35	
			N469536	273.00	274.00	1.00	0.31	0.19	
			N469537	274.00	275.00	1.00	0.22	0.32	
			N469538	275.00	276.00	1.00	0.26	0.33	
			N469539	276.00	277.00	1.00	0.18	0.32	
			N469540	277.00	278.00	1.00	0.18	0.31	
			N469541	278.00	279.00	1.00	0.44	0.36	
			N469542	279.00	280.00	1.00	0.37	0.54	
			N469543	280.00	281.00	1.00	0.4	0.35	
			N469545	281.00	282.00	1.00	0.63	0.14	
			N469546	282.00	283.00	1.00	0.67	0.24	
			N469547	283.00	284.33	1.33	0.53	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
284.33	304.63	**FDOP Felsic Dyke with Graphitic Overprinting** Dark grey to green. Mostly very fine grained with intervals of syenite and porphyry. Moderate graphite overprinting throughout. 284.33 to 288 Unit is glassy and very hard. 288 to 304.63 Unit is now fine grained with 10% porphyritic plagioclase phenocrysts intermixed what seems to be gneiss. Lower contact faulted at 51 to 144 dca.	N469548	284.33	285.00	0.67	0.38	0.22	
			N469549	285.00	286.00	1.00	0.58	0.26	
			N469550	286.00	287.00	1.00	1.36	0.29	
			N469551	286.00	287.00	1.00	1.27	0.3	
			N469552	287.00	288.00	1.00	1.2	0.3	
			N469553	288.00	289.00	1.00	0.57	0.26	
			N469554	289.00	290.00	1.00	1.61	0.47	
			N469556	290.00	291.00	1.00	0.72	0.38	2.73
			N469557	291.00	292.00	1.00	1.4	0.37	2.66
			N469558	292.00	293.00	1.00	0.38	0.22	2.7
			N469559	293.00	294.00	1.00	1.04	0.36	2.64
			N469560	294.00	295.00	1.00	0.71	0.15	
			N469561	295.00	296.00	1.00	0.36	0.18	
			N469562	296.00	297.00	1.00	0.68	0.42	
			N469563	297.00	298.00	1.00	0.36	0.62	
			N469565	298.00	299.00	1.00	0.75	0.4	
			N469566	299.00	300.00	1.00	0.15	0.35	
			N469567	300.00	301.00	1.00	0.21	0.31	
			N469568	301.00	302.00	1.00	0.43	0.49	
			N469569	302.00	303.00	1.00	0.93	0.55	
			N469570	303.00	304.00	1.00	0.72	0.4	
			N469571	303.00	304.00	1.00	0.68	0.4	
			N469572	304.00	304.63	0.63	0.47	0.44	
304.63	307.56	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange and dark green tinge. (possible granodiorite) Massive and very hard. Weak graphite. Lower contact at 61 dca.	N469573	304.63	305.00	0.37	0.26	0.56	
			N469574	305.00	306.00	1.00	1.1	0.31	
			N469576	306.00	307.00	1.00	0.32	0.49	
			N469577	307.00	307.56	0.56	0.18	0.47	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
307.56	308.57	**GR Granite** Pink massive granite. Very hard. Lower contact sharp at 37 dca.	N469578	307.56	308.57	1.01	0.09	0.67	
308.57	329.79	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange and dark green tinges. Massive and very hard. Moderate graphite overprinting and fracture filling. 324.79 to 325.08 Mafic dyke at 53 dca. Lower contact sharp at 73 dca.	N469579	308.57	309.00	0.43	0.24	0.47	
			N469580	309.00	310.00	1.00	2.46	0.7	
			N469581	310.00	311.00	1.00	0.4	0.74	
			N469582	311.00	312.00	1.00	0.39	0.68	
			N469583	312.00	313.00	1.00	1.15	0.16	
			N469585	313.00	314.00	1.00	0.4	0.25	
			N469586	314.00	315.00	1.00	2.45	0.19	
			N469587	315.00	316.00	1.00	1.42	0.21	
			N469588	316.00	317.00	1.00	1.62	0.26	
			N469589	317.00	318.00	1.00	0.55	0.53	
			N469591	318.00	319.00	1.00	0.86	0.78	
			N469590	318.00	319.00	1.00	0.84	0.79	
			N469592	319.00	320.00	1.00	0.77	0.47	
			N469593	320.00	321.00	1.00	0.82	0.53	
			N469594	321.00	322.00	1.00	0.89	0.54	
			N469596	322.00	323.00	1.00	0.41	0.55	
			N469597	323.00	324.00	1.00	0.62	0.19	
			N469598	324.00	325.08	1.08	0.65	0.21	
			N469599	325.08	326.00	0.92	0.32	0.32	
			N469600	326.00	327.00	1.00	0.48	0.39	
			N469601	327.00	328.00	1.00	0.62	0.67	
			N469602	328.00	329.00	1.00	1.19	0.53	
			N469603	329.00	329.79	0.79	0.35	0.52	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
329.79	332.40	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green. Fine to medium grained Massive and very hard. Moderate graphite overprinting and fracture filling. Lower contact at 60 dca.	N469605	329.79	331.00	1.21	0.34	0.23	
			N469606	331.00	332.00	1.00	0.13	0.17	
			N469607	332.00	332.40	0.40	0.18	0.17	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
332.40	365.15	**SYENOP Syenite with Graphitic Overprinting** Light to dark grey with orange and dark green tinges. Weak to moderate graphite overprinting and fracture filling locally. Lower contact sharp at 25 dca.	N469608	332.40	333.00	0.60	0.18	0.44	
			N469609	333.00	334.00	1.00	0.45	0.37	
			N469610	334.00	335.00	1.00	1.4	0.48	
			N469611	334.00	335.00	1.00	1.38	0.47	
			N469612	335.00	336.00	1.00	0.64	0.32	
			N469613	336.00	337.00	1.00	0.63	0.54	
			N469614	337.00	338.00	1.00	0.31	0.47	
			N469616	338.00	339.00	1.00	0.09	0.29	
			N469617	339.00	340.00	1.00	0.61	0.7	
			N469618	340.00	341.00	1.00	0.32	0.27	
			N469619	341.00	342.00	1.00	0.23	0.49	
			N469620	342.00	343.00	1.00	0.33	0.41	
			N469621	343.00	344.00	1.00	0.24	0.49	
			N469622	344.00	345.00	1.00	0.55	0.43	
			N469623	345.00	346.00	1.00	0.15	0.35	
			N469625	346.00	347.00	1.00	0.89	0.35	
			N469626	347.00	348.00	1.00	0.49	0.46	
			N469627	348.00	349.00	1.00	0.58	0.26	
			N469628	349.00	350.00	1.00	0.27	0.16	
			N469629	350.00	351.00	1.00	0.25	0.01	
			N469630	351.00	352.00	1.00	0.05	0.04	
			N469631	351.00	352.00	1.00	0.07	0.05	
			N469632	352.00	353.00	1.00	0.16	0.06	
			N469633	353.00	354.00	1.00	0.19	0.06	
			N469634	354.00	355.00	1.00	0.14	0.05	
			N469636	355.00	356.00	1.00	0.17	0.04	
			N469637	356.00	357.00	1.00	0.16	0.03	
			N469638	357.00	358.00	1.00	0.25	0.05	
			N469639	358.00	359.00	1.00	0.04	0.04	
			N469640	359.00	360.00	1.00	0.2	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
365.15 -	367.00	**FD Felsic Dyke** Fine grained light grey/green. Massive and very hard almost glassy. Unit is well fractured. Lower contact at 61 dca.							
367.00 -	374.43	**SYEN Syenite** Light grey with orange/white tinge. Massive and very hard. Unit is well fractured. 370.47 to 371.13 Felsic dyke. Upper contact at 152 dca, lower contact at 32 dca. 371.13 to 371.29 biotite chlorite mafic dyke. Lower contact at 60 dca. 371.49 to 371.57 biotite chlorite mafic dyke at 67 dca. Lower contact at 65 dca.							
374.43 -	376.04	**MD Mafic Dyke** Medium to dark green biotite chlorite mafic intrusive. Moderately hard. Massive. Lower contact at 67 dca.							
376.04 -	379.92	**SYEN Syenite** Light grey with some orange tinge but more quartz and plagioclase than most syenites likely a granodiorite. Lower contact at 119 dca.							
379.92 -	383.03	**FD Felsic Dyke** Pink to green. Massive. Very hard. Unit changes from pink granitic to fine grained intermediate intrusive. Lower contact at 53 dca.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
383.03	389.09	**SYEN Syenite** As previous syenite. Light grey with orange and white tinge. Massive and very hard. Lower contact at 72 dca.							
389.09	390.26	**MD Mafic Dyke** Light to medium green. Massive and moderately hard. Lower contact at 80 dca.							
390.26	400.53	**SYEN Syenite** Light grey with orange/white tinge of orthoclase, plagioclase and quartz. Massive. Very hard. 391.84 to 392.05 Biotite chlorite mafic dyke at 85 dca. Lower contact at 45 dca.							
400.53	404.44	**MD Mafic Dyke** Light to medium green. Massive and fine grained. Very hard. Lower contact at 45 dca.							
404.44	411.80	**SYEN Syenite** Light grey with orange white tinge of orthoclase plagioclase and quartz. Very hard and massive. EOH 411.8m							

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	530.80	09/05/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545894.4	683095.8			Reflex APS		16/05/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	123.70	231.10		-51.10	Chibougamau Diamond Drilling		17/05/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	473	*Casing Pulled*	*Casing (1)*	83.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited		

Purpose	*Results*	*Comments*
Test East Pipe from Northeast.	The hole intersected several intervals of graphitic breccia from 297.00m to 392.00m interrupted by very weakly to weakly graphite overprinted syneite intervals. From 258.00m to 393.27m, the assays averaged 2.25% Cg over 135.27m; within this intersection a higher grade graphite zone from 291.00m to 353.25m averaged 4.20% Cg over 62.25m.	NW casing was extended from 57m to 83m due to poor ground conditions. Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
153.00			241.6	232.6	-52.3	-52.3	☑	Reflex EZ	56167	
171.00			242	233	-52.1	-52.1	☑	Reflex EZ	56166	
177.00			242.4	233.4	-52	-52	☑	Reflex EZ	56118	
189.00			242.1	233.1	-52	-52	☑	Reflex EZ	56129	
192.00			242.3	233.3	-51.9	-51.9	☑	Reflex EZ	56187	
195.00			242.4	233.4	-51.9	-51.9	☑	Reflex EZ	56155	
201.00			242.5	233.5	-51.8	-51.8	☑	Reflex EZ	56213	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			242.2	233.2	-51.9	-51.9	☑	Reflex EZ	56172	
207.00			243.3	234.3	-51.7	-51.7	☑	Reflex EZ	56174	
210.00			242.4	233.4	-51.9	-51.9	☑	Reflex EZ	56158	
213.00			242.5	233.5	-51.9	-51.9	☑	Reflex EZ	56176	
216.00			243.5	234.5	-51.6	-51.6	☑	Reflex EZ	56144	
219.00			243.3	234.3	-51.8	-51.8	☑	Reflex EZ	56183	
222.00			243.4	234.4	-51.6	-51.6	☑	Reflex EZ	56149	
225.00			243.3	234.3	-51.7	-51.7	☑	Reflex EZ	56199	
228.00			242.6	233.6	-51.8	-51.8	☑	Reflex EZ	56161	
231.00			243.9	234.9	-51.6	-51.6	☑	Reflex EZ	56157	
234.00			243.8	234.8	-51.6	-51.6	☑	Reflex EZ	56148	
240.00			243.2	234.2	-51.7	-51.7	☑	Reflex EZ	56231	
249.00			242.7	233.7	-51.7	-51.7	☑	Reflex EZ	56189	
255.00			243.9	234.9	-51.5	-51.5	☑	Reflex EZ	56165	
261.00			243.1	234.1	-51.7	-51.7	☑	Reflex EZ	56154	
267.00			243.3	234.3	-51.6	-51.6	☑	Reflex EZ	56122	
270.00			244	235	-51.5	-51.5	☑	Reflex EZ	56196	
273.00			243.4	234.4	-51.6	-51.6	☑	Reflex EZ	56165	
276.00			242.8	233.8	-51.6	-51.6	☑	Reflex EZ	56139	
282.00			243.6	234.6	-51.4	-51.4	☑	Reflex EZ	56243	
285.00			243	234	-51.4	-51.4	☑	Reflex EZ	56194	
288.00			243.3	234.3	-51.4	-51.4	☑	Reflex EZ	56168	
294.00			244.4	235.4	-51.2	-51.2	☑	Reflex EZ	56202	
297.00			243.6	234.6	-51.3	-51.3	☑	Reflex EZ	56174	
300.00			243.6	234.6	-51.4	-51.4	☑	Reflex EZ	56155	
303.00			242.9	233.9	-51.4	-51.4	☑	Reflex EZ	56160	
306.00			242.9	233.9	-51.4	-51.4	☑	Reflex EZ	56168	
309.00			243.6	234.6	-51.3	-51.3	☑	Reflex EZ	56126	
312.00			243.8	234.8	-51.1	-51.1	☑	Reflex EZ	56241	
315.00			244.4	235.4	-51	-51	☑	Reflex EZ	56186	
318.00			243.6	234.6	-51.4	-51.4	☑	Reflex EZ	56194	
321.00			243.4	234.4	-51.5	-51.5	☑	Reflex EZ	56180	
324.00			244.4	235.4	-51.3	-51.3	☑	Reflex EZ	56133	
327.00			244.3	235.3	-51.4	-51.4	☑	Reflex EZ	56193	
330.00			243.7	234.7	-51.5	-51.5	☑	Reflex EZ	56237	
333.00			243.7	234.7	-51.5	-51.5	☑	Reflex EZ	56175	
336.00			243.3	234.3	-51.5	-51.5	☑	Reflex EZ	56219	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
339.00			243.2	234.2	-51.5	-51.5	☑	Reflex EZ	56141	
342.00			243.9	234.9	-51.3	-51.3	☑	Reflex EZ	56205	
345.00			244.2	235.2	-51.2	-51.2	☑	Reflex EZ	56207	
348.00			243.7	234.7	-51.3	-51.3	☑	Reflex EZ	56210	
351.00			244.3	235.3	-51	-51	☑	Reflex EZ	56237	
354.00			243.4	234.4	-51.2	-51.2	☑	Reflex EZ	56196	
357.00			243.4	234.4	-51.2	-51.2	☑	Reflex EZ	56191	
360.00			243.6	234.6	-51.3	-51.3	☑	Reflex EZ	56184	
363.00			244	235	-51.1	-51.1	☑	Reflex EZ	56225	
366.00			243.6	234.6	-51.2	-51.2	☑	Reflex EZ	56194	
369.00			244	235	-51.1	-51.1	☑	Reflex EZ	56249	
372.00			243.2	234.2	-51.3	-51.3	☑	Reflex EZ	56194	
375.00			243.8	234.8	-51.2	-51.2	☑	Reflex EZ	56222	
381.00			244.1	235.1	-51.1	-51.1	☑	Reflex EZ	56280	
384.00			243.6	234.6	-51.2	-51.2	☑	Reflex EZ	56198	
387.00			244	235	-51.2	-51.2	☑	Reflex EZ	56285	
390.00			244.3	235.3	-51.2	-51.2	☑	Reflex EZ	56122	
393.00			244.2	235.2	-51.2	-51.2	☑	Reflex EZ	56169	
396.00			243.7	234.7	-51.1	-51.1	☑	Reflex EZ	56137	
399.00			243.1	234.1	-51.3	-51.3	☑	Reflex EZ	56045	
402.00			243.2	234.2	-51.3	-51.3	☑	Reflex EZ	56091	
405.00			243.5	234.5	-51.2	-51.2	☑	Reflex EZ	56186	
408.00			243.5	234.5	-51.1	-51.1	☑	Reflex EZ	56169	
411.00			244.2	235.2	-51	-51	☑	Reflex EZ	56117	
414.00			244.1	235.1	-51	-51	☑	Reflex EZ	56091	
417.00			242.7	233.7	-51.1	-51.1	☑	Reflex EZ	56096	
420.00			243.4	234.4	-51	-51	☑	Reflex EZ	56166	
423.00			243.2	234.2	-51	-51	☑	Reflex EZ	56233	
426.00			243.8	234.8	-50.9	-50.9	☑	Reflex EZ	56294	
429.00			244	235	-50.9	-50.9	☑	Reflex EZ	56136	
432.00			244	235	-50.8	-50.8	☑	Reflex EZ	56147	
435.00			243.8	234.8	-50.8	-50.8	☑	Reflex EZ	56116	
438.00			243.4	234.4	-50.9	-50.9	☑	Reflex EZ	56234	
441.00			243.1	234.1	-50.9	-50.9	☑	Reflex EZ	56171	
444.00			243.5	234.5	-50.8	-50.8	☑	Reflex EZ	56164	
447.00			243.2	234.2	-50.8	-50.8	☑	Reflex EZ	56269	
450.00			243.6	234.6	-50.8	-50.8	☑	Reflex EZ	56389	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
453.00			243.5	234.5	-50.7	-50.7	☑	Reflex EZ	56615	
456.00			241.4	232.4	-50.6	-50.6	☑	Reflex EZ	56565	
459.00			243.9	234.9	-50.6	-50.6	☑	Reflex EZ	56024	
462.00			244	235	-50.5	-50.5	☑	Reflex EZ	56235	
465.00			243.7	234.7	-50.5	-50.5	☑	Reflex EZ	56324	
468.00			244.2	235.2	-50.3	-50.3	☑	Reflex EZ	56347	
471.00			243.8	234.8	-50.5	-50.5	☑	Reflex EZ	56309	
474.00			243.6	234.6	-50.5	-50.5	☑	Reflex EZ	56285	
477.00			243.8	234.8	-50.4	-50.4	☑	Reflex EZ	56358	
480.00			243.9	234.9	-50.4	-50.4	☑	Reflex EZ	56276	
483.00			243.8	234.8	-50.3	-50.3	☑	Reflex EZ	56383	
486.00			243.5	234.5	-50.4	-50.4	☑	Reflex EZ	56292	
489.00			244	235	-50.3	-50.3	☑	Reflex EZ	56275	
492.00			244	235	-50.2	-50.2	☑	Reflex EZ	56249	
495.00			243.5	234.5	-50.3	-50.3	☑	Reflex EZ	56304	
498.00			243.6	234.6	-50.2	-50.2	☑	Reflex EZ	56374	
501.00			244.1	235.1	-50.1	-50.1	☑	Reflex EZ	56297	
504.00			243.9	234.9	-50	-50	☑	Reflex EZ	56316	
507.00			243.9	234.9	-50	-50	☑	Reflex EZ	56338	
510.00			243.9	234.9	-50	-50	☑	Reflex EZ	56286	
513.00			244	235	-49.9	-49.9	☑	Reflex EZ	56286	
516.00			243.7	234.7	-49.9	-49.9	☑	Reflex EZ	56334	
519.00			244.1	235.1	-49.8	-49.8	☑	Reflex EZ	56332	
522.00			244.3	235.3	-49.8	-49.8	☑	Reflex EZ	56309	
525.00			244.3	235.3	-49.8	-49.8	☑	Reflex EZ	56344	
528.00			244.1	235.1	-49.8	-49.8	☑	Reflex EZ	56202	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	57.70	**OB Overburden** Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles glacially rounded rocks and boulders. From 55 to 57.7m rounded rocks of sedimentary and igneous intrusive basement from 1cm to10cm in diameter.							
57.70	62.65	**SED Sediment** Whitish-beige locally vuggy limestone. Blocky core, 5-15cm rounded sections of core. From 60.5 to 62.65 darker beige mixture of vuggy limestone and siltstone. Lower contact at 50 dca.							
62.65	70.60	**SYEN Syenite** Orange to red "paleo" weathered syenite. Massive. Hard. Unit is mostly broken and blocky due to numerous weathered fractures and fault gouge. Fault gouge, (mainly brown clay) from 65.15 to 65.35 and from 69.9 to 70.4m Lower contact at 60 dca.							
70.60	83.45	**SYEN Syenite** Reddish-pinkish-grey massive syenite. Paleo weathering less intense than previous unit. Lower contact sharp at 35 dca. Dark green chlorite altered mafic dyke from 81.3 to 81.9 subparallel to ca at 5 dca. 82.8 to 83.05 dark green chlorite altered mafic dyke. Upper contact sharp at 30 dca; Lower Contact sharp, irregular at 10-15 dca.	N469641	75.00	76.00	1.00	0.18	0.03	
			N469642	76.00	77.00	1.00	0.21	0.04	
			N469643	77.00	78.00	1.00	0.22	0.07	
			N469645	78.00	79.00	1.00	0.13	0.02	
			N469646	79.00	80.00	1.00	0.32	0.01	
			N469647	80.00	81.00	1.00	0.17	0.02	
			N469648	81.00	82.00	1.00	0.32	0.01	
			N469649	82.00	83.45	1.45	0.35	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
83.45	86.35	**MD Mafic Dyke** Dark green, massive chlorite altered mafic dyke. Soft. Weak foliation at 25 dca. Massive syenite section from 84.35 to 85.10. Lower contact sharp at 20 dca.	N469650	83.45	84.35	0.90	0.53	0.01	
			N469652	84.35	85.15	0.80	0.3	0.01	
			N469653	85.15	86.35	1.20	1.16	0.04	
86.35	91.75	**SYEN Syenite** Pinkish-reddish grey, massive syenite. Paleo weathering along fractures. 10cm fault gouge at 87.80. No visible graphite overprint.	N469654	86.35	87.30	0.95	0.18	0.02	
			N469656	87.30	88.50	1.20	0.63	0.03	
			N469657	88.50	89.20	0.70	0.66	0.02	
			N469658	89.20	90.00	0.80	1.21	0.02	
			N469659	90.00	90.90	0.90	1.34	0.01	
			N469660	90.90	91.75	0.85	0.61	0.06	
91.75	96.00	**MD Mafic Dyke** Dark greenish-grey, massive mafic dyke. Fine grained, salt and pepper texture. Biotite, chlorite, feldspar. Weak foliation. Not magnetic. Dark green, soft chlorite filled fractures 1-3mm, weakly conductive. Upper contact sharp at 12 dca. Medium soft. Lower contact not visible due to dirty, greasy core.	N469661	91.75	92.90	1.15	0.13	0.01	
			N469662	92.90	94.00	1.10	0.26	0.01	
			N469663	94.00	95.00	1.00	0.31	0.01	
			N469665	95.00	96.00	1.00	0.32	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
96.00	109.28	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate dyke. Fine grained, biotite rich. Hard. Dark grey, hairline fractures weakly conductive at 99.2 to 99.4. Fracture filling chlorite and carbonate veinlets from 96 to 98.3m.From 102.4 to the lower contact several pegmatitic syenite sections 2-5cm, at various angles to ca. Lower contact sharp at 60 dca.	N469666	96.00	97.00	1.00	0.87	0.01	
			N469667	97.00	98.00	1.00	1.46	0.02	
			N469668	98.00	99.00	1.00	0.71	0.01	
			N469669	99.00	100.00	1.00	1.17	0.02	
			N469670	100.00	101.00	1.00	0.36	0.08	
			N469672	101.00	102.00	1.00	0.28	0.08	
			N469673	102.00	103.00	1.00	0.37	0.05	
			N469674	103.00	104.00	1.00	0.25	0.12	
			N469676	104.00	105.00	1.00	0.23	0.13	
			N469677	105.00	106.00	1.00	0.46	0.03	
			N469678	106.00	107.00	1.00	0.84	0.02	
			N469679	107.00	108.00	1.00	0.51	0.01	
			N469680	108.00	109.28	1.28	0.49	0.02	
109.28	113.56	**SYEN Syenite** Reddish- brown, massive, medium to coarse grained syenite. Pegmatitic white feldspar in the last meter. Fracture filling chlorite+/- biotite veins 1-2cm thick. Lower contact sharp at 35 dca.	N469681	109.28	110.20	0.92	0.5	0.04	
			N469682	110.20	111.10	0.90	1.23	0.08	
			N469683	111.10	112.30	1.20	0.19	0.23	
			N469685	112.30	113.56	1.26	0.35	0.08	
113.56	119.70	**ID Intermediate Dyke** Medium to dark grey to greenish-grey, fine grained massive dyke. Pervasive biotite. Dark green chloritic sections 15-30cm long from 117.8 to 119.15. Several coarse syenite sections from 114.4 to 114.84; 115.08 to 115.58 and from 117.5 to 117.65m. Lower contact sharp at 35 dca.	N469686	113.56	114.40	0.84	0.41	0.03	
			N469687	114.40	115.58	1.18	0.61	0.05	
			N469688	115.58	116.50	0.92	0.75	0.05	
			N469689	116.50	117.50	1.00	1.24	0.05	
			N469690	117.50	118.60	1.10	0.63	0.02	
			N469692	118.60	119.70	1.10	0.78	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
119.70	128.77	**SYEN Syenite** Reddish-brown to grey, medium grained, massive syenite. No visible graphite. Lower contact sharp at 60 dca.	N469693	119.70	120.80	1.10	0.28	0.13	
			N469694	120.80	122.00	1.20	0.17	0.07	
			N469696	122.00	123.00	1.00	0.17	0.1	
			N469697	123.00	124.00	1.00	0.22	0.09	
			N469698	124.00	125.00	1.00	0.31	0.06	
			N469699	125.00	126.00	1.00	0.53	0.03	
			N469700	126.00	127.00	1.00	0.41	0.04	
			N469701	127.00	128.00	1.00	0.59	0.03	
			N469702	128.00	128.77	0.77	0.48	0.01	
128.77	132.20	**ID Intermediate Dyke** Dark green to greyish-green, fine grained, massive mafic to intermediate dyke. Weak foliation at 40 dca. Dark green, biotite section from upper contact to 129.25; sharp contact at 20 dca. Lower contact sharp at 50 dca.	N469703	128.77	129.25	0.48	1.2	0.07	
			N469705	129.25	130.15	0.90	0.59	0.06	
			N469706	130.15	131.10	0.95	0.5	0.09	
			N469707	131.10	132.20	1.10	0.52	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
132.20	174.80	**SYENOP Syenite with Graphitic Overprinting** Medium grained, massive, brownish-red to greyish-red syenite. Weak to very weak, localized graphite overprinting as hairline fracture filling veinlets from 133 to 134m; at 138.7; from 151 to 151.2; from 153.6 to 155; from 155.9 to 156; from 161 to 161.3; at 162.8 and from 171.9 to 172.	N469708	132.20	133.00	0.80	0.21	0.18	
			N469709	133.00	134.00	1.00	0.68	0.25	
			N469710	134.00	135.00	1.00	0.07	0.15	
			N469712	135.00	136.00	1.00	0.21	0.17	
			N469713	136.00	137.00	1.00	0.14	0.16	
			N469714	137.00	138.00	1.00	0.41	0.11	
			N469716	138.00	139.00	1.00	0.48	0.1	2.65
			N469717	139.00	140.00	1.00	0.17	0.09	2.63
			N469718	140.00	141.00	1.00	0.15	0.1	2.63
			N469719	141.00	142.00	1.00	0.11	0.1	2.63
			N469720	142.00	143.00	1.00	0.23	0.09	2.63
			N469721	143.00	144.00	1.00	0.14	0.07	
			N469722	144.00	145.00	1.00	0.12	0.04	
			N469723	145.00	146.00	1.00	0.13	0.04	
			N469725	146.00	147.00	1.00	0.26	0.05	
			N469726	147.00	148.00	1.00	0.11	0.09	
			N469727	148.00	149.00	1.00	0.11	0.1	
			N469728	149.00	150.00	1.00	0.44	0.1	
			N469729	150.00	151.00	1.00	0.45	0.17	
			N469730	151.00	152.00	1.00	0.2	0.2	
			N469732	152.00	153.00	1.00	0.16	0.11	
			N469733	153.00	154.00	1.00	0.41	0.16	
			N469734	154.00	155.00	1.00	0.73	0.15	
			N469736	155.00	156.00	1.00	0.47	0.15	
			N469737	156.00	157.00	1.00	0.15	0.17	
			N469738	157.00	158.00	1.00	0.03	0.06	
			N469739	158.00	159.00	1.00	0.06	0.03	
			N469740	159.00	160.00	1.00	0.12	0.06	
			N469741	160.00	161.00	1.00	0.12	0.08	
			N469742	161.00	162.00	1.00	0.61	0.04	
			N469743	162.00	163.00	1.00	0.14	0.12	
			N469745	163.00	164.00	1.00	0.1	0.03	
			N469746	164.00	165.00	1.00	0.07	0.07	
			N469747	165.00	166.00	1.00	0.05	0.06	
			N469748	166.00	167.00	1.00	0.12	0.07	
			N469749	167.00	168.00	1.00	0.27	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N469750	168.00	169.00	1.00	0.05	0.11	
			N469752	169.00	170.00	1.00	0.01	0.08	
			N469753	170.00	171.00	1.00	0.02	0.03	
			N469754	171.00	172.00	1.00	0.18	0.11	
			N469756	172.00	173.00	1.00	0.16	0.17	
			N469757	173.00	174.00	1.00	0.07	0.22	
			N469758	174.00	174.80	0.80	0.07	0.18	
174.80	176.52	**ID Intermediate Dyke** Greenish-grey, salt and pepper texture, fine to medium grained, massive intermediate dyke. Both contacts sharp at 80 dca.	N469759	174.80	175.65	0.85	0.03	0.07	
			N469760	175.65	176.52	0.87	0.05	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
176.52	224.18	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown to greyish-brown, massive, medium grained syenite. Weak gneissic banding at 50 dca. Weak graphitic overprint as hairline fracture filling veinlets from 178.65 to 179.1 and from 180.3 to 181.25. Weak graphite overprint as hairline fracture filling veinlets from 190 to 192 and from 200.5 to 201.5. Trace pyrite as isolated specks from 206 to 207. From 212.4 to 212. 7 fine disseminated graphite mixed with trace pyrite. Weak graphite overprint at 220. 197.8 to 198.3 blocky core.	N469761	176.52	177.60	1.08	0.12	0.13	
			N469762	177.60	178.65	1.05	0.29	0.23	
			N469763	178.65	179.50	0.85	0.99	0.13	
			N469765	179.50	180.30	0.80	0.42	0.32	
			N469766	180.30	181.25	0.95	1.59	0.3	
			N469767	181.25	182.00	0.75	0.18	0.34	
			N469768	182.00	183.00	1.00	0.84	0.29	
			N469769	183.00	184.00	1.00	0.09	0.21	
			N469770	184.00	185.00	1.00	0.18	0.16	
			N469772	185.00	186.00	1.00	0.15	0.18	
			N469773	186.00	187.00	1.00	0.08	0.19	
			N469774	187.00	188.00	1.00	0.19	0.22	
			N469776	188.00	189.00	1.00	0.05	0.15	2.64
			N469777	189.00	190.00	1.00	0.34	0.19	2.64
			N469778	190.00	191.00	1.00	0.24	0.26	2.63
			N469779	191.00	192.00	1.00	0.22	0.18	2.64
			N469780	192.00	193.00	1.00	0.17	0.11	2.63
			N469781	193.00	194.00	1.00	0.02	0.23	
			N469782	194.00	195.00	1.00	0.13	0.11	
			N469783	195.00	196.00	1.00	0.05	0.22	
			N469785	196.00	197.00	1.00	0.12	0.21	
			N469786	197.00	198.00	1.00	0.1	0.23	
			N469787	198.00	199.00	1.00	0.14	0.15	
			N469788	199.00	200.00	1.00	0.68	0.28	
			N469789	200.00	201.00	1.00	0.43	0.32	
			N469790	201.00	202.00	1.00	0.21	0.3	
			N469792	202.00	203.00	1.00	0.21	0.29	
			N469793	203.00	204.00	1.00	0.33	0.29	
			N469794	204.00	205.00	1.00	0.17	0.26	
			N469796	205.00	206.00	1.00	0.25	0.15	
			N469797	206.00	207.00	1.00	0.13	0.08	
			N469798	207.00	208.00	1.00	0.1	0.09	
			N469799	208.00	209.00	1.00	0.05	0.16	
			N469800	209.00	210.00	1.00	0.28	0.15	
			N469801	210.00	211.00	1.00	0.04	0.11	
			N469802	211.00	212.00	1.00	0.16	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N469803	212.00	213.00	1.00	0.66	0.31	
			N469805	213.00	214.00	1.00	0.08	0.25	
			N469806	214.00	215.00	1.00	0.12	0.23	
			N469807	215.00	216.00	1.00	0.06	0.21	
			N469808	216.00	217.00	1.00	0.03	0.18	
			N469809	217.00	218.00	1.00	0.48	0.33	
			N469810	218.00	219.00	1.00	0.11	0.24	
			N469812	219.00	220.00	1.00	0.23	0.33	
			N469813	220.00	221.00	1.00	0.16	0.28	
			N469814	221.00	222.00	1.00	0.08	0.3	
			N469816	222.00	223.00	1.00	0.07	0.24	
			N469817	223.00	224.18	1.18	0.22	0.32	
224.18	- 235.60	**MDOP Mafic Dyke with Graphitic Overprinting**							
		Dark green to greenish-grey, fine grained, massive mafic to intermediate dyke. Upper contact sharp at 50 dca. Graphite overprint, weak to locally moderate as fracture filling veinlets from upper contact to 225m. Pervasive biotite. Moderately hard. Carbonate and graphite veinlets along fractures subparallel to ca from 229.5 to 232.1. 1-3cm FP dykes at 225.5 and 226.4m. The amount of biotite increases towards the lower contact from 233.9 to 235. Lower contact sharp at 30 dca. 5-10mm carbonate veinlets near the lower contact	N469818	224.18	225.00	0.82	1.96	0.26	
			N469819	225.00	226.00	1.00	0.37	0.09	
			N469820	226.00	227.00	1.00	0.67	0.1	
			N469821	227.00	228.00	1.00	0.24	0.06	
			N469822	228.00	229.00	1.00	0.59	0.09	
			N469823	229.00	230.00	1.00	2.36	0.13	
			N469825	230.00	231.00	1.00	1.2	0.12	
			N469826	231.00	232.00	1.00	0.91	0.21	
			N469827	232.00	233.00	1.00	0.33	0.23	
			N469828	233.00	233.90	0.90	0.38	0.08	
			N469829	233.90	234.70	0.80	0.44	0.14	
			N469830	234.70	235.60	0.90	0.54	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
235.60 -	258.00	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, massive, medium grained syenite. Fractured core from upper contact to 237m. One fracture subparallel to ca. Angular fragments from 235.6 to 236.7. Very weak graphite overprint as discrete hairline fracture filling conductive veinlets at 241.8, at 246.6 and 251.9. Trace pyrite at 246.55m.	N469832	235.60	236.70	1.10	0.8	0.13	
			N469833	236.70	237.90	1.20	0.22	0.21	
			N469834	237.90	239.00	1.10	0.22	0.31	
			N469836	239.00	240.00	1.00	0.32	0.28	
			N469837	240.00	241.00	1.00	0.2	0.3	
			N469838	241.00	242.00	1.00	0.17	0.35	
			N469839	242.00	243.00	1.00	0.12	0.12	
			N469840	243.00	244.00	1.00	0.04	0.04	
			N469841	244.00	245.00	1.00	0.04	0.07	
			N469842	245.00	246.00	1.00	0.07	0.3	
			N469843	246.00	247.00	1.00	0.26	0.38	
			N469845	247.00	248.00	1.00	0.09	0.2	
			N469846	248.00	249.00	1.00	0.05	0.18	
			N469847	249.00	250.00	1.00	0.19	0.25	
			N469848	250.00	251.00	1.00	0.29	0.33	
			N469849	251.00	252.00	1.00	0.17	0.25	
			N469850	252.00	253.00	1.00	0.06	0.3	
			N469852	253.00	254.00	1.00	0.08	0.31	
			N469853	254.00	255.00	1.00	0.05	0.18	
			N469854	255.00	256.00	1.00	0.05	0.17	
			N469856	256.00	257.00	1.00	0.06	0.33	
			N469857	257.00	258.00	1.00	0.13	0.33	
258.00 -	259.65	**MD Mafic Dyke** Dark green to greyish-green, massive, fine grained mafic dyke. Upper contact sharp at 35 dca. Grounded core at lower contact. Weak foliation at 50 dca. Pervasive fine grained biotite.	N469858	258.00	258.90	0.90	0.3	0.1	
			N469859	258.90	259.65	0.75	0.59	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
259.65	297.00	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, massive, medium grained syenite. Very weak graphite overprint as discrete hairline fracture filling veinlets at 268.2m and at 269.6 and 275.3m. Weak graphite overprinting as isolated hairline fracture filling veinlets from 280 to 292m. Trace pyrite as dissemination on fracture faces from 289 to 290.	N469860	259.65	260.80	1.15	1.48	0.25	
			N469861	260.80	262.00	1.20	0.72	0.33	
			N469862	262.00	263.00	1.00	0.1	0.22	
			N469863	263.00	264.00	1.00	0.26	0.28	
			N469865	264.00	265.00	1.00	0.05	0.14	
			N469866	265.00	266.00	1.00	0.09	0.19	
			N469867	266.00	267.00	1.00	0.25	0.19	
			N469868	267.00	268.00	1.00	1.51	0.22	
			N469869	268.00	269.00	1.00	0.21	0.25	
			N469870	269.00	270.00	1.00	0.21	0.19	
			N469872	270.00	271.00	1.00	0.2	0.28	
			N469873	271.00	272.00	1.00	0.28	0.1	
			N469874	272.00	273.00	1.00	0.17	0.21	
			N469876	273.00	274.00	1.00	0.11	0.28	
			N469877	274.00	275.00	1.00	0.12	0.32	
			N469878	275.00	276.00	1.00	0.4	0.23	
			N469879	276.00	277.00	1.00	0.33	0.17	
			N469880	277.00	278.00	1.00	0.22	0.24	
			N469881	278.00	279.00	1.00	0.3	0.16	
			N469882	279.00	280.00	1.00	0.06	0.14	
			N469883	280.00	281.00	1.00	0.45	0.35	
			N469885	281.00	282.00	1.00	0.25	0.38	
			N469886	282.00	283.00	1.00	0.32	0.34	
			N469887	283.00	284.00	1.00	0.11	0.25	
			N469888	284.00	285.00	1.00	0.24	0.35	
			N469889	285.00	286.00	1.00	0.31	0.33	
			N469890	286.00	287.00	1.00	0.34	0.36	
			N469892	287.00	288.00	1.00	0.29	0.36	
			N469893	288.00	289.00	1.00	0.17	0.22	
			N469894	289.00	290.00	1.00	0.35	0.33	
			N469896	290.00	291.00	1.00	0.37	0.36	
			N469897	291.00	292.00	1.00	1.18	0.33	
			N469898	292.00	293.00	1.00	1.11	0.23	
			N469899	293.00	294.00	1.00	0.62	0.31	
			N469900	294.00	295.00	1.00	1.64	0.27	
			N469901	295.00	296.00	1.00	0.76	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N469902	296.00	297.00	1.00	1.83	0.34	
297.00 -	319.70	**GRPBX Graphitic Breccia**							
		Medium to dark grey graphitic breccia. Brecciated syenite with moderate graphite content as graphitic flooding in the matrix and as fracture filling veinlets with minor barren syenite intervals (<1m). Few 1-3cm dark green fragments at 298.4m. From 307.7 to 310.75 syenite section with very weak graphite overprint as odd fracture filling graphitic veinlet. Moderate graphitic content from 310.7 to 312.5 and from 316.5 to 319.7. Angular syenite fragments vary in size from <1cm up to 15cm.	N469903	297.00	298.00	1.00	7.28	0.22	
			N469905	298.00	299.00	1.00	8.87	0.16	
			N469906	299.00	299.90	0.90	10.05	0.13	
			N469907	299.90	301.10	1.20	0.67	0.34	
			N469908	301.10	301.90	0.80	5.5	0.13	
			N469909	301.90	302.55	0.65	13.85	0.16	
			N469910	302.55	303.40	0.85	0.97	0.35	
			N469912	303.40	304.15	0.75	1.18	0.37	
			N469913	304.15	305.00	0.85	6.6	0.37	
			N469914	305.00	306.00	1.00	3.52	0.31	
			N469916	306.00	306.85	0.85	6.44	0.24	
			N469917	306.85	307.35	0.50	0.06	0.09	
			N469918	307.35	308.20	0.85	3	0.33	
			N469919	308.20	309.10	0.90	0.88	0.37	
			N469920	309.10	310.08	0.98	0.46	0.21	
			N469921	310.08	310.46	0.38	0.06	0.07	
			N469922	310.46	311.20	0.74	6.3	0.15	
			N469923	311.20	312.10	0.90	7.98	0.28	
			N469925	312.10	313.00	0.90	6.63	0.34	2.62
			N469926	313.00	314.00	1.00	3.01	0.36	2.62
			N469927	314.00	315.00	1.00	4.68	0.27	2.63
			N469928	315.00	316.00	1.00	9.09	0.15	2.57
			N469929	316.00	317.00	1.00	6.53	0.32	2.61
			N469930	317.00	318.00	1.00	9.33	0.23	2.58
			N469932	318.00	318.90	0.90	7.23	0.29	
			N469933	318.90	319.70	0.80	10.2	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
319.70	327.44	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, fine to medium grained massive syenite. Weak graphitic overprint as hairline fracture filling veinlets from 321.8 to 322; 322.5 to 323.5 and 327 to 327.4. Upper contact sharp at 80 dca. Lower contact sharp at 70 dca.	N469934	319.70	320.90	1.20	0.89	0.29	
			N469936	320.90	322.00	1.10	1.59	0.31	
			N469937	322.00	323.00	1.00	1.01	0.47	
			N469938	323.00	324.00	1.00	0.96	0.38	
			N469939	324.00	325.00	1.00	0.21	0.36	
			N469940	325.00	325.90	0.90	0.51	0.34	
			N469941	325.90	326.70	0.80	0.52	0.34	
			N469942	326.70	327.44	0.74	0.77	0.33	
327.44	335.40	**GRPBX Graphitic Breccia** Dark grey syenite fragments in graphite flooded matrix. Good graphite content. Two <50cm barren syenite sections from 328.5 to 331. Medium grey fine grained angular fragments of intermediate composition. Trace pyrite in graphitic matrix as small blebs or around the fragments. 333.15 to 333.6 very fine grained, medium grey, hard felsic dyke, fractured with fracture filling graphite veinlets. Lower contact sharp at 55 dca.	N469943	327.44	328.20	0.76	6.54	0.34	
			N469945	328.20	329.10	0.90	5.7	0.22	
			N469946	329.10	330.00	0.90	5.7	0.22	
			N469947	330.00	331.00	1.00	5.45	0.22	
			N469948	331.00	332.00	1.00	12.75	0.32	
			N469949	332.00	332.90	0.90	6.93	0.34	
			N469950	332.90	333.70	0.80	6.87	0.64	
			N469952	333.70	334.50	0.80	10.6	0.31	
			N469953	334.50	335.40	0.90	7.82	0.18	
335.40	339.68	**ID Intermediate Dyke** Greenish grey, fine grained, massive intermediate to felsic dyke. Hard. No visible graphite. Lower contact sharp at 65 dca.	N469954	335.40	336.30	0.90	0.21	0.11	
			N469956	336.30	337.15	0.85	0.06	0.15	
			N469957	337.15	338.10	0.95	0.11	0.24	
			N469958	338.10	339.00	0.90	0.12	0.03	
			N469959	339.00	339.68	0.68	0.11	0.07	2.65

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
339.68	352.25	**GRPBX Graphitic Breccia** Graphitic breccia. Light to medium grey, locally dark grey brecciate syenite sections 15 cm to 1.0m long alternate with less fractured, massive syenite sections 1-1.5m long. Moderate graphite content as graphite flooding in the breccia matrix and as graphite veinlets from upper contact to 342.2m. From 344.4 to 349 15-50cm brecciated section within a weakly fractured syenite section. Lower contact sharp at 65 dca.	N469960	339.68	340.50	0.82	6.77	0.3	2.56
			N469961	340.50	341.30	0.80	8.21	0.24	2.62
			N469962	341.30	342.20	0.90	6.53	0.27	2.61
			N469963	342.20	343.00	0.80	1.28	0.35	2.62
			N469965	343.00	344.00	1.00	0.8	0.31	
			N469966	344.00	345.00	1.00	2.79	0.35	
			N469967	345.00	346.00	1.00	4.51	0.32	
			N469968	346.00	347.00	1.00	6.19	0.29	
			N469969	347.00	348.00	1.00	1.81	0.34	
			N469970	348.00	349.00	1.00	1.74	0.38	
			N469972	349.00	350.00	1.00	7.3	0.35	
			N469973	350.00	351.10	1.10	7.38	0.22	
			N469974	351.10	352.25	1.15	7.48	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
352.25	368.20	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite with locally weak graphite overprint as discrete, hairline fracture filling veinlets. Graphite veinlets at 355.9; 359.4 to 359.6 and from 366.8 to 367.7m. Lower contact sharp at 30 dca.	N469976	352.25	353.25	1.00	1.19	0.16	
			N469977	353.25	354.25	1.00	0.47	0.34	
			N469978	354.25	354.85	0.60	0.06	0.11	
			N469979	354.85	356.00	1.15	0.19	0.29	
			N469980	356.00	357.00	1.00	0.38	0.29	
			N469981	357.00	358.00	1.00	0.37	0.29	
			N469982	358.00	359.00	1.00	0.31	0.2	
			N469983	359.00	360.00	1.00	1.4	0.21	
			N469985	360.00	361.00	1.00	0.26	0.43	
			N469986	361.00	362.00	1.00	0.19	0.28	
			N469987	362.00	363.00	1.00	0.16	0.32	
			N469988	363.00	364.00	1.00	0.47	0.31	
			N469989	364.00	365.00	1.00	0.46	0.3	
			N469990	365.00	366.00	1.00	0.23	0.36	
			N469992	366.00	367.00	1.00	0.29	0.34	
			N469993	367.00	368.20	1.20	0.38	0.34	
368.20	381.20	**ID Intermediate Dyke** Medium grey to greenish-grey, fine grained, massive intermediate dyke. Brecciated section at 376m with surrounded fragments of the dyke in granitic matrix. No visible graphite. Lower contact masked by brecciation.	N469994	368.20	369.00	0.80	0.03	0.02	
			N469996	369.00	370.00	1.00	0.08	0.06	
			N469997	370.00	371.00	1.00	0.05	0.03	
			N469998	371.00	372.00	1.00	0.05	0.01	
			N469999	372.00	373.00	1.00	0.13	0.01	
			N470000	373.00	374.00	1.00	0.12	0.01	
			N470001	374.00	375.00	1.00	0.15	0.02	
			N470002	375.00	376.00	1.00	0.11	0.02	
			N470003	376.00	377.00	1.00	0.1	0.02	
			N470005	377.00	378.00	1.00	0.19	0.03	
			N470006	378.00	379.00	1.00	0.09	0.05	
			N470007	379.00	380.00	1.00	0.1	0.02	
			N470008	380.00	381.20	1.20	0.13	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
381.20	390.36	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained, massive syenite. Very weak graphite overprint as graphite veinlets from 389 to 390.2.	N470009	381.20	382.10	0.90	0.49	0.39	
			N470010	382.10	383.00	0.90	0.27	0.4	
			N470012	383.00	384.00	1.00	0.39	0.33	
			N470013	384.00	385.00	1.00	0.71	0.37	
			N470014	385.00	386.00	1.00	0.92	0.37	
			N470016	386.00	387.00	1.00	0.59	0.34	
			N470017	387.00	388.00	1.00	0.49	0.32	
			N470018	388.00	389.00	1.00	0.58	0.35	
			N470019	389.00	390.36	1.36	1.76	0.36	
390.36	393.27	**GRPBX Graphitic Breccia** Medium to dark grey, brecciated syenite intruded by thin <20cm intermediate dykes that are also brecciated. Graphite flooding and graphite veinlets in the matrix. Moderate graphite content. Trace pyrite from 391.5 to 393. Lower contact at 55 dca.	N470020	390.36	391.20	0.84	6.25	0.29	
			N470021	391.20	392.20	1.00	7.62	0.2	
			N470022	392.20	393.27	1.07	5.01	0.59	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
393.27	421.30	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". Salt and pepper texture. Trace pyrite on fracture faces.	N470023	393.27	394.20	0.93	0.21	0.03	
			N470025	394.20	395.10	0.90	0.13	0.005	
			N470026	395.10	396.00	0.90	0.14	0.02	
			N470027	396.00	397.00	1.00	0.16	0.01	
			N470028	397.00	398.00	1.00	0.16	0.01	
			N470029	398.00	399.00	1.00	0.14	0.04	
			N470030	399.00	400.00	1.00	0.14	0.05	
			N470032	400.00	401.00	1.00	0.14	0.06	
			N470033	401.00	402.00	1.00	0.15	0.03	
			N470034	402.00	403.00	1.00	0.14	0.02	
			N470036	403.00	404.00	1.00	0.03	0.03	
			N470037	404.00	405.00	1.00	0.08	0.03	
			N470038	405.00	406.00	1.00	0.03	0.03	
			N470039	406.00	407.00	1.00	0.04	0.06	
			N470040	407.00	408.00	1.00	0.05	0.06	
			N470041	408.00	409.00	1.00	0.03	0.07	
			N470042	409.00	410.00	1.00	0.05	0.05	
			N470043	410.00	411.00	1.00	0.03	0.02	
			N470045	411.00	412.00	1.00	0.04	0.04	
			N470046	412.00	413.00	1.00	0.03	0.08	
			N470047	413.00	414.00	1.00	0.06	0.15	
			N470048	414.00	415.00	1.00	0.04	0.09	
			N470049	415.00	416.00	1.00	0.04	0.24	
			N470050	416.00	417.00	1.00	0.03	0.13	
			N470052	417.00	418.00	1.00	0.13	0.03	
			N470053	418.00	419.00	1.00	0.06	0.03	
			N470054	419.00	420.00	1.00	0.11	0.05	
			N470056	420.00	421.30	1.30	0.02	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
421.30	426.15	**FD Felsic Dyke** Medium grey with a pinkish hue, fine grained, massive felsic dyke. Granophyric texture.30cm of chilled margin at upper contact Upper contact sharp at 30 dca. Lower contact sharp at 40 dca.	N470057	421.30	422.20	0.90	0.02	0.11	
			N470058	422.20	423.10	0.90	0.03	0.15	
			N470059	423.10	424.00	0.90	0.09	0.23	
			N470060	424.00	425.00	1.00	0.05	0.15	
			N470061	425.00	426.15	1.15	0.02	0.1	
426.15	444.35	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive, "gabbroic texture". 428.5 to 429.2 blocky core, minor fault gouge at 429.05m.	N470062	426.15	427.00	0.85	0.15	0.07	
			N470063	427.00	428.00	1.00	0.07	0.01	
			N470065	428.00	429.00	1.00	0.11	0.02	
			N470066	429.00	430.00	1.00	0.13	0.04	
			N470067	430.00	431.00	1.00	0.03	0.01	
			N470068	431.00	432.00	1.00	0.07	0.02	
			N470069	432.00	433.00	1.00	0.06	0.02	
			N470070	433.00	434.00	1.00	0.05	0.04	
			N470072	434.00	435.00	1.00	0.09	0.08	
			N470073	435.00	436.00	1.00	0.1	0.03	
			N470074	436.00	437.00	1.00	0.13	0.02	
			N470076	437.00	438.00	1.00	0.06	0.13	
			N470077	438.00	439.00	1.00	0.08	0.02	
			N470078	439.00	440.00	1.00	0.07	0.06	
			N470079	440.00	441.00	1.00	0.05	0.02	
			N470080	441.00	442.00	1.00	0.03	0.12	
			N470081	442.00	443.00	1.00	0.04	0.1	
			N470082	443.00	444.35	1.35	0.07	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
444.35	446.55	**FD Felsic Dyke** Medium gray with a light pink hue, fine grained, massive felsic dyke. Blocky core, fractured from 445.3 to 446.5. Angular fragments from 1 to 10cm; fault zone. Upper contact sharp at 30 dca. Lower contact at 45 dca.	N470083	444.35	445.50	1.15	0.08	0.04	
			N470085	445.50	446.55	1.05	0.02	0.1	
446.55	454.55	**SYEN Syenite** Reddish-brown, medium grained, massive syenite. Vuggy carbonate vein with trace pyrite from 447.05 to 447.3. Blocky core from 447.6 to 450. No visible graphite.	N470086	446.55	447.80	1.25	0.19	0.98	
			N470087	447.80	449.00	1.20	0.09	0.07	
			N470088	449.00	450.00	1.00	0.15	0.09	
			N470089	450.00	451.00	1.00	0.18	0.22	
			N470090	451.00	452.00	1.00	0.24	0.09	
			N470092	452.00	453.00	1.00	0.12	0.23	
			N470093	453.00	454.00	1.00	0.12	0.17	
			N470094	454.00	454.65	0.65	0.1	0.42	
454.55	456.35	**FD Felsic Dyke** Reddish-brown, massive porphyritic felsic dyke. Broken core at upper contact. Lower contact sharp at 20 dca. Subhedral to euhedral feldspar phenocrysts, 2-10mm in size in a fine grained, reddish-brown matrix.	N470096	454.65	455.50	0.85	0.07	0.09	
			N470097	455.50	456.35	0.85	0.05	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
456.35	518.33	**SYEN Syenite** Medium grey with light pink hue, massive, medium grained syenite. Very weak graphite overprint as one weakly conductive graphite veinlet at 471.5m. Trace pyrite as disseminated 1-2mm subhedral grains. From 493.7 to 493.98 dark grey, fine grained massive, intermediate dyke. Upper contact sharp at 35 dca; lower contact at 80 dca. From 511.6 to 515.5 weak graphite overprint as hairline fracture filling conductive veinlets. Lower contact sharp at 35 dca.	N470098	456.35	457.20	0.85	0.07	0.13	
			N470099	457.20	458.00	0.80	0.09	0.13	
			N470100	458.00	459.00	1.00	0.1	0.1	
			N470101	459.00	460.00	1.00	0.07	0.07	
			N470102	460.00	461.00	1.00	0.05	0.12	
			N470103	461.00	462.00	1.00	0.07	0.13	
			N470105	462.00	463.00	1.00	0.14	0.08	
			N470106	463.00	464.00	1.00	0.09	0.11	
			N470107	464.00	465.00	1.00	0.05	0.14	
			N470108	465.00	466.00	1.00	0.08	0.15	
			N470109	466.00	467.00	1.00	0.04	0.12	
			N470110	467.00	468.00	1.00	0.12	0.08	
			N470112	468.00	469.00	1.00	0.12	0.13	
			N470113	469.00	470.00	1.00	0.06	0.1	
			N470114	470.00	471.00	1.00	0.05	0.14	
			N470116	471.00	472.00	1.00	0.26	0.17	
			N470117	472.00	473.00	1.00	0.03	0.08	
			N470118	473.00	474.00	1.00	0.12	0.17	
			N470119	474.00	475.00	1.00	0.05	0.14	
			N470120	475.00	476.00	1.00	0.04	0.2	
			N470121	476.00	477.00	1.00	0.03	0.14	
			N470122	477.00	478.00	1.00	0.03	0.15	
			N470123	478.00	479.00	1.00	0.01	0.09	
			N470125	479.00	480.00	1.00	0.04	0.09	
			N470126	480.00	481.00	1.00	0.03	0.1	
			N470127	481.00	482.00	1.00	0.02	0.13	
			N470128	482.00	483.00	1.00	0.04	0.21	
			N470129	483.00	484.00	1.00	0.04	0.16	
			N470130	484.00	485.00	1.00	0.06	0.18	
			N470132	485.00	486.00	1.00	0.05	0.14	
			N470133	486.00	487.00	1.00	0.02	0.14	
			N470134	487.00	488.00	1.00	0.03	0.19	
			N470136	488.00	489.00	1.00	0.07	0.16	
			N470137	489.00	490.00	1.00	0.02	0.13	
			N470138	490.00	491.00	1.00	0.17	0.3	
			N470139	491.00	492.00	1.00	0.07	0.12	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N470140	492.00	493.00	1.00	0.13	0.16	
		N470141	493.00	494.00	1.00	0.09	0.13	
		N470142	494.00	495.00	1.00	0.05	0.09	
		N470143	495.00	496.00	1.00	0.02	0.11	
		N470145	496.00	497.00	1.00	0.13	0.14	
		N470146	497.00	498.00	1.00	0.11	0.18	
		N470147	498.00	499.00	1.00	0.09	0.24	
		N470148	499.00	500.00	1.00	0.17	0.21	
		N470149	500.00	501.00	1.00	0.23	0.2	
		N470150	501.00	502.00	1.00	0.1	0.13	
		N470152	502.00	503.00	1.00	0.04	0.13	
		N470153	503.00	504.00	1.00	0.16	0.12	
		N470154	504.00	505.00	1.00	0.05	0.18	
		N470156	505.00	506.00	1.00	0.24	0.13	
		N470157	506.00	507.00	1.00	0.21	0.19	
		N470158	507.00	508.00	1.00	0.07	0.15	
		N470159	508.00	509.00	1.00	0.09	0.13	
		N470160	509.00	510.00	1.00	0.17	0.17	
		N470161	510.00	511.00	1.00	0.09	0.12	
		N470162	511.00	512.00	1.00	0.24	0.15	
		N470163	512.00	513.00	1.00	0.15	0.12	
		N470165	513.00	514.00	1.00	0.34	0.04	
		N470166	514.00	515.00	1.00	0.3	0.03	
		N470167	515.00	516.00	1.00	0.54	0.02	
		N470168	516.00	517.00	1.00	0.35	0.01	
		N470169	517.00	518.33	1.33	0.09	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
518.33	530.80	**ID Intermediate Dyke** Medium to dark grey to greenish-grey, fine to medium grained intermediate dyke. Intruded by several veinlets of granitic composition 1-3cm thick. Brecciated section from 522to 523 with trace pyrrhotite. Dark grey, very fine grained feldspar phyric dyke from 529 to 530.15m. No visible graphite. EOH 530.8m	N470170	518.33	519.20	0.87	0.02	0.04	
			N470172	519.20	520.10	0.90	0.03	0.04	
			N470173	520.10	521.00	0.90	0.01	0.04	
			N470174	521.00	522.00	1.00	0.03	0.25	
			N470176	522.00	523.00	1.00	0.02	0.5	
			N470177	523.00	524.00	1.00	0.01	0.04	
			N470178	524.00	525.00	1.00	0.02	0.02	
			N470179	525.00	526.00	1.00	0.01	0.04	
			N470180	526.00	527.00	1.00	0.01	0.03	
			N470181	527.00	528.00	1.00	0.03	0.04	
			N470182	528.00	529.00	1.00	0.04	0.09	
			N470183	529.00	530.00	1.00	0.04	0.02	
			N470185	530.00	530.80	0.80	0.07	0.19	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	508.75	17/05/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545698	683198.5			Reflex APS		23/05/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	125.80	277.00		-50.60	Chibougamau Diamond Drilling		24/05/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑

Zone/Prospect	Assessment Rpt. No.	Core Storage	Plug Depth	Makes Water	Capped	Environmental Inspection
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	448.75	**Casing Pulled**	**Casing (1)**	60.00	Steel	**Plugged**	**Pulsed**	**Geophysics Contractor**		**Date Pulsed**
(2)			☐	**(2)**			☐	☐	Crone Geophysics Limited		

Purpose	Results	Comments
Testing East Pipe at depth from the East.	This hole intersected graphitic breccia from 342.40m to 358.09m and from 369.00m to 384.72m. The assays from 236.64m to 429.00m averaged 1.67% Cg over 192.36m; within this intersection a higher grade graphite zone from 322.00m to 389.15m averaged 2.98% Cg over 67.15m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
90.00			288	279	-50.4	-50.4	☑	Reflex EZ	56349	
174.00			290	281	-51.6	-51.6	☑	Reflex EZ	60679	
192.00			289.7	280.7	-51.5	-51.5	☑	Reflex EZ	60589	
195.00			290.2	281.2	-51.6	-51.6	☑	Reflex EZ	55559	
210.00			288.1	279.1	-51.5	-51.5	☑	Reflex EZ	56053	
231.00			287.9	278.9	-51.5	-51.5	☑	Reflex EZ	56009	
252.00			289	280	-50.9	-50.9	☑	Reflex EZ	56160	
258.00			288.4	279.4	-51	-51	☑	Reflex EZ	56194	
270.00			289	280	-51	-51	☑	Reflex EZ	56230	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
273.00			288.6	279.6	-51.1	-51.1	☑	Reflex EZ	56131	
279.00			288.5	279.5	-51.2	-51.2	☑	Reflex EZ	56213	
282.00			288.4	279.4	-51.1	-51.1	☑	Reflex EZ	56072	
285.00			289.2	280.2	-51	-51	☑	Reflex EZ	56198	
288.00			288.4	279.4	-51.1	-51.1	☑	Reflex EZ	56130	
297.00			289.4	280.4	-50.9	-50.9	☑	Reflex EZ	56148	
300.00			288.1	279.1	-51.1	-51.1	☑	Reflex EZ	56069	
303.00			289.2	280.2	-51	-51	☑	Reflex EZ	56188	
306.00			288.2	279.2	-51.2	-51.2	☑	Reflex EZ	56147	
309.00			289.4	280.4	-51.1	-51.1	☑	Reflex EZ	56195	
312.00			288.7	279.7	-51.2	-51.2	☑	Reflex EZ	56152	
315.00			288.7	279.7	-51.2	-51.2	☑	Reflex EZ	56176	
318.00			289.7	280.7	-51	-51	☑	Reflex EZ	56182	
321.00			289.5	280.5	-51.1	-51.1	☑	Reflex EZ	56223	
324.00			289.1	280.1	-51.2	-51.2	☑	Reflex EZ	56208	
327.00			289.8	280.8	-51	-51	☑	Reflex EZ	56227	
330.00			288.8	279.8	-51.2	-51.2	☑	Reflex EZ	56168	
333.00			290	281	-50.9	-50.9	☑	Reflex EZ	56224	
336.00			289.4	280.4	-51.1	-51.1	☑	Reflex EZ	56234	
339.00			288.9	279.9	-51.1	-51.1	☑	Reflex EZ	56175	
342.00			289.7	280.7	-51	-51	☑	Reflex EZ	56204	
345.00			289.3	280.3	-51.1	-51.1	☑	Reflex EZ	56227	
348.00			289.5	280.5	-51	-51	☑	Reflex EZ	56189	
351.00			288.9	279.9	-51	-51	☑	Reflex EZ	56214	
354.00			289	280	-51.1	-51.1	☑	Reflex EZ	56188	
357.00			290.2	281.2	-50.8	-50.8	☑	Reflex EZ	56212	
360.00			289.3	280.3	-51	-51	☑	Reflex EZ	56209	
363.00			289.4	280.4	-51	-51	☑	Reflex EZ	56219	
366.00			289.7	280.7	-50.9	-50.9	☑	Reflex EZ	55727	
369.00			288.9	279.9	-51.1	-51.1	☑	Reflex EZ	56134	
372.00			289.3	280.3	-50.9	-50.9	☑	Reflex EZ	56199	
375.00			289.9	280.9	-50.8	-50.8	☑	Reflex EZ	56308	
378.00			289.3	280.3	-51	-51	☑	Reflex EZ	56268	
381.00			289.6	280.6	-50.9	-50.9	☑	Reflex EZ	56181	
384.00			288.9	279.9	-51	-51	☑	Reflex EZ	56272	
387.00			290.1	281.1	-50.8	-50.8	☑	Reflex EZ	56175	
390.00			290	281	-50.8	-50.8	☑	Reflex EZ	56224	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
393.00			290.1	281.1	-50.7	-50.7	☑	Reflex EZ	56239	
396.00			289.3	280.3	-50.9	-50.9	☑	Reflex EZ	56158	
399.00			290.1	281.1	-50.7	-50.7	☑	Reflex EZ	56257	
402.00			290.3	281.3	-50.7	-50.7	☑	Reflex EZ	56201	
405.00			289.7	280.7	-50.7	-50.7	☑	Reflex EZ	56177	
408.00			289.2	280.2	-50.9	-50.9	☑	Reflex EZ	56156	
411.00			289.2	280.2	-51	-51	☑	Reflex EZ	56200	
414.00			289.5	280.5	-50.9	-50.9	☑	Reflex EZ	56195	
417.00			288.9	279.9	-51	-51	☑	Reflex EZ	56219	
420.00			290	281	-50.7	-50.7	☑	Reflex EZ	56257	
423.00			289.4	280.4	-50.8	-50.8	☑	Reflex EZ	56182	
426.00			289.4	280.4	-50.8	-50.8	☑	Reflex EZ	56229	
429.00			289.8	280.8	-50.7	-50.7	☑	Reflex EZ	56229	
432.00			289.8	280.8	-50.5	-50.5	☑	Reflex EZ	56254	
435.00			289.8	280.8	-50.5	-50.5	☑	Reflex EZ	56238	
438.00			289.3	280.3	-50.5	-50.5	☑	Reflex EZ	56111	
441.00			288.4	279.4	-50.6	-50.6	☑	Reflex EZ	55913	
444.00			289.9	280.9	-50.5	-50.5	☑	Reflex EZ	56036	
450.00			289.4	280.4	-50.4	-50.4	☑	Reflex EZ	56218	
453.00			289.3	280.3	-50.4	-50.4	☑	Reflex EZ	56074	
456.00			288.5	279.5	-50.6	-50.6	☑	Reflex EZ	56026	
459.00			289.5	280.5	-50.4	-50.4	☑	Reflex EZ	56103	
462.00			288.8	279.8	-50.5	-50.5	☑	Reflex EZ	56028	
465.00			288.4	279.4	-50.5	-50.5	☑	Reflex EZ	56180	
468.00			288.9	279.9	-50.4	-50.4	☑	Reflex EZ	56132	
471.00			289.3	280.3	-50.4	-50.4	☑	Reflex EZ	56178	
474.00			288.9	279.9	-50.4	-50.4	☑	Reflex EZ	56203	
477.00			288.6	279.6	-50.5	-50.5	☑	Reflex EZ	56323	
480.00			289.1	280.1	-50.3	-50.3	☑	Reflex EZ	56215	
483.00			289.7	280.7	-50.2	-50.2	☑	Reflex EZ	56225	
486.00			289.9	280.9	-50	-50	☑	Reflex EZ	56311	
489.00			289.7	280.7	-50.2	-50.2	☑	Reflex EZ	56238	
492.00			288.7	279.7	-50.3	-50.3	☑	Reflex EZ	56198	
495.00			289.5	280.5	-50.2	-50.2	☑	Reflex EZ	56273	
498.00			289.1	280.1	-50.3	-50.3	☑	Reflex EZ	56229	
501.00			289.7	280.7	-50.1	-50.1	☑	Reflex EZ	56216	
504.00			289.5	280.5	-50.2	-50.2	☑	Reflex EZ	56263	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
507.00			289.3	280.3	-50.2	-50.2	☑	Reflex EZ	56148	
510.00			289.4	280.4	-50.2	-50.2	☑	Reflex EZ	56175	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	51.00	**OB Overburden** Unknown overburden that is likely a mixture of lowlands dirt, muskeg, pebbles, glacially rounded rocks and boulders.							
51.00	59.00	**SED Sediment** Whitish- beige locally vuggy limestone. Blocky core, 5-15cm rounded sections of core. From 52 to 54.9 darker beige mixture of vuggy limestone and siltstone. Subrounded granitic boulders from 52.5 to 53.1. Broken core at lower contact.							
59.00	62.62	**SYEN Syenite** Dark grey with reddish-brown sections, medium grained syenite. Weak gneissic banding. Blocky and grounded core from 59 to 60.3.	N470186 N470187	60.30 61.50	61.50 62.62	1.20 1.12	0.03 0.06	0.04 0.04	
62.62	63.78	**FD Felsic Dyke** Dark grey with a reddish-brown tinge. Fin grained massive felsic dyke. Upper contact sharp at 45 dca. Lower contact sharp at 55 dca.	N470188	62.62	63.78	1.16	0.06	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.78	74.40	**SYEN Syenite** Medium grey, to greenish-grey with light pinkish hue, massive, medium grained syenite. 10cm pegmatite dyke at 69.15 at 60 dca. Dark green amphibole and dark brown biotite interstitial to milky white feldspars. Looks like a granodiorite.	N470189	63.78	65.00	1.22	0.04	0.03	
			N470190	65.00	66.00	1.00	0.13	0.06	
			N470192	66.00	67.00	1.00	0.01	0.03	
			N470193	67.00	68.00	1.00	0.01	0.09	
			N470194	68.00	69.00	1.00	0.03	0.04	
			N470196	69.00	70.00	1.00	0.02	0.08	2.71
			N470197	70.00	71.00	1.00	0.03	0.03	2.75
			N470198	71.00	72.00	1.00	0.01	0.02	2.68
			N470199	72.00	73.20	1.20	0.01	0.02	2.71
			N470200	73.20	74.40	1.20	0.01	0.05	
74.40	76.57	**FD Felsic Dyke** Medium grey to brownish-grey, fine grained, massive felsic dyke. Hard. Fractures subparallel to ca from 75.8 to 76.4. Upper contact sharp at 50 dca. Lower contact sharp at 30 dca.	N470201	74.40	75.50	1.10	0.08	0.02	
			N470202	75.50	76.57	1.07	0.1	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
76.57	102.50	**SYEN Syenite** Medium grey to greenish-grey, with reddish-brown sections, medium grained, massive syenite. 15cm pegmatite dyke from 80.1 to 80.25 at 85 dca. 5cm fault gouge at 85.7 at 50 dca. From 94.56 to 95 pegmatite dyke, milky white to pink, white 5-15mm subhedral feldspar in sugary white matrix. Both contacts sharp at 15 dca.	N470203	76.57	77.80	1.23	0.02	0.09	
			N470205	77.80	79.00	1.20	0.04	0.05	
			N470206	79.00	80.00	1.00	0.01	0.05	
			N470207	80.00	81.00	1.00	0.01	0.05	
			N470208	81.00	82.00	1.00	0.01	0.03	
			N470209	82.00	83.00	1.00	0.11	0.01	
			N470210	83.00	84.00	1.00	0.2	0.03	
			N470212	84.00	85.00	1.00	0.05	0.06	
			N470213	85.00	86.00	1.00	0.05	0.05	
			N470214	86.00	87.00	1.00	0.01	0.02	
			N470216	87.00	88.00	1.00	0.03	0.05	
			N470217	88.00	89.00	1.00	0.01	0.1	
			N470218	89.00	90.00	1.00	0.01	0.09	
			N470219	90.00	91.00	1.00	0.01	0.06	
			N470220	91.00	92.00	1.00	0.01	0.02	
			N470221	92.00	93.00	1.00	0.02	0.12	
			N470222	93.00	94.00	1.00	0.01	0.15	
			N470223	94.00	95.00	1.00	0.01	0.16	
			N470225	95.00	96.00	1.00	0.01	0.03	
			N470226	96.00	97.00	1.00	0.01	0.04	
			N470227	97.00	98.00	1.00	0.01	0.07	
			N470228	98.00	99.00	1.00	0.01	0.11	
			N470229	99.00	100.00	1.00	0.01	0.16	
			N470230	100.00	101.00	1.00	0.01	0.13	
			N470232	101.00	102.00	1.00	0.01	0.09	
			N470233	102.00	102.50	0.50	0.14	0.08	
102.50	104.13	**MD Mafic Dyke** Medium to dark green, fine grained, massive mafic dyke. Weakly foliated. Dark green to black subrounded hornblende phenocrysts 2-5mm. Weakly conductive at 103.05 to 103.15; carbonate veinlets at same interval. Grounded core at upper contact. Lower contact sharp at 45 dca.	N470234	102.50	103.40	0.90	0.9	0.32	
			N470236	103.40	104.13	0.73	1.68	0.49	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
104.13	146.82	**SYEN Syenite** Greenish-grey to dark grey with reddish-brown intervals, massive syenite. Medium grained. 1-2mm subhedral feldspar phenocrysts from upper contact to 113 and from 119 to 124. 10-15cm dark green chloritic bands at 117.5 and at 118.5. From 120.7 to 121.6 10-15cm medium grey, fine grained massive intermediate dykes at 70 to 90 dca. From 124 to 128 pegmatite dyke. White to light grey to pink with large 1-10cm white feldspars in quartz matrix. Reddish stains along hairline fractures at 127. Upper contact sharp at 10 dca. Lower contact sharp at 15 dca. From 130.74 to 130.9 fault. Broken core in angular, friable fragments. Fault gouge at 130.9. From 138.1 to 140.7 pegmatitic section with milky white subhedral 1-3cm feldspar crystals in a reddish brown matrix.	N470237	104.13	105.10	0.97	0.44	0.26	
			N470238	105.10	106.00	0.90	0.12	0.28	
			N470239	106.00	107.45	1.45	0.01	0.24	
			N470240	107.45	108.15	0.70	0.01	0.14	
			N470241	108.15	109.10	0.95	0.01	0.24	
			N470242	109.10	110.00	0.90	0.02	0.18	
			N470243	110.00	111.00	1.00	0.01	0.17	
			N470245	111.00	112.00	1.00	0.01	0.16	
			N470246	112.00	113.00	1.00	0.01	0.17	
			N470247	113.00	114.00	1.00	0.01	0.11	
			N470248	114.00	115.00	1.00	0.01	0.15	
			N470249	115.00	116.00	1.00	0.08	0.16	
			N470250	116.00	117.00	1.00	0.13	0.14	
			N470252	117.00	118.00	1.00	0.1	0.07	
			N470253	118.00	119.00	1.00	0.06	0.09	
			N470254	119.00	120.00	1.00	0.05	0.18	
			N470256	120.00	121.00	1.00	0.05	0.14	
			N470257	121.00	122.00	1.00	0.05	0.1	
			N470258	122.00	123.00	1.00	0.05	0.11	
			N470259	123.00	124.00	1.00	0.05	0.19	
			N470260	124.00	125.00	1.00	0.05	0.05	
			N470261	125.00	126.00	1.00	0.06	0.06	
			N470262	126.00	127.00	1.00	0.06	0.04	
			N470263	127.00	128.00	1.00	0.05	0.04	
			N470265	128.00	129.00	1.00	0.07	0.02	
			N470266	129.00	130.00	1.00	0.06	0.04	
			N470267	130.00	131.00	1.00	0.09	0.03	
			N470268	131.00	132.00	1.00	0.11	0.19	
			N470269	132.00	133.00	1.00	0.11	0.15	
			N470270	133.00	134.00	1.00	0.11	0.1	
			N470272	134.00	135.00	1.00	0.04	0.1	
			N470273	135.00	136.00	1.00	0.1	0.19	
			N470274	136.00	137.00	1.00	0.05	0.05	
			N470276	137.00	138.00	1.00	0.07	0.1	
			N470277	138.00	139.00	1.00	0.04	0.05	
			N470278	139.00	140.00	1.00	0.04	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N470279	140.00	141.00	1.00	0.05	0.05	
			N470280	141.00	142.00	1.00	0.04	0.05	
			N470281	142.00	143.00	1.00	0.05	0.08	
			N470282	143.00	144.00	1.00	0.05	0.05	
			N470283	144.00	145.00	1.00	0.06	0.05	
			N470285	145.00	146.00	1.00	0.05	0.02	
			N470286	146.00	147.00	1.00	0.06	0.03	
146.82	147.72	**FD Felsic Dyke** Dark brown to brownish-red, fine grained, massive felsic dyke. Upper contact sharp at 40 dca. Lower contact sharp at 55 dca.	N470287	147.00	148.00	1.00	0.05	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
147.72 -	174.25	**SYEN Syenite** Greenish-grey to dark grey with reddish-brown intervals, massive syenite. Medium grained. 1-3mm subhedral feldspar phenocrysts from 168 to 172. Several pegmatitic dykes from upper contact to 168.7 varying in thickness from 115cm to 1.5m. From 168.75 to 169.1 dark green, massive mafic dyke, upper contact at 50 dca; lower contact at 30 dca.	N470288	148.00	149.00	1.00	0.05	0.02	
			N470289	149.00	150.00	1.00	0.04	0.01	
			N470290	150.00	151.00	1.00	0.04	0.06	
			N470292	151.00	152.00	1.00	0.09	0.05	
			N470293	152.00	153.00	1.00	0.04	0.01	
			N470294	153.00	154.00	1.00	0.04	0.01	
			N470296	154.00	155.00	1.00	0.06	0.03	
			N470297	155.00	156.00	1.00	0.05	0.07	
			N470298	156.00	157.00	1.00	0.03	0.02	
			N470299	157.00	158.00	1.00	0.08	0.03	
			N470300	158.00	159.00	1.00	0.1	0.05	
			N470301	159.00	160.00	1.00	0.09	0.06	
			N470302	160.00	161.00	1.00	0.03	0.06	
			N470303	161.00	162.00	1.00	0.04	0.08	
			N470305	162.00	163.00	1.00	0.03	0.11	
			N470306	163.00	164.00	1.00	0.03	0.05	
			N470307	164.00	165.00	1.00	0.03	0.04	
			N470308	165.00	166.00	1.00	0.02	0.03	
			N470309	166.00	167.00	1.00	0.02	0.1	
			N470310	167.00	168.00	1.00	0.02	0.12	
			N470312	168.00	169.00	1.00	0.07	0.1	
			N470313	169.00	170.00	1.00	0.05	0.12	
			N470314	170.00	171.00	1.00	0.03	0.2	
			N470316	171.00	172.00	1.00	0.07	0.13	
			N470317	172.00	173.00	1.00	0.09	0.11	
			N470318	173.00	174.25	1.25	0.05	0.04	
174.25 -	174.80	**MD Mafic Dyke** Dark green, massive, fine grained mafic dyke. Upper contact sharp at 30 dca. Lower contact sharp at 25 dca.	N470319	174.25	174.80	0.55	0.16	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
174.80	176.80	**SYEN Syenite** Medium to dark grey, medium grained, massive syenite. Weak gneissic banding at 30 dca. Dark brown biotite interstitial to milky white feldspar.	N470320	174.80	175.80	1.00	0.06	0.1	
			N470321	175.80	176.80	1.00	0.07	0.1	
176.80	181.12	**MD Mafic Dyke** Dark green to brownish-green, massive, fine grained, weakly foliated mafic dyke. Composed mainly of chlorite and biotite. Upper contact sharp at 50 dca. Weak foliation at 45 to 50 dca. From 179.2 to 179.9 syenite section. Minor 5-10mm, folded quartz-carbonate veinlets. 5cm fault at 177.3m; at 35 dca. Lower contact sharp at 45 dca.	N470322	176.80	178.00	1.20	0.28	0.02	3
			N470323	178.00	179.00	1.00	0.15	0.03	2.85
			N470325	179.00	180.00	1.00	0.01	0.07	
			N470326	180.00	181.12	1.12	0.07	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
181.12	216.50	**SYEN Syenite** Medium grey to greenish-grey, medium grained, massive syenite. Few reddish-brown to white pegmatitic sections at 191, 198.6 to 199.5 and 207m. Weak gneissic banding at 50 dca. One weakly conductive graphite veinlet at 207.85.	N470327	181.12	182.00	0.88	0.03	0.1	
			N470328	182.00	183.00	1.00	0.02	0.06	
			N470329	183.00	184.00	1.00	0.09	0.22	
			N470330	184.00	185.00	1.00	0.03	0.14	
			N470332	185.00	186.00	1.00	0.02	0.1	
			N470333	186.00	187.00	1.00	0.05	0.09	
			N470334	187.00	188.00	1.00	0.01	0.04	
			N470336	188.00	189.00	1.00	0.04	0.16	
			N470337	189.00	190.00	1.00	0.06	0.15	
			N470338	190.00	191.00	1.00	0.03	0.15	
			N470339	191.00	192.00	1.00	0.04	0.08	
			N470340	192.00	193.00	1.00	0.05	0.14	
			N470341	193.00	194.00	1.00	0.1	0.18	
			N470342	194.00	195.00	1.00	0.06	0.11	
			N470343	195.00	196.00	1.00	0.02	0.1	
			N470345	196.00	197.00	1.00	0.09	0.12	
			N470346	197.00	198.00	1.00	0.05	0.19	
			N470347	198.00	199.00	1.00	0.08	0.18	
			N470348	199.00	200.00	1.00	0.01	0.05	
			N470349	200.00	201.00	1.00	0.01	0.08	
			N470350	201.00	202.00	1.00	0.01	0.09	
			N470352	202.00	203.00	1.00	0.01	0.13	
			N470353	203.00	204.00	1.00	0.05	0.1	
			N470354	204.00	205.00	1.00	0.04	0.19	
			N470356	205.00	206.00	1.00	0.08	0.28	
			N470357	206.00	207.00	1.00	0.07	0.22	
			N470358	207.00	208.00	1.00	0.46	0.27	
			N470359	208.00	209.00	1.00	0.09	0.18	
			N470360	209.00	210.00	1.00	0.06	0.11	
			N470361	210.00	211.00	1.00	0.02	0.16	
			N470362	211.00	212.00	1.00	0.06	0.12	
			N470363	212.00	213.00	1.00	0.09	0.14	
			N470365	213.00	214.00	1.00	0.17	0.13	
			N470366	214.00	215.00	1.00	0.02	0.19	
			N470367	215.00	215.80	0.80	0.04	0.16	
			N470368	215.80	216.50	0.70	0.03	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
216.50	221.35	**SYENOP Syenite with Graphitic Overprinting** Medium grey to greenish-grey, medium grained massive syenite. Very weak graphitic overprint as discrete mm size veinlets in three locations at 216.6, 218.75 and 221.10.	N470369	216.50	217.40	0.90	0.12	0.16	
			N470370	217.40	218.30	0.90	0.05	0.11	
			N470372	218.30	219.30	1.00	0.09	0.16	
			N470373	219.30	220.30	1.00	0.09	0.21	
			N470374	220.30	221.35	1.05	0.54	0.32	
221.35	234.44	**SYEN Syenite** Greenish-grey, weak reddish hue, medium grained, massive syenite. 1-3mm , subhedral, milky white feldspar phenocrysts.	N470376	221.35	222.28	0.93	0.08	0.36	
			N470377	222.28	223.20	0.92	0.06	0.14	
			N470378	223.20	224.10	0.90	0.27	0.28	
			N470379	224.10	225.00	0.90	0.03	0.15	
			N470380	225.00	226.00	1.00	0.01	0.15	
			N470381	226.00	227.00	1.00	0.06	0.2	
			N470382	227.00	228.00	1.00	0.02	0.12	
			N470383	228.00	229.00	1.00	0.03	0.06	
			N470385	229.00	230.00	1.00	0.03	0.1	
			N470386	230.00	231.00	1.00	0.05	0.12	
			N470387	231.00	232.10	1.10	0.15	0.23	
			N470388	232.10	233.25	1.15	0.08	0.25	
			N470389	233.25	234.44	1.19	0.08	0.2	
234.44	236.64	**ID Intermediate Dyke** Greenish-grey, fine grained, massive intermediate dyke. Weakly magnetic. Upper contact sharp irregular at 90 dca. Lower contact sharp at 70 dca.	N470390	234.44	235.50	1.06	0.02	0.06	
			N470392	235.50	236.64	1.14	0.05	0.28	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
236.64	296.53	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey with reddish-brown sections, medium grained massive syenite. Graphitic overprinting as hairline fracture filling graphite veinlets from 240m onwards. Weak to locally moderate graphite as dense veinlets from 243.5 to 243.7 and as a mixture of veinlets and fine dissemination in the groundmass from 248.5 to 252m. From 251.3 to 252 fracture subparallel to ca with graphite on fracture faces. Weak graphite overprint as fracture filling conductive veinlets from 266 to 270. From 272.6 to 296.53 weak graphite overprint in a medium to dark grey section of syenite that gets finer grained downhole. Lower contact sharp at 50 dca.	N470393	236.64	237.80	1.16	0.38	0.41	
			N470394	237.80	239.00	1.20	0.16	0.4	
			N470396	239.00	239.90	0.90	0.21	0.3	2.64
			N470397	239.90	240.70	0.80	0.32	0.09	2.67
			N470398	240.70	241.53	0.83	1.08	0.15	2.64
			N470399	241.53	242.13	0.60	1.18	0.05	2.87
			N470400	242.13	243.20	1.07	0.53	0.1	
			N470401	243.20	244.00	0.80	1.18	0.22	
			N470402	244.00	245.00	1.00	0.17	0.15	
			N470403	245.00	246.00	1.00	0.05	0.12	
			N470405	246.00	246.60	0.60	0.06	0.12	
			N470406	246.60	247.40	0.80	0.32	0.15	
			N470407	247.40	248.20	0.80	0.51	0.04	
			N470408	248.20	249.15	0.95	0.79	0.13	
			N470409	249.15	250.00	0.85	0.54	0.42	
			N470410	250.00	251.00	1.00	1.22	0.37	
			N470412	251.00	252.00	1.00	2.21	0.7	
			N470413	252.00	252.70	0.70	4.2	0.04	
			N470414	252.70	253.50	0.80	1.5	0.08	
			N470416	253.50	254.50	1.00	0.76	0.07	
			N470417	254.50	255.50	1.00	0.51	0.2	
			N470418	255.50	256.50	1.00	0.33	0.24	
			N470419	256.50	257.85	1.35	2.18	0.07	
			N470420	257.85	259.00	1.15	0.65	0.37	
			N470421	259.00	260.00	1.00	0.14	0.4	
			N470422	260.00	261.00	1.00	0.7	0.52	
			N470423	261.00	262.00	1.00	0.17	0.38	
			N470425	262.00	263.00	1.00	0.32	0.41	
			N470426	263.00	264.00	1.00	0.07	0.32	
			N470427	264.00	265.00	1.00	0.06	0.43	
			N470428	265.00	266.00	1.00	0.16	0.33	
			N470429	266.00	267.00	1.00	1.64	0.85	
			N470430	267.00	268.00	1.00	0.29	0.5	
			N470432	268.00	269.00	1.00	0.38	0.55	
			N470433	269.00	270.00	1.00	0.84	0.7	
			N470434	270.00	271.00	1.00	1.13	0.77	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N470436	271.00	271.65	0.65	1.28	0.44	
		N470437	271.65	272.60	0.95	0.37	0.22	
		N470438	272.60	273.80	1.20	0.19	0.54	
		N470439	273.80	275.00	1.20	0.41	0.54	
		N470440	275.00	276.00	1.00	0.8	0.49	
		N470441	276.00	277.00	1.00	0.12	0.38	
		N470442	277.00	278.00	1.00	0.26	0.39	
		N470443	278.00	279.00	1.00	0.92	0.53	
		N470445	279.00	280.00	1.00	0.15	0.48	
		N470446	280.00	281.00	1.00	0.55	0.32	
		N470447	281.00	282.00	1.00	0.28	0.57	
		N470448	282.00	283.00	1.00	0.13	0.59	
		N470449	283.00	284.00	1.00	0.36	0.65	
		N470450	284.00	285.00	1.00	1.12	0.42	
		N470452	285.00	286.00	1.00	0.89	0.98	
		N470453	286.00	287.00	1.00	0.76	0.79	
		N470454	287.00	288.00	1.00	1.45	0.69	
		N470456	288.00	289.00	1.00	2.48	0.67	
		N470457	289.00	290.00	1.00	0.9	1.65	
		N470458	290.00	291.00	1.00	1.22	0.5	
		N470459	291.00	292.00	1.00	1.16	0.34	
		N470460	292.00	293.00	1.00	1.06	0.54	
		N470461	293.00	294.00	1.00	0.84	0.42	
		N470462	294.00	294.90	0.90	0.63	0.55	
		N470463	294.90	295.72	0.82	0.38	0.56	
		N470465	295.72	296.53	0.81	1.02	0.77	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
296.53	304.60	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate dyke. Weak to moderate graphite overprint as fracture filling veinlets. Very fine grained from upper contact to 298.36. Hard.	N470466	296.53	297.50	0.97	1.14	0.5	2.71
			N470467	297.50	298.36	0.86	0.22	0.15	2.75
			N470468	298.36	299.20	0.84	0.42	0.23	2.97
			N470469	299.20	300.00	0.80	0.47	0.19	2.95
			N470470	300.00	301.00	1.00	0.53	0.28	
			N470472	301.00	302.00	1.00	0.51	0.3	
			N470473	302.00	303.00	1.00	0.92	0.36	
			N470474	303.00	303.80	0.80	0.95	0.41	
			N470476	303.80	304.60	0.80	0.83	0.36	
304.60	305.18	**FD Felsic Dyke** Reddish-pink, massive, fine grained felsic dyke. Both contacts sharp at 70 dca.	N470477	304.60	305.18	0.58	0.02	0.49	
305.18	308.00	**MDOP Mafic Dyke with Graphitic Overprinting** Medium grey with a light greenish-hue, fine grained, massive mafic to intermediate dyke. Moderate graphite overprint as fracture filling graphite veinlets. Medium hardness.	N470478	305.18	306.10	0.92	1.11	0.67	
			N470479	306.10	307.00	0.90	1.5	0.46	
			N470480	307.00	308.00	1.00	0.96	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
308.00	317.70	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, fine grained, massive weakly foliated syenite. Moderate graphite overprint as hairline fracture filling veinlets.	N470481	308.00	309.00	1.00	0.3	0.22	
			N470482	309.00	310.00	1.00	0.68	0.24	
			N470483	310.00	311.00	1.00	1.44	0.37	
			N470485	311.00	312.00	1.00	0.51	0.22	
			N470486	312.00	313.00	1.00	0.94	0.36	
			N470487	313.00	314.00	1.00	0.48	0.27	
			N470488	314.00	315.00	1.00	0.86	0.34	
			N470489	315.00	316.00	1.00	0.44	0.29	
			N470490	316.00	317.00	1.00	1.03	0.37	
			N470492	317.00	317.70	0.70	0.75	0.32	
317.70	329.40	**IDOP Intermediate Dyke with Graphitic Overprinting** Medium to dark grey, locally brownish-greyish, fine grained massive, intermediate dyke (?). Moderate graphite overprinting as hairline fracture filling veinlets Trace pyrite from 322 to 323 in a brownish-grey with fine grained biotite section. Weak foliation at low angle to ca. Contacts not very clear.	N470493	317.70	319.00	1.30	0.86	0.22	
			N470494	319.00	320.00	1.00	1.88	0.93	
			N470496	320.00	321.00	1.00	0.87	0.23	2.64
			N470497	321.00	322.00	1.00	0.5	0.34	2.71
			N470498	322.00	323.00	1.00	4.31	0.48	2.92
			N470499	323.00	324.00	1.00	1.11	0.41	2.73
			N470500	324.00	325.00	1.00	1.81	0.43	
			N470501	325.00	326.00	1.00	2.24	0.44	
			N470502	326.00	327.00	1.00	1.77	0.49	
			N470503	327.00	328.00	1.00	2.09	0.25	
			N470505	328.00	328.70	0.70	1.14	0.19	
			N470506	328.70	329.40	0.70	3.45	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
329.40	342.40	**SYENOP Syenite with Graphitic Overprinting** Medium grey with a pinkish hue, medium grained, massive syenite. Coarse pegmatitic feldspar crystals from 335 to 338 0.5 to 2cm across. Weak graphite overprint from upper contact to 340m as a few discrete fracture filling veinlets. 20cm felsic dyke at 338.8 to 339 at 40 dca. The amount of graphite veinlets increases from 340 to the lower contact.	N470507	329.40	330.20	0.80	0.75	0.2	
			N470508	330.20	331.00	0.80	1.29	0.41	
			N470509	331.00	332.00	1.00	1.69	0.51	
			N470510	332.00	333.00	1.00	2.81	0.37	
			N470512	333.00	334.00	1.00	1.15	0.07	
			N470513	334.00	335.00	1.00	1.04	0.08	
			N470514	335.00	336.00	1.00	0.88	0.04	
			N470516	336.00	337.00	1.00	0.71	0.21	2.61
			N470517	337.00	338.00	1.00	0.79	0.05	2.62
			N470518	338.00	339.00	1.00	0.71	0.17	2.61
			N470519	339.00	340.00	1.00	0.94	0.23	2.62
			N470520	340.00	341.00	1.00	3.6	1.69	2.64
			N470521	341.00	341.70	0.70	1.83	0.55	
			N470522	341.70	342.40	0.70	1.9	0.7	
342.40	347.25	**GRPBX Graphitic Breccia** Brecciated syenite with moderate graphite content as fracture filling veinlets and minor matrix flooding. 30-100cm breccia sections alternate with less fractured syenite. Breccia mainly from upper contact to 346m.	N470523	342.40	343.20	0.80	2.95	0.22	
			N470525	343.20	344.00	0.80	3.63	0.28	
			N470526	344.00	345.00	1.00	4.61	0.34	
			N470527	345.00	346.00	1.00	4.96	0.35	
			N470528	346.00	347.25	1.25	1.64	0.33	
347.25	347.72	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. Upper contact sharp at 65 dca. Lower contact sharp at 80 dca. Hard. No visible graphite.	N470529	347.25	347.72	0.47	0.04	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
347.72 -	350.53	**SYENOP Syenite with Graphitic Overprinting** Medium grey with a light pinkish hue, massive syenite. Moderate graphite overprint as fracture filling graphite veinlets. 1-2cm graphitic breccia sections. Broken core at lower contact.	N470530	347.72	348.50	0.78	1.25	0.21	
			N470532	348.50	349.50	1.00	1.79	0.18	
			N470533	349.50	350.53	1.03	2.36	0.37	
350.53 -	358.09	**GRPBX Graphitic Breccia** Dark grey to locally black graphitic breccia with good graphite content as graphitic flooding and fracture filling graphite veinlets. Syenite intervals from 350.9 to 351.7 and from 353.3 to 354.5. Few reddish-pink felsic dykes 5-15cm. Lower contact at 60 dca.	N470534	350.53	351.50	0.97	8.82	0.14	
			N470536	351.50	352.50	1.00	5	0.27	
			N470537	352.50	353.30	0.80	5.05	0.29	
			N470538	353.30	354.15	0.85	1.64	0.36	
			N470539	354.15	355.10	0.95	5.93	0.29	
			N470540	355.10	356.00	0.90	5.6	0.33	
			N470541	356.00	357.00	1.00	8.14	0.56	
			N470542	357.00	358.09	1.09	3.68	0.41	
358.09 -	360.25	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained, massive syenite. Weak graphite overprint as odd fracture filling graphite veinlet.	N470543	358.09	359.15	1.06	0.4	0.27	
			N470545	359.15	360.25	1.10	0.51	0.43	
360.25 -	362.70	**ID Intermediate Dyke** Medium grey with a light greenish tinge, fine grained massive intermediate dyke. Very fine grained, dark grey chilled margins at both contacts for 30cm. Upper contact sharp but irregular at 90 dca. Lower contact at 60 dca.	N470546	360.25	361.50	1.25	0.07	0.07	
			N470547	361.50	362.70	1.20	0.08	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
362.70 -	369.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained with locally pegmatitic feldspar. Weak to moderate graphite overprint in the last meter near the lower contact. Broken core at lower contact.	N470548	362.70	363.90	1.20	0.12	0.47	
			N470549	363.90	365.00	1.10	0.26	0.29	
			N470550	365.00	366.00	1.00	0.24	0.3	
			N470552	366.00	367.00	1.00	0.39	0.23	
			N470553	367.00	368.00	1.00	1.14	0.38	
			N470554	368.00	369.00	1.00	2.37	0.15	
369.00 -	375.84	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite with graphite flooding in the matrix and as fracture filling veinlets. Good graphite content. From 3171.86 to 373.10 massive syenite section no visible graphite, coarse feldspar phenocrysts. Good to locally very good graphite content from 373.5 to 375m.	N470556	369.00	370.00	1.00	7.85	0.23	
			N470557	370.00	370.90	0.90	6.6	0.32	
			N470558	370.90	371.86	0.96	6.79	0.27	
			N470559	371.86	373.10	1.24	0.65	0.3	
			N470560	373.10	374.00	0.90	7.06	0.22	
			N470561	374.00	375.00	1.00	9.34	0.22	
			N470562	375.00	375.84	0.84	9.6	0.22	
375.84 -	380.70	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey to pinkish grey, medium grained, massive syenite. Weak gneissic banding. Overall very weak graphite overprint, except for the 20cm section at the lower contact where graphite occurs as 1-3mm fracture filling veinlets.	N470563	375.84	377.00	1.16	1.27	0.19	
			N470565	377.00	378.00	1.00	1.79	0.08	
			N470566	378.00	379.00	1.00	0.54	0.22	
			N470567	379.00	380.00	1.00	0.65	0.22	
			N470568	380.00	380.70	0.70	3.77	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
380.70	381.30	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive dyke. Upper contact sharp at 40 dca. Lower contact sharp at 80 dca. No visible graphite.	N470569	380.70	381.30	0.60	0.64	0.16	
381.30	384.72	**GRPBX Graphitic Breccia** Medium to dark grey graphitic breccia. Graphite flooding in the matrix. Angular syenite fragments 1-3cm. Good graphite content from upper contact to 383.5 the lower half mainly fracture filling graphite veinlets.	N470570	381.30	382.20	0.90	9.04	0.39	
			N470572	382.20	383.10	0.90	12.9	0.28	
			N470573	383.10	384.00	0.90	7.09	0.2	
			N470574	384.00	384.72	0.72	4.1	0.09	
384.72	389.15	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, fine grained syenite. Good graphite overprint from upper contact to 386.2 as fracture filling graphite veinlets. 20cm brecciated section at 387.5. Lower contact sharp at 75 dca.	N470576	384.72	385.80	1.08	1.5	0.22	
			N470577	385.80	386.90	1.10	3.32	0.27	
			N470578	386.90	388.00	1.10	5.2	0.1	
			N470579	388.00	389.15	1.15	2.41	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
389.15	400.50	**ID Intermediate Dyke** Light to medium grey, massive, very fine grained, locally weakly magnetic dyke. Light grey to greenish-pinkish grey felsic injections of irregular shape from 389.1 to 391. Lower contact sharp at 45 dca.	N470580	389.15	390.10	0.95	0.05	0.04	
			N470581	390.10	391.00	0.90	0.04	0.04	
			N470582	391.00	392.00	1.00	0.04	0.08	
			N470583	392.00	393.00	1.00	0.05	0.05	
			N470585	393.00	394.00	1.00	0.01	0.02	
			N470586	394.00	395.00	1.00	0.01	0.1	
			N470587	395.00	396.00	1.00	0.04	0.03	
			N470588	396.00	397.00	1.00	0.03	0.03	
			N470589	397.00	398.00	1.00	0.1	0.04	
			N470590	398.00	398.80	0.80	0.07	0.13	
			N470592	398.80	399.70	0.90	0.07	0.28	
			N470593	399.70	400.50	0.80	0.07	0.29	
400.50	408.55	**SYEN Syenite** Medium grey to pinkish-grey, medium grained, massive syenite. No visible graphite. Weak gneissic banding at 35 dca.	N470594	400.50	401.20	0.70	0.14	0.23	
			N470596	401.20	402.10	0.90	0.17	0.22	
			N470597	402.10	403.00	0.90	0.16	0.23	
			N470598	403.00	404.00	1.00	0.05	0.06	
			N470599	404.00	405.00	1.00	0.07	0.06	
			N470600	405.00	406.00	1.00	0.08	0.07	
			N470601	406.00	406.80	0.80	0.17	0.13	
			N470602	406.80	407.65	0.85	0.2	0.2	
			N470603	407.65	408.55	0.90	0.18	0.29	
408.55	410.10	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Weak graphitic overprint that increases towards the lower contact from 409.3 to 410.	N470605	408.55	409.30	0.75	0.48	0.27	
			N470606	409.30	410.10	0.80	0.57	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
410.10	419.48	**GRPBX Graphitic Breccia** Medium grey to dark grey brecciated syenite. Good graphite content in the matrix from 410. 2 to 413 with minor barren syenite intervals. Trace pyrite as isolated blebs at 412.1. From 413 to 419.48 mainly fractured syenite with fracture filling graphite veinlets and few short 5-20cm graphitic breccia sections. Moderate graphite content overall.	N470607	410.10	411.00	0.90	8.68	0.47	
			N470608	411.00	412.00	1.00	5.76	0.21	
			N470609	412.00	413.00	1.00	9.69	0.28	
			N470610	413.00	414.00	1.00	0.81	0.28	
			N470612	414.00	415.00	1.00	2.66	0.31	
			N470613	415.00	416.00	1.00	1.81	0.28	
			N470614	416.00	417.00	1.00	7.04	0.28	
			N470616	417.00	418.00	1.00	3.25	0.4	
			N470617	418.00	418.80	0.80	6.31	0.22	
			N470618	418.80	419.48	0.68	3.61	0.14	
419.48	420.96	**SYEN Syenite** Medium grey to reddish-pink, massive syenite. No visible graphite. Upper contact sharp at 65 dca. Lower contact sharp at 75 dca.	N470619	419.48	420.25	0.77	0.25	0.04	
			N470620	420.25	420.96	0.71	0.13	0.16	
420.96	424.68	**ID Intermediate Dyke** Light to medium grey, fine grained, massive intermediate dyke. No visible graphite. Lower contact sharp at 30 dca.	N470621	420.96	421.90	0.94	0.05	0.29	
			N470622	421.90	422.80	0.90	0.04	0.08	
			N470623	422.80	423.70	0.90	0.03	0.03	
			N470625	423.70	424.68	0.98	0.08	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
424.68	425.61	**GRPBX Graphitic Breccia** Medium grey brecciated syenite. Moderate graphite content as flooding in the matrix and as fracture filling graphite veinlets. Lower contact sharp at 40 dca.	N470626	424.68	425.61	0.93	6.31	0.09	
425.61	430.09	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, medium grained syenite. Weak to moderate graphite overprinting as hairline fracture filling veinlets.	N470627	425.61	426.70	1.09	0.72	0.06	
			N470628	426.70	427.90	1.20	0.55	0.09	
			N470629	427.90	429.00	1.10	0.43	0.08	
			N470630	429.00	430.09	1.09	0.14	0.66	
430.09	441.10	**SYENSL Syenite Sill (unmineralized)** Medium to dark grey, fine to medium grained, massive, mafic to intermediate intrusive, "gabbroic texture". Upper contact sharp at 70 dca. From 439 to 441.10 blocky core. Core fragments 1-5cm.	N470632	430.09	430.90	0.81	0.07	0.24	
			N470633	430.90	431.62	0.72	0.06	0.05	
			N470634	431.62	432.60	0.98	0.06	0.14	
			N470636	432.60	433.60	1.00	0.08	0.05	
			N470637	433.60	434.60	1.00	0.19	0.37	
			N470638	434.60	435.60	1.00	0.23	0.32	
			N470639	435.60	436.60	1.00	0.07	0.13	
			N470640	436.60	437.60	1.00	0.07	0.13	
			N470641	437.60	438.60	1.00	0.07	0.18	
			N470642	438.60	439.50	0.90	0.01	0.15	
			N470643	439.50	440.25	0.75	0.01	0.28	
			N470645	440.25	441.10	0.85	0.01	0.31	
441.10	442.12	**FD Felsic Dyke** Pinkish-grey, fine grained, massive felsic dyke.	N470646	441.10	442.12	1.02	0.01	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
442.12	466.98	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive intrusive, mafic to intermediate composition, "gabbroic texture". From 462.15 to 463.85 medium to dark grey, fine grained, massive intermediate to felsic dyke. Hard. Both contacts at 50 dca.	N470647	442.12	443.15	1.03	0.01	0.17	
			N470648	443.15	444.10	0.95	0.01	0.07	
			N470649	444.10	445.00	0.90	0.01	0.06	
			N470650	445.00	446.00	1.00	0.02	0.03	
			N470652	446.00	447.00	1.00	0.01	0.19	
			N470653	447.00	448.00	1.00	0.02	0.04	
			N470654	448.00	449.00	1.00	0.02	0.28	
			N470656	449.00	450.00	1.00	0.01	0.21	
			N470657	450.00	451.00	1.00	0.02	0.04	
			N470658	451.00	452.00	1.00	0.02	0.02	
			N470659	452.00	453.00	1.00	0.02	0.04	
			N470660	453.00	454.00	1.00	0.01	0.16	
			N470661	454.00	455.00	1.00	0.01	0.12	
			N470662	455.00	456.00	1.00	0.01	0.23	
			N470663	456.00	457.00	1.00	0.01	0.08	
			N470665	457.00	458.00	1.00	0.02	0.12	
			N470666	458.00	459.00	1.00	0.02	0.2	
			N470667	459.00	460.00	1.00	0.01	0.09	
			N470668	460.00	461.00	1.00	0.01	0.13	
			N470669	461.00	462.15	1.15	0.02	0.06	
			N470670	462.15	463.00	0.85	0.02	0.05	
			N470672	463.00	463.85	0.85	0.02	0.04	
			N470673	463.85	465.00	1.15	0.02	0.04	
			N470674	465.00	466.00	1.00	0.04	0.12	
			N470676	466.00	466.98	0.98	0.04	0.14	
466.98	469.00	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, medium grained syenite. Weak to moderate graphite overprinting as hairline fracture filling veinlets. Lower contact gradational.	N470677	466.98	468.00	1.02	1.12	0.26	
			N470678	468.00	469.00	1.00	1.28	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
469.00	470.56	**ID Intermediate Dyke** Medium grey to greenish-grey, fine to medium grained, massive intermediate dyke (?). Lower contact gradational.	N470679	469.00	470.56	1.56	0.14	0.12	
470.56	477.11	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, medium grained syenite. Weak to moderate graphite overprinting as hairline fracture filling veinlets. 470.56 to 471.20 Pink orthoclase chill margin between unit and upper unit. 475.85 to 475.97 Graphitic breccia at 45 dca. Lower contact gradational.	N470680	470.56	472.00	1.44	0.2	0.2	
			N470681	472.00	473.00	1.00	0.37	0.32	
			N470682	473.00	474.00	1.00	0.47	0.27	
			N470683	474.00	475.00	1.00	0.37	0.3	
			N470685	475.00	476.00	1.00	1.61	0.17	
			N470686	476.00	477.11	1.11	0.5	0.29	
477.11	478.33	**ID Intermediate Dyke** Green-grey. Fine grained massive intermediate to felsic dyke. Lower contact ground.	N470687	477.11	478.33	1.22	0.11	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
478.33	506.77	**SYENOP Syenite with Graphitic Overprinting** Pink tinged light grey medium grained syenite or granodiorite. Massive and very hard. Weak local graphite fracture filling. 496.06 to 496.58 Felsic to intermediate dyke at 45 dca. 500.62 to 500.96 felsic to intermediate dyke at 60 dca.	N470688	478.33	479.00	0.67	0.15	0.38	
			N470689	479.00	480.22	1.22	0.38	0.36	
			N470690	480.22	481.00	0.78	0.11	0.19	
			N470691	480.22	481.00	0.78	0.1	0.2	
			N470692	481.00	482.00	1.00	0.09	0.44	
			N470693	482.00	483.00	1.00	0.07	0.14	
			N470694	483.00	484.00	1.00	0.53	0.15	
			N470696	484.00	485.00	1.00	1.85	0.24	
			N470697	485.00	486.00	1.00	0.94	0.35	
			N470698	486.00	487.00	1.00	0.38	0.28	
			N470699	487.00	488.00	1.00	0.2	0.35	
			N470700	488.00	489.00	1.00	0.29	0.36	
			N470701	489.00	489.50	0.50	0.32	0.35	
			N470702	489.50	490.00	0.50	0.33	0.28	
			N470703	490.00	491.50	1.50	0.59	0.34	
			N470705	491.50	493.00	1.50	0.17	0.31	
			N470706	493.00	494.00	1.00	0.26	0.31	
			N470707	494.00	495.00	1.00	0.38	0.31	
			N470708	495.00	496.06	1.06	0.2	0.27	
			N470709	496.06	496.58	0.52	0.07	0.16	
			N470710	496.58	498.00	1.42	0.33	0.25	
			N470711	496.58	498.00	1.42	0.33	0.25	
			N470712	498.00	499.50	1.50	0.23	0.32	
			N470713	499.50	501.00	1.50	0.37	0.23	
			N470714	501.00	502.50	1.50	0.3	0.29	
			N470716	502.50	504.00	1.50	0.56	0.33	
			N470717	504.00	505.50	1.50	0.49	0.45	
			N470718	505.50	506.77	1.27	0.66	0.69	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
506.77	508.75	**ID Intermediate Dyke** Green-grey. Fine grained massive intermediate to felsic dyke. Upper contact contains 50 cm of biotite and chlorite alteration. 1% blebby pyrrhotite. EOH 508.75m	N470719	506.77	508.00	1.23	2.25	0.9	
			N470720	508.00	508.75	0.75	0.07	0.73	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	432.00	24/05/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545810.4	682809.3			Reflex APS		29/05/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.70	118.60		-49.60	Chibougamau Diamond Drilling		31/05/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Mike Roberts		Mike Roberts		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	366	Casing Pulled	Casing (1)	39.50	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)	66.00	Steel	☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test East Pipe at depth from Northwest	135.97m to 285.98m graphite rich breccia and overprinted syenite with some minor intrusive dykes. From 101.00m to 359.00m, the assays for this intersection averaged 3.07% Cg over 258.00m; within this intersection a higher grade graphite zone from 133.00m to 287.00m averaged 4.79% Cg over 154.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
201.00			123.8	114.8	-49.7	-49.7	☑	Reflex EZ	56163	
216.00			124.5	115.5	-49.6	-49.6	☑	Reflex EZ	56136	
219.00			124.5	115.5	-49.6	-49.6	☑	Reflex EZ	56148	
231.00			124.7	115.7	-49.8	-49.8	☑	Reflex EZ	56115	
234.00			124.7	115.7	-49.8	-49.8	☑	Reflex EZ	56113	
237.00			124.6	115.6	-49.8	-49.8	☑	Reflex EZ	56128	
240.00			123.2	114.2	-49.2	-49.2	☑	Reflex EZ	56118	
252.00			125.2	116.2	-49.7	-49.7	☑	Reflex EZ	56080	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
255.00			124.7	115.7	-49.5	-49.5	☑	Reflex EZ	56139	
261.00			125.1	116.1	-49.7	-49.7	☑	Reflex EZ	56079	
264.00			124.7	115.7	-49.6	-49.6	☑	Reflex EZ	56072	
267.00			125.1	116.1	-49.7	-49.7	☑	Reflex EZ	56093	
270.00			125.3	116.3	-49.7	-49.7	☑	Reflex EZ	56101	
273.00			125.3	116.3	-49.6	-49.6	☑	Reflex EZ	56107	
276.00			125.3	116.3	-49.5	-49.5	☑	Reflex EZ	56103	
279.00			125.3	116.3	-49.5	-49.5	☑	Reflex EZ	56110	
282.00			125.4	116.4	-49.5	-49.5	☑	Reflex EZ	56121	
285.00			125.2	116.2	-49.4	-49.4	☑	Reflex EZ	56115	
288.00			125.7	116.7	-49.5	-49.5	☑	Reflex EZ	56103	
291.00			125.7	116.7	-49.5	-49.5	☑	Reflex EZ	56143	
294.00			125.1	116.1	-49.2	-49.2	☑	Reflex EZ	56130	
297.00			126.7	117.7	-49.8	-49.8	☑	Reflex EZ	56110	
300.00			125.3	116.3	-49.3	-49.3	☑	Reflex EZ	56171	
303.00			125.2	116.2	-49.3	-49.3	☑	Reflex EZ	56132	
306.00			125.6	116.6	-49.2	-49.2	☑	Reflex EZ	56057	
309.00			125.4	116.4	-49.2	-49.2	☑	Reflex EZ	56136	
312.00			125.2	116.2	-49.2	-49.2	☑	Reflex EZ	56089	
315.00			125.2	116.2	-49.1	-49.1	☑	Reflex EZ	56156	
318.00			125.5	116.5	-49.1	-49.1	☑	Reflex EZ	56085	
321.00			125.8	116.8	-49.2	-49.2	☑	Reflex EZ	56111	
324.00			125.5	116.5	-49.2	-49.2	☑	Reflex EZ	56107	
327.00			124.9	115.9	-49.1	-49.1	☑	Reflex EZ	56151	
330.00			125.3	116.3	-49	-49	☑	Reflex EZ	56126	
333.00			125.2	116.2	-49	-49	☑	Reflex EZ	56153	
336.00			125.4	116.4	-49	-49	☑	Reflex EZ	56139	
342.00			125.4	116.4	-49.1	-49.1	☑	Reflex EZ	56150	
345.00			125.3	116.3	-48.9	-48.9	☑	Reflex EZ	56134	
348.00			125.3	116.3	-49	-49	☑	Reflex EZ	56141	
351.00			125.3	116.3	-48.8	-48.8	☑	Reflex EZ	56179	
354.00			125.5	116.5	-48.8	-48.8	☑	Reflex EZ	56121	
357.00			125.8	116.8	-48.7	-48.7	☑	Reflex EZ	56168	
360.00			125.5	116.5	-48.8	-48.8	☑	Reflex EZ	56055	
363.00			126.2	117.2	-48.8	-48.8	☑	Reflex EZ	56123	
366.00			126.4	117.4	-48.8	-48.8	☑	Reflex EZ	56114	
369.00			126.4	117.4	-48.8	-48.8	☑	Reflex EZ	56223	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
372.00			125.6	116.6	-48.8	-48.8	☑	Reflex EZ	56225	
375.00			125.6	116.6	-48.6	-48.6	☑	Reflex EZ	56093	
378.00			125.8	116.8	-48.7	-48.7	☑	Reflex EZ	56132	
381.00			126	117	-48.6	-48.6	☑	Reflex EZ	56101	
384.00			126.2	117.2	-48.7	-48.7	☑	Reflex EZ	56034	
387.00			126.2	117.2	-48.6	-48.6	☑	Reflex EZ	56008	
390.00			126.2	117.2	-48.6	-48.6	☑	Reflex EZ	56003	
393.00			125.3	116.3	-48.4	-48.4	☑	Reflex EZ	56158	
396.00			125.8	116.8	-48.4	-48.4	☑	Reflex EZ	56124	
399.00			125.7	116.7	-48.5	-48.5	☑	Reflex EZ	56116	
402.00			125.9	116.9	-48.5	-48.5	☑	Reflex EZ	55993	
405.00			125.9	116.9	-48.5	-48.5	☑	Reflex EZ	56109	
408.00			126.2	117.2	-48.4	-48.4	☑	Reflex EZ	56099	
411.00			125.8	116.8	-48.4	-48.4	☑	Reflex EZ	56053	
414.00			126.3	117.3	-48.4	-48.4	☑	Reflex EZ	56213	
417.00			126.6	117.6	-48.4	-48.4	☑	Reflex EZ	56132	
423.00			125.7	116.7	-48.4	-48.4	☑	Reflex EZ	56102	
426.00			125.6	116.6	-48.4	-48.4	☑	Reflex EZ	56069	
429.00			126	117	-48.3	-48.3	☑	Reflex EZ	56037	
432.00			126	117	-48.3	-48.3	☑	Reflex EZ	56125	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	63.00	**OB Overburden** Mixture of dirt and boulders. HW casing to 39.5m. NW casing to 66.00m.							
63.00	65.35	**SED Sediment** Very light brown, tan to white limestone. Broken blocks of 10 cm or less. Lower contact gouge and/or unconformity.	N470721	64.00	65.35	1.35	0.07	0.05	
65.35	65.85	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinged monzonite? With moderate fracture filling graphite up to 5%. Broken blocky core possible boulder? Lower contact fractured and ground at 50 dca.	N470722	65.35	65.85	0.50	0.09	1.79	
65.85	66.63	**SYEN Syenite** Orange pink syenitic gneiss. Massive and very hard. Broken and blocky with several fractures all pieces 5cm or less. Lower contact ground.	N470723	65.85	66.83	0.98	0.02	0.06	
66.63	68.50	**MD Mafic Dyke** Green to dark green. Massive and very hard. 68.25 to 68.50 Very dark possible sulphide rusting. 68.45 to 68.50 Rusty fault gouge at 40 dca to lower contact.	N470725	66.83	67.50	0.67	0.1	0.01	
			N470726	67.50	68.50	1.00	0.11	0.01	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
68.50	135.97	**SYENOP Syenite with Graphitic Overprinting** Orange to red tinge of orthoclase and/or hematite. Massive Very Hard. Weak to locally moderate fracture filling graphite. 69.95 to 70.05 Pudding stone at 42 dca. 77.79 to 77.89 Healed chloritic fault at 35 dca. 85.58 to 85.66 Chlorite epidote graphite fault gouge at 85 dca. 97.33 to 97.46 Weathered fault at 60 dca. 115.05 to 115.10 Weathered malachite fault at 60 dca. 119.16 to 119.20 Malachite calcite graphitic fault gouge at 55 dca. 123.57 to 123.83 Fault at 35 dca. 124.26 to 124.76 Fault at 50 dca. Broken blocky 127.54 to 126.68 Fault at 30 dca. Rusty fractures. 130.75 to 135.97 Fault zone broken blocky core. 132.86 10cm of malachite rusty graphite? Fault gouge at 73 dca. Lower contact faulted at 45 dca.	N470727	68.50	69.00	0.50	0.19	0.05	
			N470728	69.00	70.00	1.00	0.6	0.03	
			N470729	70.00	71.00	1.00	0.02	0.1	
			N470730	71.00	72.00	1.00	0.09	0.07	
			N470731	71.00	72.00	1.00	0.08	0.08	
			N470732	72.00	73.00	1.00	0.64	0.02	
			N470733	73.00	74.00	1.00	0.18	0.02	
			N470734	74.00	75.00	1.00	0.33	0.03	
			N470736	75.00	76.00	1.00	0.27	0.03	2.56
			N470737	76.00	77.00	1.00	0.39	0.03	2.54
			N470738	77.00	78.00	1.00	0.32	0.03	2.59
			N470739	78.00	79.00	1.00	0.07	0.13	2.58
			N470740	79.00	80.00	1.00	0.05	0.2	2.62
			N470741	80.00	81.00	1.00	0.06	0.2	
			N470742	81.00	82.00	1.00	0.22	0.21	
			N470743	82.00	83.00	1.00	0.02	0.18	
			N470745	83.00	84.00	1.00	0.01	0.21	
			N470746	84.00	85.00	1.00	0.14	0.21	
			N470747	85.00	86.00	1.00	1.61	0.07	
			N470748	86.00	87.00	1.00	0.31	0.22	
			N470749	87.00	88.00	1.00	0.08	0.23	
			N470750	88.00	89.00	1.00	0.33	0.16	
			N470751	88.00	89.00	1.00	0.3	0.18	
			N470752	89.00	90.00	1.00	0.16	0.15	
			N470753	90.00	91.00	1.00	0.09	0.22	
			N470754	91.00	92.00	1.00	0.21	0.21	
			N470756	92.00	93.00	1.00	0.34	0.19	
			N470757	93.00	94.00	1.00	1.23	0.13	
			N470758	94.00	95.00	1.00	0.12	0.19	
			N470759	95.00	96.00	1.00	0.54	0.16	
			N470760	96.00	97.00	1.00	0.07	0.16	
			N470761	97.00	98.00	1.00	0.2	0.15	
			N470762	98.00	99.00	1.00	0.19	0.18	
			N470763	99.00	100.00	1.00	0.09	0.2	
			N470765	100.00	101.00	1.00	0.25	0.21	
			N470766	101.00	102.00	1.00	0.87	0.15	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N470767	102.00	103.00	1.00	0.91	0.08	
		N470768	103.00	104.00	1.00	0.4	0.18	
		N470769	104.00	105.00	1.00	1.25	0.14	
		N470770	105.00	106.00	1.00	1.32	0.15	
		N470771	105.00	106.00	1.00	1.45	0.15	
		N470772	106.00	107.00	1.00	0.14	0.19	
		N470773	107.00	108.00	1.00	0.39	0.1	
		N470774	108.00	109.00	1.00	0.36	0.2	
		N470776	109.00	110.00	1.00	1.16	0.13	
		N470777	110.00	111.00	1.00	0.82	0.14	
		N470778	111.00	112.00	1.00	0.57	0.18	
		N470779	112.00	113.00	1.00	1.55	0.16	
		N470780	113.00	114.00	1.00	0.12	0.26	
		N470781	114.00	115.00	1.00	0.22	0.21	
		N470782	115.00	116.00	1.00	0.51	0.23	
		N470783	116.00	117.00	1.00	0.96	0.18	
		N470785	117.00	118.00	1.00	0.33	0.24	
		N470786	118.00	119.00	1.00	0.19	0.28	
		N470787	119.00	120.00	1.00	0.38	0.13	
		N470788	120.00	121.00	1.00	0.23	0.15	
		N470789	121.00	122.00	1.00	1.06	0.03	
		N470790	122.00	123.00	1.00	1.55	0.1	
		N470791	122.00	123.00	1.00	1.54	0.1	
		N470792	123.00	124.00	1.00	0.52	0.13	
		N470793	124.00	125.00	1.00	0.45	0.12	
		N470794	125.00	126.00	1.00	0.12	0.28	
		N470796	126.00	127.00	1.00	0.26	0.24	
		N470797	127.00	128.00	1.00	0.38	0.13	
		N470798	128.00	129.00	1.00	0.34	0.12	
		N470799	129.00	130.00	1.00	0.27	0.21	
		N470800	130.00	131.00	1.00	0.39	0.17	
		N470801	131.00	132.00	1.00	0.13	0.13	
		N470802	132.00	133.00	1.00	0.66	0.14	
		N470803	133.00	134.00	1.00	1.03	0.18	
		N470805	134.00	135.00	1.00	1.83	0.12	
		N470806	135.00	135.97	0.97	1.71	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
135.97	142.65	**GRPBX Graphitic Breccia** Dark grey to black breccia with small to large breccia fragments mostly rounded with good graphite matrix. Very hard. 136.64 to 137.43 What appears to be a sandstone breccia fragments are sandy textured and very light coloured at 27 dca. 140.25 to 140.57 Faulted broken and blocky at 70 dca. Lower contact sharp at 55 dca.	N470807	135.97	137.00	1.03	11.1	0.08	
			N470808	137.00	138.00	1.00	10.9	0.08	
			N470809	138.00	139.00	1.00	5.78	0.06	
			N470811	139.00	140.00	1.00	9.29	0.14	
			N470810	139.00	140.00	1.00	9.64	0.15	
			N470812	140.00	141.00	1.00	9.09	0.09	
			N470813	141.00	142.00	1.00	2.45	0.13	
			N470814	142.00	142.65	0.65	9.47	0.18	
142.65	144.50	**SYENOP Syenite with Graphitic Overprinting** Grey with pink tinge. Massive and very hard with weak graphite fracture filling and overprinting. Lower contact sharp at 58 dca.	N470816	142.65	143.50	0.85	0.35	0.27	
			N470817	143.50	144.50	1.00	0.42	0.21	
144.50	146.47	**GRPBX Graphitic Breccia** 60% graphite breccia with 40% moderately overprinted syenite gneiss. Lower contact sharp at 75 dca.	N470818	144.50	145.50	1.00	9.84	0.14	
			N470819	145.50	146.47	0.97	7.62	0.08	
146.47	147.78	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive and very hard. Weak graphite. Lower contact sharp at 60 dca.	N470820	146.47	147.78	1.31	0.72	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
147.78 -	151.00	**GRPBX Graphitic Breccia** Dark grey. Well brecciated. Small sharp angular fragments in strong graphite matrix. Lower contact at 37 dca.	N470821	147.78	149.00	1.22	4.1	0.16	
			N470822	149.00	150.00	1.00	11.7	0.18	
			N470823	150.00	151.00	1.00	14.6	0.23	
151.00 -	153.23	**IDOP Intermediate Dyke with Graphitic Overprinting** Dark grey very fine grained to aphanitic. Massive felsic to intermediate intrusive. Unit has 1-5% graphite that occurs as 14 dca streaks. (not fracture filling). Lower contact sharp at 14 dca.	N470825	151.00	152.00	1.00	1.69	0.55	
			N470826	152.00	153.23	1.23	0.15	0.28	
153.23 -	154.42	**SYENOP Syenite with Graphitic Overprinting** Light grey pink to orange massive syenite gneiss with weak graphite overprinting. Very hard. Lower contact at 90 dca.	N470827	153.23	154.42	1.19	0.42	0.19	
154.42 -	159.40	**GRPBX Graphitic Breccia** Dark grey graphite breccia. Unit contains local cherty fragments with fracture cleavages filled with graphite. 156.00 to 157.10 Fault zone at 30dca. Broken blocky fragments of core. Lower contact sharp at 56 dca.	N470828	154.42	155.00	0.58	11	0.25	
			N470829	155.00	156.00	1.00	7.5	0.14	
			N470831	156.00	157.00	1.00	8.74	0.1	
			N470830	156.00	157.00	1.00	8.76	0.13	
			N470832	157.00	158.00	1.00	12.2	0.15	
			N470833	158.00	159.00	1.00	15.8	0.14	
			N470834	159.00	159.40	0.40	16	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
159.40 -	160.83	**SYENOP Syenite with Graphitic Overprinting** Light grey with olive green fracture filling. Massive but malachite fracture filling gives unit a apparent foliation at 56 dca. Weak graphite. Lower contact sharp at 56 dca.	N470836	159.40	160.00	0.60	0.94	0.1	
			N470837	160.00	160.83	0.83	1.48	0.1	
160.83 -	175.87	**GRPBX Graphitic Breccia** Dark grey with dark orange tint of syenite breccia fragments. Very hard. Well mineralized with graphite. 163.00 to 163.18 Fault with malachite. At 65dca. Broken blocky core. 168.75 to 169.00 Fault at 45dca. Broken blocky core. Lower contact sharp at 53 dca.	N470838	160.83	162.00	1.17	3.28	0.27	
			N470839	162.00	163.00	1.00	8.69	0.13	
			N470840	163.00	164.00	1.00	7.75	0.21	
			N470841	164.00	165.00	1.00	8.36	0.12	
			N470842	165.00	166.00	1.00	5.77	0.11	
			N470843	166.00	167.00	1.00	6.89	0.2	
			N470845	167.00	168.00	1.00	6.69	0.19	2.57
			N470846	168.00	169.00	1.00	6.52	0.19	2.56
			N470847	169.00	170.00	1.00	9.07	0.15	2.62
			N470848	170.00	171.00	1.00	2.54	0.26	2.6
			N470849	171.00	172.00	1.00	6.08	0.26	2.62
			N470850	172.00	173.00	1.00	11.2	0.23	
			N470851	172.00	173.00	1.00	12.3	0.24	
			N470852	173.00	174.00	1.00	7.04	0.35	
			N470853	174.00	175.00	1.00	4.64	0.29	
			N470854	175.00	175.87	0.87	9.83	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
175.87	182.22	**SYENOP Syenite with Graphitic Overprinting** Dark grey and massive syenite gneiss. Very hard. Unit is moderately to strongly overprinted with graphite. 174.44 to 180.66 Cross cutting biotite chlorite mafic dyke that crosses 50% of syenite at 5 dca. Lower contact sharp at 48 dca.	N470856	175.87	177.00	1.13	4.83	0.31	
			N470857	177.00	178.00	1.00	0.52	0.25	
			N470858	178.00	179.00	1.00	0.35	0.2	
			N470859	179.00	180.00	1.00	0.3	0.15	
			N470860	180.00	181.00	1.00	0.91	0.16	
			N470861	181.00	182.22	1.22	1.77	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.22	206.72	**GRPBX Graphitic Breccia** Grey to dark grey with 1 to 20cm syenite breccia fragments that are subrounded to rounded in a well mineralized graphitic matrix. Very hard. 204.09 to 204.90 Interbedded syenite gneiss. Upper contact at 30 dca. Lower contact sharp at 50 dca. Lower contact sharp at 73 dca.	N470862	182.22	183.00	0.78	14.1	0.35	
			N470863	183.00	184.00	1.00	9.37	0.23	
			N470865	184.00	185.00	1.00	8.66	0.25	
			N470866	185.00	186.00	1.00	6.82	0.28	
			N470867	186.00	187.00	1.00	7.75	0.32	
			N470868	187.00	188.00	1.00	7.22	0.18	
			N470869	188.00	189.00	1.00	7.28	0.26	
			N470870	189.00	190.00	1.00	5.34	0.12	
			N470871	189.00	190.00	1.00	5	0.12	
			N470872	190.00	191.00	1.00	6.57	0.12	
			N470873	191.00	192.00	1.00	8.45	0.21	
			N470874	192.00	193.00	1.00	6.98	0.23	
			N470876	193.00	194.00	1.00	3.72	0.34	
			N470877	194.00	195.00	1.00	9.4	0.39	
			N470878	195.00	196.00	1.00	11	0.25	
			N470879	196.00	197.00	1.00	8.67	0.33	
			N470880	197.00	198.00	1.00	8.06	0.36	
			N470881	198.00	199.00	1.00	6.35	0.31	
			N470882	199.00	200.00	1.00	6.83	0.32	
			N470883	200.00	201.00	1.00	8.63	0.39	
			N470885	201.00	202.00	1.00	7.34	0.29	
			N470886	202.00	203.00	1.00	4.63	0.25	
			N470887	203.00	204.09	1.09	3.43	0.34	
			N470888	204.09	204.90	0.81	0.57	0.34	
			N470889	204.90	206.00	1.10	9.08	0.16	
			N470891	206.00	206.72	0.72	5.03	0.5	
			N470890	206.00	206.72	0.72	4.77	0.5	
206.72	207.87	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive. Very hard. Moderate graphite fracture filling and overprinting. Lower contact sharp at 73 dca.	N470892	206.72	207.87	1.15	0.56	0.38	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
207.87	223.10	**GRPBX Graphitic Breccia** Dark grey and black. Very hard. Sharp angular breccia fragments in a strong graphite matrix. 210.31 to 210.40 Syenite dyke at 90 dca. 222.20 to 222.23 Malachite fault at 59 dca. Lower contact sharp at 61 dca.	N470893	207.87	209.00	1.13	10.4	0.25	
			N470894	209.00	210.00	1.00	8.94	0.29	
			N470896	210.00	211.00	1.00	5.79	0.26	
			N470897	211.00	212.00	1.00	6.85	0.26	
			N470898	212.00	213.00	1.00	6.02	0.29	
			N470899	213.00	214.00	1.00	6.78	0.46	
			N470900	214.00	215.00	1.00	8.09	0.37	
			N470901	215.00	216.00	1.00	5.21	0.29	
			N470902	216.00	217.00	1.00	5.02	0.38	
			N470903	217.00	218.00	1.00	4.51	0.33	
			N470905	218.00	219.00	1.00	11.35	0.84	
			N470906	219.00	220.00	1.00	5.88	0.29	
			N470907	220.00	221.00	1.00	0.89	0.14	
			N470908	221.00	222.00	1.00	3.48	0.21	
			N470909	222.00	223.10	1.10	8.8	0.62	
223.10	227.86	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive. Very hard. Weak graphite fracture filling and overprinting. Lower contact sharp at 63 dca.	N470911	223.10	224.00	0.90	0.92	0.37	
			N470910	223.10	224.00	0.90	0.92	0.35	
			N470912	224.00	225.00	1.00	0.3	0.39	
			N470913	225.00	226.00	1.00	0.32	0.36	
			N470914	226.00	227.00	1.00	0.52	0.37	
			N470916	227.00	227.86	0.86	0.35	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
227.86 -	231.00	**GRPBX Graphitic Breccia** Dark grey and black. Very hard. Sharp angular breccia fragments in a strong graphite matrix. Lower contact ground at 90 dca.	N470917	227.86	229.00	1.14	8.56	0.27	
			N470918	229.00	230.00	1.00	3.64	0.33	
			N470919	230.00	231.00	1.00	7.61	0.27	
231.00 -	245.78	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive. Very hard. Moderate graphite fracture filling and overprinting. Lower contact gradational and fractured at 50 dca.	N470920	231.00	232.00	1.00	1.78	0.26	
			N470921	232.00	233.00	1.00	1.75	0.29	
			N470922	233.00	234.00	1.00	0.42	0.29	
			N470923	234.00	235.00	1.00	1.13	0.34	
			N470925	235.00	236.00	1.00	1.18	0.31	
			N470926	236.00	237.00	1.00	1.31	0.34	
			N470927	237.00	238.00	1.00	0.66	0.31	
			N470928	238.00	239.00	1.00	0.71	0.35	
			N470929	239.00	240.00	1.00	0.84	0.33	
			N470930	240.00	241.00	1.00	1.03	0.31	
			N470931	240.00	241.00	1.00	1.08	0.32	
			N470932	241.00	242.00	1.00	1.09	0.3	
			N470933	242.00	243.00	1.00	0.76	0.32	
			N470934	243.00	244.00	1.00	0.49	0.35	
			N470936	244.00	245.00	1.00	0.24	0.29	
			N470937	245.00	245.78	0.78	0.37	0.36	
245.78 -	246.79	**GR Granite** Orange and pink vuggy granite dyke. Lower contact at 53 dca.	N470938	245.78	246.79	1.01	0.05	0.91	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
246.79	254.38	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive. Very hard. Moderate graphite fracture filling and overprinting. Units fracturing almost grades towards a breccia locally. 247.00 to 247.18 Granite at 50 dca. 247.89 to 247.95 Granite at 54 dca. Lower contact sharp at 69 dca.	N470939	246.79	248.00	1.21	0.74	0.39	
			N470940	248.00	249.00	1.00	0.27	0.34	
			N470941	249.00	250.00	1.00	0.29	0.32	
			N470942	250.00	251.00	1.00	0.26	0.3	
			N470943	251.00	252.00	1.00	0.73	0.34	
			N470945	252.00	253.00	1.00	1.84	0.36	
			N470946	253.00	254.00	1.00	1.14	0.3	
			N470947	254.00	254.38	0.38	1.8	0.38	
254.38	256.62	**GRPBX Graphitic Breccia** Dark grey and black. Very hard. Sharp angular breccia fragments in a strong graphite matrix. Lower contact sharp at 70 dca.	N470948	254.38	255.00	0.62	6.98	0.32	
			N470949	255.00	256.00	1.00	6.52	0.33	
			N470951	256.00	256.62	0.62	4.82	0.3	
			N470950	256.00	256.62	0.62	4.74	0.3	
256.62	263.39	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Massive. Very hard. Weak graphite fracture filling and overprinting. Lower contact irregular at 33 dca.	N470952	256.62	258.00	1.38	0.63	0.35	
			N470953	258.00	259.00	1.00	0.48	0.37	
			N470954	259.00	260.00	1.00	0.44	0.32	
			N470956	260.00	261.00	1.00	0.35	0.25	
			N470957	261.00	262.00	1.00	0.55	0.4	
			N470958	262.00	263.39	1.39	0.5	0.4	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
263.39	285.98	**GRPBX Graphitic Breccia** Dark grey and black. Very hard. Sharp angular breccia fragments in a strong graphite matrix. 269.06 to 269.07 1cm fault gouge at 35 dca. 283.66 to 283.85 granite dyke at 45 dca. Lower contact folded at 39 dca.							
			N470959	263.39	264.00	0.61	7.16	0.21	
			N470960	264.00	265.00	1.00	4.32	0.36	
			N470961	265.00	266.00	1.00	6.54	0.25	
			N470962	266.00	267.00	1.00	3.07	0.34	
			N470963	267.00	268.00	1.00	11	0.37	
			N470965	268.00	269.00	1.00	9.15	0.33	
			N470966	269.00	270.00	1.00	1.66	0.27	
			N470967	270.00	271.00	1.00	1.46	0.32	
			N470968	271.00	272.00	1.00	3.89	0.03	
			N470969	272.00	273.00	1.00	7.18	0.12	
			N470971	273.00	274.00	1.00	5.58	0.36	
			N470970	273.00	274.00	1.00	5.57	0.35	
			N470972	274.00	275.00	1.00	3.44	0.31	
			N470973	275.00	276.00	1.00	7.24	0.42	
			N470974	276.00	277.00	1.00	1.88	0.33	
			N470976	277.00	278.00	1.00	1.88	0.32	
			N470977	278.00	279.00	1.00	5.97	0.27	
			N470978	279.00	280.00	1.00	9.81	0.37	
			N470979	280.00	281.00	1.00	2.25	0.32	
			N470980	281.00	282.00	1.00	0.83	0.3	
			N470981	282.00	283.00	1.00	7.9	0.35	
			N470982	283.00	284.00	1.00	3.39	0.3	
			N470983	284.00	285.00	1.00	3.54	0.31	
			N470985	285.00	285.98	0.98	6.69	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
285.98	327.50	**SYENOP Syenite with Graphitic Overprinting** Light grey to grey. Orange tinge. Massive. Very hard. Weak graphite fracture filling and overprinting. 304.80 to 305.02 Granite dyke and or gneiss fragment at 51 dca. 308.68 to 309.06 Granite dyke or gneiss fragment at 55 to 50 dca. 326.02 to 326.08 mafic dyke at 70 dca. 326.19 1 cm fault gouge at 60 dca. Lower contact at 65 dca.	N470986	285.98	287.00	1.02	1.14	0.32	
			N470987	287.00	288.00	1.00	0.2	0.28	
			N470988	288.00	289.00	1.00	0.23	0.24	
			N470989	289.00	290.00	1.00	0.28	0.22	
			N470990	290.00	291.00	1.00	0.13	0.16	
			N470991	290.00	291.00	1.00	0.12	0.18	
			N470992	291.00	292.00	1.00	0.35	0.32	
			N470993	292.00	293.00	1.00	0.31	0.46	
			N470994	293.00	294.00	1.00	0.21	0.28	
			N470996	294.00	295.00	1.00	0.24	0.37	
			N470997	295.00	296.00	1.00	0.22	0.39	
			N470998	296.00	297.00	1.00	0.38	0.62	
			N470999	297.00	298.00	1.00	0.46	0.27	
			N471000	298.00	299.00	1.00	0.56	0.23	
			N471001	299.00	300.00	1.00	0.51	0.39	
			N471002	300.00	301.00	1.00	0.44	0.27	
			N471003	301.00	302.00	1.00	0.69	0.39	
			N471005	302.00	303.00	1.00	0.25	0.33	
			N471006	303.00	304.00	1.00	0.09	0.3	
			N471007	304.00	305.02	1.02	0.24	0.33	
			N471008	305.02	306.00	0.98	0.31	0.22	
			N471009	306.00	307.00	1.00	0.68	0.34	
			N471011	307.00	308.00	1.00	2.47	0.52	
			N471010	307.00	308.00	1.00	2.66	0.55	
			N471012	308.00	308.68	0.68	1.1	0.29	
			N471013	308.68	309.06	0.38	0.06	0.78	
			N471014	309.06	310.00	0.94	1.05	0.3	
			N471016	310.00	311.00	1.00	0.7	0.12	
			N471017	311.00	312.00	1.00	0.59	0.24	
			N471018	312.00	313.00	1.00	0.7	0.34	
			N471019	313.00	314.00	1.00	0.82	0.52	
			N471020	314.00	315.00	1.00	0.37	0.56	
			N471021	315.00	316.00	1.00	0.31	0.47	
			N471022	316.00	317.00	1.00	0.34	0.22	
			N471023	317.00	318.00	1.00	0.3	0.4	
			N471025	318.00	319.00	1.00	0.11	0.42	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N471026	319.00	320.00	1.00	0.16	0.41	
			N471027	320.00	321.00	1.00	0.14	0.3	
			N471028	321.00	322.00	1.00	0.1	0.38	
			N471029	322.00	323.00	1.00	0.04	0.37	
			N471030	323.00	324.00	1.00	0.27	0.5	
			N471031	323.00	324.00	1.00	0.29	0.5	
			N471032	324.00	325.00	1.00	0.4	0.3	
			N471033	325.00	326.02	1.02	0.56	0.14	
			N471034	326.02	327.00	0.98	1.3	0.5	
			N471036	327.00	327.50	0.50	1.48	0.43	
327.50	329.66	**MD Mafic Dyke** Dark green. Fine grained. Chlorite and biotite alteration. Moderately hard. Lower contact at 43 dca.	N471037	327.50	328.50	1.00	0.66	0.16	
			N471038	328.50	329.66	1.16	0.55	0.22	
329.66	334.69	**SYENOP Syenite with Graphitic Overprinting** A mixture of syenite gneiss and interbedded mafic dykes and alteration. Grey to dark green. Moderately hard to very hard. Biotite and chlorite alteration with local weak graphite. Lower contact at 37 dca.	N471039	329.66	330.08	0.42	0.17	0.42	
			N471040	330.08	331.00	0.92	0.7	0.3	
			N471041	331.00	332.00	1.00	0.39	0.4	
			N471042	332.00	333.00	1.00	0.82	0.54	
			N471043	333.00	334.00	1.00	0.98	0.87	
			N471045	334.00	334.69	0.69	2.18	1.05	
334.69	335.85	**MD Mafic Dyke** Dark green. Massive. Moderately hard. Chlorite and biotite alteration. Lower contact irregular at 45 dca.	N471046	334.69	335.85	1.16	0.87	0.19	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
335.85	377.06	**GRDROP Granodiorite with Graphitic Overprinting** Light grey to grey with some pink and white tinge. This unit is different than syenites above with far less orthoclase and more quartz. Medium to coarse grained and dioritic texture. Massive and very hard. Unit has local fracture filling graphite from weak to moderate but not abundant throughout. Lower contact sharp at 69 dca.	N471047	335.85	337.00	1.15	0.13	0.42	
			N471048	337.00	338.00	1.00	0.15	0.61	
			N471049	338.00	339.00	1.00	0.11	0.44	
			N471050	339.00	340.00	1.00	0.07	0.21	
			N471051	339.00	340.00	1.00	0.06	0.21	
			N471052	340.00	341.00	1.00	0.11	0.48	
			N471053	341.00	342.00	1.00	0.18	0.44	
			N471054	342.00	343.00	1.00	0.06	0.23	
			N471056	343.00	344.00	1.00	0.11	0.31	
			N471057	344.00	345.00	1.00	0.12	0.59	
			N471058	345.00	346.00	1.00	0.11	0.49	
			N471059	346.00	347.00	1.00	1.1	0.37	
			N471060	347.00	348.00	1.00	1.23	0.7	
			N471061	348.00	349.00	1.00	0.63	0.46	
			N471062	349.00	350.00	1.00	0.23	0.41	
			N471063	350.00	351.00	1.00	0.31	0.57	
			N471065	351.00	352.00	1.00	0.72	0.51	
			N471066	352.00	353.00	1.00	0.7	0.44	
			N471067	353.00	354.00	1.00	1.04	0.33	
			N471068	354.00	355.00	1.00	0.27	0.14	
			N471069	355.00	356.00	1.00	0.14	0.4	
			N471071	356.00	357.00	1.00	0.15	0.31	
			N471070	356.00	357.00	1.00	0.23	0.32	
			N471072	357.00	358.00	1.00	0.38	0.22	
			N471073	358.00	359.00	1.00	0.57	0.09	
			N471074	359.00	360.00	1.00	0.17	0.11	
			N471076	360.00	361.00	1.00	0.33	0.08	
			N471077	361.00	362.00	1.00	0.07	0.17	
			N471078	362.00	363.00	1.00	0.08	0.19	
			N471079	363.00	364.00	1.00	0.03	0.14	
			N471080	364.00	365.00	1.00	0.03	0.11	
			N471081	365.00	366.00	1.00	0.2	0.34	
			N471082	366.00	367.00	1.00	0.07	0.18	
			N471083	367.00	368.00	1.00	0.09	0.36	
			N471085	368.00	369.00	1.00	0.01	0.13	
			N471086	369.00	370.00	1.00	0.4	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N471087	370.00	371.00	1.00	0.49	0.38	
			N471088	371.00	372.00	1.00	0.06	0.23	
			N471089	372.00	373.00	1.00	0.04	0.16	
			N471090	373.00	374.00	1.00	0.23	0.14	
			N471091	373.00	374.00	1.00	0.13	0.15	
			N471092	374.00	375.00	1.00	0.13	0.15	
			N471093	375.00	376.00	1.00	0.1	0.12	
			N471094	376.00	377.06	1.06	0.04	0.1	
377.06	380.97	**ID Intermediate Dyke** Light to olive green. Mostly very fine grained to aphanitic with coarser grained chills. Unit is typical of the intermediate and or diabase dyke swarm unit in other holes. Massive and very hard. Lower contact sharp at 40 dca.	N471096	377.06	378.00	0.94	0.05	0.18	
			N471097	378.00	379.00	1.00	0.03	0.06	
			N471098	379.00	380.00	1.00	0.01	0.03	
			N471099	380.00	380.97	0.97	0.01	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
380.97	404.16	**GRDROP Granodiorite with Graphitic Overprinting** As previous granodiorite unit. This unit is different than syenites above with far less orthoclase and more quartz. Medium to coarse grained and dioritic texture. Massive and very hard. Unit has local fracture filling graphite from weak to moderate but not abundant throughout. 394.16 to 394.29 Granite dyke at 20 dca. 395.08 to 395.29 Granite dyke at 53 dca. 397.77 to 398.62 Mafic dyke. Upper contact very irregular at 33 dca. Lower contact 1 cm of chloritic fault gouge at 67 dca. 399.47 to 399.99 Intermediate dyke at 48 dca. 400.99 to 401.33 Intermediate dyke. Upper contact at 63 dca. Lower contact 4cm of chill margin at 43 dca. 403.75 to 414.16 Felsic and mafic dykes at lower contact at 14 dca. Lower contact at 41 dca.	N471100	380.97	382.00	1.03	0.17	0.16	
			N471101	382.00	383.00	1.00	0.11	0.29	
			N471102	383.00	384.00	1.00	0.25	0.24	
			N471103	384.00	385.00	1.00	0.23	0.2	
			N471105	385.00	386.00	1.00	0.59	0.29	
			N471106	386.00	387.00	1.00	0.12	0.39	
			N471107	387.00	388.00	1.00	0.08	0.29	
			N471108	388.00	389.00	1.00	0.06	0.24	
			N471109	389.00	390.00	1.00	0.03	0.08	
			N471110	390.00	391.00	1.00	0.15	0.1	
			N471111	390.00	391.00	1.00	0.14	0.1	
			N471112	391.00	392.00	1.00	0.17	0.16	
			N471113	392.00	393.00	1.00	0.29	0.31	
			N471114	393.00	394.00	1.00	0.42	0.46	
			N471116	394.00	395.00	1.00	0.06	0.22	
			N471117	395.00	396.00	1.00	0.09	0.34	
			N471118	396.00	397.00	1.00	0.14	0.22	
			N471119	397.00	397.77	0.77	0.09	0.37	
			N471120	397.77	398.62	0.85	0.12	0.03	
			N471121	398.62	399.47	0.85	0.22	0.28	
			N471122	399.47	399.99	0.52	0.04	0.12	
			N471123	399.99	400.99	1.00	0.26	0.26	
			N471125	400.99	402.00	1.01	0.11	0.15	
			N471126	402.00	403.00	1.00	0.09	0.3	
			N471127	403.00	404.16	1.16	0.11	0.08	
404.16	406.12	**MD Mafic Dyke** Dark green. Biotite chlorite alteration. Moderately hard and massive. Lower contact gradational at 85 dca.	N471128	404.16	405.00	0.84	0.15	0.01	
			N471129	405.00	406.12	1.12	0.13	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
406.12	432.00	**SYENSL Syenite Sill (unmineralized)** Similar to unmineralized intrusive unit intersected in previous holes. This unit is different than syenites above with far less orthoclase and more quartz. Medium to coarse grained, "gabbroic texture". Massive and very hard. Unit has local fracture filling graphite from weak to moderate but not abundant throughout. Unit has interbedded wispy chlorite biotite throughout. EOH 432.0m	N471131	406.12	407.00	0.88	0.19	0.11	
			N471130	406.12	407.00	0.88	0.16	0.11	
			N471132	407.00	408.00	1.00	0.06	0.29	
			N471133	408.00	409.00	1.00	0.06	0.17	
			N471134	409.00	410.00	1.00	0.01	0.14	
			N471136	410.00	411.00	1.00	0.07	0.28	2.69
			N471137	411.00	412.00	1.00	0.66	0.49	2.68
			N471138	412.00	413.00	1.00	0.73	0.52	2.68
			N471139	413.00	414.00	1.00	0.38	0.22	2.68
			N471140	414.00	415.00	1.00	0.13	0.13	2.8
			N471141	415.00	416.00	1.00	0.07	0.16	
			N471142	416.00	417.00	1.00	0.06	0.17	
			N471143	417.00	418.00	1.00	0.05	0.15	
			N471145	418.00	419.00	1.00	0.05	0.1	
			N471146	419.00	420.00	1.00	0.04	0.08	
			N471147	420.00	421.00	1.00	0.27	0.38	
			N471148	421.00	422.00	1.00	0.11	0.1	
			N471149	422.00	423.00	1.00	0.14	0.17	
			N471150	423.00	424.00	1.00	0.14	0.14	
			N471151	423.00	424.00	1.00	0.12	0.13	
			N471152	424.00	425.00	1.00	0.3	0.18	
			N471153	425.00	426.00	1.00	0.12	0.27	
			N471154	426.00	427.00	1.00	0.1	0.51	
			N471156	427.00	428.00	1.00	0.16	0.26	
			N471157	428.00	429.00	1.00	0.14	0.3	
			N471158	429.00	430.00	1.00	0.11	0.19	
			N471159	430.00	431.00	1.00	0.09	0.15	
			N471160	431.00	432.00	1.00	0.04	0.11	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	291.00	29/05/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545831.6	682949.6			Reflex APS	02/06/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	123.30	230.40		-50.10	Chibougamau Diamond Drilling	05/06/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	219	*Casing Pulled*	*Casing (1)*	72.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*	28.50	Steel	☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East Pipe at depth from Northeast	68.80m to 138.19m graphite rich breccia and overprited syenite. 138.19m to 172.97m overprinted mafic dykes and syenite. The assays from 66.00m to 242.00m averaged 2.65% Cg over 176.00m; within this intersection a higher grade graphite zone from 66.00m to 176.00m averaged 4.15% Cg over 110.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
189.00			237.9	228.9	-51.7	-51.7	☑	Reflex EZ	55889	
213.00			237.7	228.7	-51.9	-51.9	☑	Reflex EZ	56228	
225.00			237.8	228.8	-51.9	-51.9	☑	Reflex EZ	56160	
228.00			238.1	229.1	-51.8	-51.8	☑	Reflex EZ	56197	
237.00			238.9	229.9	-51.7	-51.7	☑	Reflex EZ	56211	
246.00			238.5	229.5	-51.8	-51.8	☑	Reflex EZ	56130	
255.00			238.5	229.5	-51.7	-51.7	☑	Reflex EZ	56142	
258.00			237.9	228.9	-51.7	-51.7	☑	Reflex EZ	56181	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
261.00			239.4	230.4	-51.6	-51.6	☑	Reflex EZ	56162	
264.00			238.1	229.1	-51.7	-51.7	☑	Reflex EZ	56233	
270.00			238.1	229.1	-51.7	-51.7	☑	Reflex EZ	56108	
273.00			239	230	-51.6	-51.6	☑	Reflex EZ	56253	
276.00			238.6	229.6	-51.6	-51.6	☑	Reflex EZ	56154	
282.00			239	230	-51.6	-51.6	☑	Reflex EZ	56187	
288.00			238.2	229.2	-51.6	-51.6	☑	Reflex EZ	56166	
291.00			238.5	229.5	-51.7	-51.7	☑	Reflex EZ	56174	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	65.00	**OB Overburden** 0.00 to 60.25 Overburden of muskeg, mud, small granitite boulders and rocks, and limestone fragments. 60.25 to 62.57 Conglomerate mudstone. Still soft. Dark brown mud with 1-2cm rounded limestone pieces within. Very soft. 62.57 to 65.00 limestone and granite rocks.							
65.00	68.80	**SED Sediment** Light brown to tan limestone. Broken and blocky. 68.14 68.27 Graphitic broken rock (boulder?) Lower contact fractured or faulted at 80 dca.	N471161	66.00	67.00	1.00	0.5	0.14	
			N471162	67.00	68.00	1.00	0.52	0.28	
			N471163	68.00	68.80	0.80	0.39	0.54	
68.80	80.55	**GRPBX Graphitic Breccia** Black with orange. Coarse grained syenite within strong mineralized graphite breccia. Unit is extremely weathered. Unit is well fractured and faulted with malachite alteration and fracture filling gouge seams. 69.00 to 69.54 Graphite fault gouge at 90 dca. Lower contact very irregular at 10 dca.	N471165	68.80	70.00	1.20	4.37	0.09	
			N471166	70.00	71.00	1.00	6	0.12	
			N471167	71.00	72.00	1.00	2.79	0.07	
			N471168	72.00	73.00	1.00	4.74	0.08	
			N471169	73.00	74.00	1.00	11.3	0.09	
			N471171	74.00	75.00	1.00	6.1	0.05	
			N471170	74.00	75.00	1.00	4.03	0.05	
			N471172	75.00	76.00	1.00	2	0.05	
			N471173	76.00	77.00	1.00	7.05	0.04	
			N471174	77.00	78.00	1.00	7.93	0.04	
			N471176	78.00	79.00	1.00	9.4	0.03	
			N471177	79.00	80.00	1.00	9.85	0.03	
			N471178	80.00	80.55	0.55	5.05	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
80.55	82.08	**SYENOP Syenite with Graphitic Overprinting** Orange to pink to rusty brown. Unit is extremely weathered and altered. May be originally a syenite gneiss or possibly an intermediate dyke. Several dozen fractures filled with malachite and or graphite. Strong hematite alteration. Lower contact fault gouge at 65 dca.	N471179	80.55	81.00	0.45	0.14	0.01	
			N471180	81.00	82.08	1.08	0.05	0.05	
82.08	83.59	**GRPBX Graphitic Breccia** As previous breccia. Black with orange. Strong graphite content. 82.70 to 82.80 Dyke or gneiss fragment at 145 dca. Lower contact sharp at 65 dca.	N471181	82.08	83.00	0.92	8.23	0.05	
			N471182	83.00	83.59	0.59	4.97	0.03	
83.59	85.82	**SYENOP Syenite with Graphitic Overprinting** As previous syenite. Orange to pink to rusty brown. Unit is extremely weathered and altered. May be originally a syenite gneiss or possibly an intermediate dyke. Several dozen fractures filled with malachite and or graphite. Strong hematite alteration. Lower contact sharp fracture at 55 dca.	N471183	83.59	84.00	0.41	0.91	0.07	
			N471185	84.00	85.00	1.00	0.07	0.03	
			N471186	85.00	85.82	0.82	0.07	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.82	- 138.19	**GRPBX Graphitic Breccia** Black and orange to downhole dark grey with orange tinge. Strong graphite matrix with large rounded breccia fragments. Unit is strongly weathered from 85.82 to 110.00 m. Numerous fault zones throughout. 86.50 to 86.55 Malachite altered dyke at 70 dca. 95.56 to 95.60 dyke at 70 dca. 101.17 to 102.43 2mm malachite seam gouge at 0 dca. 105.00 to 106.90 fault zone broken blocky several faults at 30 dca. Malachite and hematite alteration. 107.90 to 108.05 rusty fault gouge at 50 dca. 126.70 2mm malachite fault gouge at 15 dca. 127.10 2 mm fault gouge at 20 dca. 130.17 to 134.20 Fault zone. 130.99 to 132.40 Possible felsic dyke intrudes here. Broken blocky core. Unit is fine grained to very fine grained with brecciated fragments and healed fracture filling of graphite malachite and olive green alteration. Upper contact at 45 dca lower contact at 65 dca. 132.95 to 133.86 Fracture filled dyke similar to previous contacts at 115dca. Lower contact sharp at 35 dca.	N471187	85.82	87.00	1.18	7.25	0.02	
			N471188	87.00	88.00	1.00	4.55	0.02	
			N471189	88.00	89.00	1.00	2.99	0.02	
			N471190	89.00	90.00	1.00	6.9	0.02	
			N471191	89.00	90.00	1.00	5.4	0.02	
			N471192	90.00	91.00	1.00	9.37	0.02	
			N471193	91.00	92.00	1.00	8.36	0.03	
			N471194	92.00	93.00	1.00	1.38	0.05	
			N471196	93.00	94.00	1.00	5.06	0.08	2.45
			N471197	94.00	95.00	1.00	7.02	0.02	2.51
			N471198	95.00	96.00	1.00	12.9	0.03	2.46
			N471199	96.00	97.00	1.00	9.09	0.02	2.55
			N471200	97.00	98.00	1.00	10.2	0.02	2.48
			N471201	98.00	99.00	1.00	5.09	0.02	
			N471202	99.00	100.00	1.00	10.1	0.02	
			N471203	100.00	101.00	1.00	11	0.01	
			N471205	101.00	102.00	1.00	2.87	0.09	
			N471206	102.00	103.00	1.00	3.18	0.03	
			N471207	103.00	104.00	1.00	7.58	0.02	
			N471208	104.00	105.00	1.00	5.18	0.06	
			N471209	105.00	106.00	1.00	3.64	0.19	
			N471210	106.00	107.00	1.00	8.99	0.02	
			N471211	106.00	107.00	1.00	10.1	0.03	
			N471212	107.00	108.00	1.00	6.26	0.07	
			N471213	108.00	109.00	1.00	3.68	0.14	
			N471214	109.00	110.00	1.00	10.75	0.02	
			N471216	110.00	111.00	1.00	1.63	0.08	
			N471217	111.00	112.00	1.00	4.27	0.04	
			N471218	112.00	113.00	1.00	8.59	0.04	
			N471219	113.00	114.00	1.00	10.4	0.03	
			N471220	114.00	115.00	1.00	6.64	0.08	
			N471221	115.00	116.00	1.00	4.12	0.19	
			N471222	116.00	117.00	1.00	7.06	0.03	
			N471223	117.00	118.00	1.00	7.68	0.15	
			N471225	118.00	119.00	1.00	14.3	0.04	
			N471226	119.00	120.00	1.00	9.19	0.07	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N471227	120.00	121.00	1.00	11.9	0.08	
		N471228	121.00	122.00	1.00	5.79	0.05	
		N471229	122.00	123.00	1.00	8.78	0.05	
		N471231	123.00	124.00	1.00	3.92	0.08	
		N471230	123.00	124.00	1.00	4.65	0.08	
		N471232	124.00	125.00	1.00	2.91	0.07	
		N471233	125.00	126.00	1.00	4.4	0.07	
		N471234	126.00	127.00	1.00	9.31	0.18	
		N471236	127.00	128.00	1.00	7.86	0.1	
		N471237	128.00	129.00	1.00	4.06	0.08	
		N471238	129.00	130.00	1.00	3.49	0.08	
		N471239	130.00	131.00	1.00	9.48	0.05	
		N471240	131.00	132.00	1.00	3.86	0.22	
		N471241	132.00	133.00	1.00	5.59	0.23	
		N471242	133.00	133.86	0.86	2.67	0.26	
		N471243	133.86	135.00	1.14	5.87	0.09	
		N471245	135.00	136.00	1.00	5.79	0.08	
		N471246	136.00	137.00	1.00	8.46	0.07	
		N471247	137.00	138.19	1.19	7.14	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
138.19	152.00	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard syenite gneiss. Local very minor graphite fracture filling. Lower contact sharp at 25 dca.	N471248	138.19	139.00	0.81	0.81	0.22	
			N471249	139.00	140.00	1.00	0.11	0.22	
			N471251	140.00	141.00	1.00	0.13	0.18	
			N471250	140.00	141.00	1.00	0.13	0.19	
			N471252	141.00	142.00	1.00	0.86	0.17	
			N471253	142.00	143.00	1.00	0.25	0.2	
			N471254	143.00	144.00	1.00	0.06	0.16	
			N471256	144.00	145.00	1.00	0.11	0.16	2.62
			N471257	145.00	146.00	1.00	0.24	0.21	2.62
			N471258	146.00	147.00	1.00	0.77	0.21	2.62
			N471259	147.00	148.00	1.00	0.29	0.25	2.62
			N471260	148.00	149.00	1.00	0.32	0.25	2.63
			N471261	149.00	150.00	1.00	0.36	0.25	
			N471262	150.00	151.00	1.00	0.09	0.28	
			N471263	151.00	152.00	1.00	1.53	0.22	
152.00	153.31	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green. Biotite alteration. Possible alteration zone instead of dyke but colour and sharp contacts suggest it is a mafic dyke. Medium grained. Massive but fracture filling gives an apparent foliation of 25 to 45 dca. Some fracture filling graphite.	N471265	152.00	153.31	1.31	0.22	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
153.31	171.90	**SYENOP Syenite with Graphitic Overprinting** As previous syenite gneiss. Light grey with orange tinge. Massive and very hard. Medium grained. Local minor graphite fracture filling. 169.00 to 171.90 Fault zone. Strong hematite. 169.40 to 170.00 Chlorite hematite breccia fault (not graphite breccia but fault breccia though graphite occurs as some fracture filling. 169.4 at 30 dca. 170m breccia at 25 dca. Fault zone is extremely fractured into small pieces. Lower contact sharp at 21 dca.	N471266	153.31	154.00	0.69	0.37	0.26	
			N471267	154.00	155.00	1.00	0.24	0.28	
			N471268	155.00	156.00	1.00	0.5	0.25	
			N471269	156.00	157.00	1.00	0.46	0.27	
			N471270	157.00	158.00	1.00	0.19	0.23	
			N471271	157.00	158.00	1.00	0.19	0.22	
			N471272	158.00	159.00	1.00	0.14	0.21	
			N471273	159.00	160.00	1.00	0.34	0.26	
			N471274	160.00	161.00	1.00	0.1	0.2	
			N471276	161.00	162.00	1.00	0.15	0.08	
			N471277	162.00	163.00	1.00	0.17	0.16	
			N471278	163.00	164.00	1.00	0.13	0.19	
			N471279	164.00	165.00	1.00	0.05	0.23	
			N471280	165.00	166.00	1.00	0.23	0.24	
			N471281	166.00	167.00	1.00	0.09	0.25	
			N471282	167.00	168.00	1.00	0.14	0.25	
			N471283	168.00	169.40	1.40	0.08	0.23	
			N471285	169.40	170.00	0.60	2.95	2.4	
			N471286	170.00	171.00	1.00	0.56	0.3	
			N471287	171.00	171.90	0.90	3.44	0.1	
171.90	172.97	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green and rusty red. Likely a biotite chlorite hematite alteration zone from a dyke intrusion. Moderate graphite fracture filling. Lower contact sharp at 27 dca.	N471288	171.90	172.97	1.07	2.25	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
172.97	291.00	**SYEN Syenite** Light grey with orange orthoclase tinge. Massive syenite gneiss with granodiorite possibly as well. No distinct contacts though. Medium grained with a salt and pepper dioritic texture. Several areas of hematite alteration due to numerous fracture areas. Local minor graphite fracture filling. 172.97 to 173.15 graphite fracture filling likely due to contact with above dyke. 191.53 to 192.02 Cross cutting chlorite biotite and muscovite alteration at irregularly 55 to 33 dca. 230.80 to 230.90 Chill margin at 39 dca. 230.90 to 231.57 Mafic dyke at 49 dca. 236.90 to 237.13 Mafic dyke at 39. Upper contact and 31 dca lace. With 1cm qv at 236.93m at 39 dca. EOH 291.0m								
			N471289	172.97	174.00	1.03	0.81	0.24	
			N471290	174.00	175.00	1.00	0.46	0.29	
			N471291	174.00	175.00	1.00	0.48	0.28	
			N471292	175.00	176.00	1.00	0.42	0.27	
			N471293	176.00	177.00	1.00	0.16	0.25	
			N471294	177.00	178.00	1.00	0.27	0.22	
			N471296	178.00	179.00	1.00	0.09	0.28	
			N471297	179.00	180.00	1.00	0.06	0.24	
			N471298	180.00	181.00	1.00	0.07	0.22	
			N471299	181.00	182.00	1.00	0.11	0.21	
			N471300	182.00	183.00	1.00	0.12	0.24	
			N471301	183.00	184.00	1.00	0.06	0.22	
			N471302	184.00	185.00	1.00	0.14	0.19	
			N471303	185.00	186.00	1.00	0.12	0.17	
			N471305	186.00	187.00	1.00	0.15	0.18	
			N471306	187.00	188.00	1.00	0.21	0.17	
			N471307	188.00	189.00	1.00	0.22	0.22	
			N471308	189.00	190.00	1.00	0.23	0.24	
			N471309	190.00	191.00	1.00	0.27	0.1	
			N471310	191.00	192.02	1.02	0.55	0.12	
			N471311	191.00	192.02	1.02	0.47	0.11	
			N471312	192.02	193.00	0.98	0.11	0.06	
			N471313	193.00	194.00	1.00	0.25	0.16	
			N471314	194.00	195.00	1.00	0.11	0.14	
			N471316	195.00	196.00	1.00	0.1	0.12	
			N471317	196.00	197.00	1.00	0.09	0.19	
			N471318	197.00	198.00	1.00	0.16	0.23	
			N471319	198.00	199.00	1.00	0.15	0.23	
			N471320	199.00	200.00	1.00	0.18	0.29	
			N471321	200.00	201.00	1.00	0.09	0.23	
			N471322	201.00	202.00	1.00	0.1	0.23	
			N471323	202.00	203.00	1.00	0.12	0.18	
			N471325	203.00	204.00	1.00	0.19	0.18	
			N471326	204.00	205.00	1.00	0.04	0.06	
			N471327	205.00	206.00	1.00	0.07	0.06	
			N471328	206.00	207.00	1.00	0.08	0.09	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N471329	207.00	208.00	1.00	0.07	0.17	
		N471330	208.00	209.00	1.00	0.06	0.12	
		N471331	208.00	209.00	1.00	0.04	0.11	
		N471332	209.00	210.00	1.00	0.14	0.23	
		N471333	210.00	211.00	1.00	0.1	0.19	
		N471334	211.00	212.00	1.00	0.12	0.22	
		N471336	212.00	213.00	1.00	0.05	0.09	
		N471337	213.00	214.00	1.00	0.14	0.22	
		N471338	214.00	215.00	1.00	0.15	0.22	
		N471339	215.00	216.00	1.00	0.24	0.28	
		N471340	216.00	217.00	1.00	0.31	0.22	
		N471341	217.00	218.00	1.00	0.07	0.17	
		N471342	218.00	219.00	1.00	0.07	0.19	
		N471343	219.00	220.00	1.00	0.19	0.3	
		N471345	220.00	221.00	1.00	0.11	0.22	
		N471346	221.00	222.00	1.00	0.1	0.23	
		N471347	222.00	223.00	1.00	0.15	0.25	
		N471348	223.00	224.00	1.00	0.17	0.24	
		N471349	224.00	225.00	1.00	0.08	0.18	
		N471350	225.00	226.00	1.00	0.08	0.22	
		N471351	225.00	226.00	1.00	0.08	0.22	
		N471352	226.00	227.00	1.00	0.11	0.16	
		N471353	227.00	228.00	1.00	0.26	0.16	
		N471354	228.00	229.00	1.00	0.18	0.18	
		N471356	229.00	230.00	1.00	0.24	0.11	
		N471357	230.00	230.90	0.90	0.13	0.21	
		N471358	230.90	231.57	0.67	0.36	0.08	
		N471359	231.57	233.00	1.43	0.07	0.17	
		N471360	233.00	234.00	1.00	0.06	0.12	
		N471361	234.00	235.00	1.00	0.17	0.18	
		N471362	235.00	236.00	1.00	0.07	0.16	
		N471363	236.00	236.90	0.90	0.12	0.28	
		N471365	236.90	238.00	1.10	0.07	0.21	
		N471366	238.00	239.00	1.00	0.26	0.16	
		N471367	239.00	240.00	1.00	0.15	0.18	
		N471368	240.00	241.00	1.00	0.15	0.27	
		N471369	241.00	242.00	1.00	0.42	0.32	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N471370	242.00	243.00	1.00	0.17	0.26	
		N471371	242.00	243.00	1.00	0.14	0.27	
		N471372	243.00	244.00	1.00	0.02	0.16	
		N471373	244.00	245.00	1.00	0.07	0.21	
		N471374	245.00	246.00	1.00	0.16	0.22	
		N471376	246.00	247.00	1.00	0.11	0.16	
		N471377	247.00	248.00	1.00	0.28	0.19	
		N471378	248.00	249.00	1.00	0.13	0.23	
		N471379	249.00	250.00	1.00	0.08	0.23	
		N471380	250.00	251.00	1.00	0.08	0.25	
		N471381	251.00	252.00	1.00	0.05	0.26	
		N471382	252.00	253.00	1.00	0.02	0.16	
		N471383	253.00	254.00	1.00	0.05	0.21	
		N471385	254.00	255.00	1.00	0.11	0.29	
		N471386	255.00	256.00	1.00	0.17	0.25	
		N471387	256.00	257.00	1.00	0.11	0.23	
		N471388	257.00	258.00	1.00	0.07	0.18	
		N471389	258.00	259.00	1.00	0.19	0.22	
		N471390	259.00	260.00	1.00	0.09	0.17	
		N471391	259.00	260.00	1.00	0.09	0.17	
		N471392	260.00	261.00	1.00	0.1	0.13	
		N471393	261.00	262.00	1.00	0.12	0.17	
		N471394	262.00	263.00	1.00	0.07	0.28	
		N471396	263.00	264.50	1.50	0.08	0.19	
		N471397	264.50	266.00	1.50	0.16	0.23	
		N471398	266.00	267.50	1.50	0.2	0.2	
		N471399	267.50	269.00	1.50	0.07	0.33	
		N471400	269.00	270.50	1.50	0.07	0.23	
		N471401	270.50	272.00	1.50	0.06	0.17	
		N471402	272.00	273.50	1.50	0.05	0.18	
		N471403	273.50	275.00	1.50	0.05	0.07	
		N471405	275.00	276.00	1.00	0.22	0.24	
		N471406	276.00	277.00	1.00	0.07	0.2	
		N471407	277.00	278.00	1.00	0.07	0.22	
		N471408	278.00	279.00	1.00	0.12	0.14	
		N471409	279.00	280.50	1.50	0.11	0.14	
		N471410	280.50	282.00	1.50	0.19	0.17	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N471411	280.50	282.00	1.50	0.25	0.18	
		N471412	282.00	283.00	1.00	0.15	0.22	
		N471413	283.00	284.00	1.00	0.28	0.19	
		N471414	284.00	285.50	1.50	0.09	0.14	
		N471416	285.50	287.00	1.50	0.05	0.07	
		N471417	287.00	288.00	1.00	0.04	0.11	
		N471418	288.00	289.00	1.00	0.09	0.12	
		N471419	289.00	290.00	1.00	0.04	0.05	
		N471420	290.00	291.00	1.00	0.07	0.15	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	302.45	03/06/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545768	683014.5			Hand-held GPS	06/06/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	123.70	231.10		-50.20	Chibougamau Diamond Drilling	09/06/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	236.45	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*	30.00	Steel	☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East Pipe at depth from Northeast	77.35m to 181.60m graphite rich breccia and overprinted syenite. 181.60m to 205.95m overprinted syenite and dykes. From 61.00m to 302.45m, the assays averaged 3.08% Cg over 241.45m; within this intersection a higher grade graphite zone from 61.00m to 189.00m averaged 5.51% Cg over 128.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
165.00			240	231	-50.7	-50.7	☑	Reflex EZ	56141	
171.00			238.6	229.6	-50.8	-50.8	☑	Reflex EZ	56158	
180.00			239.5	230.5	-51.1	-51.1	☑	Reflex EZ	56049	
189.00			240.9	231.9	-50.7	-50.7	☑	Reflex EZ	56102	
192.00			239.5	230.5	-50.6	-50.6	☑	Reflex EZ	56145	
195.00			239.2	230.2	-50.6	-50.6	☑	Reflex EZ	56169	
201.00			239.4	230.4	-50.5	-50.5	☑	Reflex EZ	56158	
204.00			239.1	230.1	-50.8	-50.8	☑	Reflex EZ	56162	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
207.00			239.2	230.2	-50.8	-50.8	☑	Reflex EZ	56183	
210.00			240	231	-50.5	-50.5	☑	Reflex EZ	56149	
213.00			241.4	232.4	-50.6	-50.6	☑	Reflex EZ	56122	
216.00			239.3	230.3	-50.6	-50.6	☑	Reflex EZ	56164	
219.00			239.5	230.5	-50.5	-50.5	☑	Reflex EZ	56186	
222.00			240.6	231.6	-50.7	-50.7	☑	Reflex EZ	56138	
225.00			239.8	230.8	-50.4	-50.4	☑	Reflex EZ	56179	
228.00			239.9	230.9	-50.4	-50.4	☑	Reflex EZ	56199	
231.00			241.4	232.4	-50.3	-50.3	☑	Reflex EZ	56142	
234.00			239.3	230.3	-50.6	-50.6	☑	Reflex EZ	56215	
237.00			240.8	231.8	-50.2	-50.2	☑	Reflex EZ	56145	
240.00			240	231	-50.4	-50.4	☑	Reflex EZ	56157	
243.00			241.4	232.4	-50.4	-50.4	☑	Reflex EZ	56117	
246.00			239.6	230.6	-50.5	-50.5	☑	Reflex EZ	56182	
249.00			239.5	230.5	-50.5	-50.5	☑	Reflex EZ	56197	
252.00			241.5	232.5	-50.3	-50.3	☑	Reflex EZ	56148	
255.00			241.6	232.6	-50.5	-50.5	☑	Reflex EZ	56166	
258.00			240.3	231.3	-50.4	-50.4	☑	Reflex EZ	56206	
261.00			239.3	230.3	-50.6	-50.6	☑	Reflex EZ	56210	
264.00			241.6	232.6	-50.4	-50.4	☑	Reflex EZ	56190	
267.00			240.1	231.1	-50.5	-50.5	☑	Reflex EZ	56221	
270.00			239.9	230.9	-50.5	-50.5	☑	Reflex EZ	56220	
273.00			240.5	231.5	-50.4	-50.4	☑	Reflex EZ	56225	
276.00			242.1	233.1	-50.5	-50.5	☑	Reflex EZ	56188	
279.00			239.6	230.6	-50.6	-50.6	☑	Reflex EZ	56029	
282.00			240	231	-50.6	-50.6	☑	Reflex EZ	56223	
285.00			241.4	232.4	-50.3	-50.3	☑	Reflex EZ	56228	
288.00			242	233	-50.5	-50.5	☑	Reflex EZ	56275	
291.00			241.7	232.7	-50	-50	☑	Reflex EZ	56408	
294.00			241.7	232.7	-50.4	-50.4	☑	Reflex EZ	56392	
297.00			241.1	232.1	-50.5	-50.5	☑	Reflex EZ	56598	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	57.00	**OB Overburden** 66m of NW casing. 30m of HW casing. (unable to extract HW casing)							
57.00	64.35	**SED Sediment** Light brown tan. Very blocky and broken limestone sediments. Unconformity lower contact.	N471421	61.00	62.00	1.00	0.85	0.12	
			N471422	62.00	63.00	1.00	0.86	0.32	
			N471423	63.00	64.35	1.35	0.46	0.53	
64.35	76.67	**SYENOP Syenite with Graphitic Overprinting** Pink orange and light grey. Massive and very hard syenite gneiss with moderate graphite fracture filling. Lower contact sharp at 27 dca.	N471425	64.35	65.00	0.65	0.14	0.06	
			N471426	65.00	66.00	1.00	0.26	0.04	2.54
			N471427	66.00	67.00	1.00	0.14	0.03	2.56
			N471428	67.00	68.00	1.00	0.14	0.02	2.54
			N471429	68.00	69.00	1.00	0.06	0.03	2.55
			N471431	69.00	70.00	1.00	0.16	0.05	
			N471430	69.00	70.00	1.00	0.15	0.04	2.56
			N471432	70.00	71.00	1.00	0.23	0.04	
			N471433	71.00	72.00	1.00	0.35	0.14	
			N471434	72.00	73.00	1.00	0.49	0.07	
			N471436	73.00	74.00	1.00	0.72	0.05	
			N471437	74.00	75.00	1.00	1.23	0.03	
			N471438	75.00	76.00	1.00	0.79	0.05	
			N471439	76.00	76.67	0.67	0.44	0.03	
76.67	77.35	**SYENOP Syenite with Graphitic Overprinting** Emerald green malachite shear zone. Moderately hard. Lower contact faulted at 125 dca.	N471440	76.67	77.35	0.68	0.45	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
77.35	102.20	**GRPBX Graphitic Breccia** Grey to dark grey with orange syenite gneiss fragments. Fragments range from <1cm to 30cm and are angular to subrounded. Well mineralized graphite matrix. Local malachite alteration. 77.35 to 77.40 Fault zone at 125 dca. 88.92 3cm malachite fault gouge at 90 dca. Lower contact irregular at 20 dca.	N471441	77.35	78.00	0.65	6.6	0.02	
			N471442	78.00	79.00	1.00	6.89	0.05	
			N471443	79.00	80.00	1.00	13	0.03	
			N471445	80.00	81.00	1.00	6.63	0.03	
			N471446	81.00	82.00	1.00	4.69	0.03	2.57
			N471447	82.00	83.00	1.00	8.43	0.02	2.48
			N471448	83.00	84.00	1.00	7.53	0.02	2.51
			N471449	84.00	85.00	1.00	5.23	0.02	2.54
			N471450	85.00	86.00	1.00	4.84	0.02	2.54
			N471451	85.00	86.00	1.00	4.9	0.02	
			N471452	86.00	87.00	1.00	6.63	0.02	
			N471453	87.00	88.00	1.00	4.34	0.03	
			N471454	88.00	89.00	1.00	5.92	0.03	
			N471456	89.00	90.00	1.00	4.2	0.09	
			N471457	90.00	91.00	1.00	4.66	0.04	
			N471458	91.00	92.00	1.00	11.1	0.03	
			N471459	92.00	93.00	1.00	9.06	0.03	
			N471460	93.00	94.00	1.00	11.8	0.02	
			N471461	94.00	95.00	1.00	3.57	0.03	
			N471462	95.00	96.00	1.00	7.15	0.01	
			N471463	96.00	97.00	1.00	9.83	0.02	
			N471465	97.00	98.00	1.00	8.99	0.02	
			N471466	98.00	99.00	1.00	11.9	0.02	
			N471467	99.00	100.00	1.00	8.33	0.04	
			N471468	100.00	101.00	1.00	10.6	0.04	
			N471469	101.00	102.20	1.20	5.27	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
102.20	103.75	**FD Felsic Dyke** Light green malachite alteration. Fine grained and massive dyke. Very hard. Lower contact irregular at 20 dca.	N471471	102.20	103.00	0.80	0.11	0.1	
			N471470	102.20	103.00	0.80	0.13	0.11	
			N471472	103.00	103.75	0.75	0.02	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
103.75	134.30	**GRPBX Graphitic Breccia** Grey to dark grey breccia with well mineralized graphite matrix. Lower contact is very gradational.	N471473	103.75	105.00	1.25	7.41	0.03	
			N471474	105.00	106.00	1.00	5.28	0.06	
			N471476	106.00	107.00	1.00	4.51	0.06	
			N471477	107.00	108.00	1.00	6.61	0.06	
			N471478	108.00	109.00	1.00	8.5	0.08	
			N471479	109.00	110.00	1.00	7.92	0.12	
			N471480	110.00	111.00	1.00	9.31	0.09	
			N471481	111.00	112.00	1.00	12.8	0.06	
			N471482	112.00	113.00	1.00	10.5	0.08	
			N471483	113.00	114.00	1.00	9.81	0.07	
			N471485	114.00	115.00	1.00	6.71	0.07	
			N471486	115.00	116.00	1.00	5.86	0.09	
			N471487	116.00	117.00	1.00	6.77	0.11	
			N471488	117.00	118.00	1.00	9.06	0.11	
			N471489	118.00	119.00	1.00	9.78	0.18	
			N471490	119.00	120.00	1.00	10.8	0.19	
			N471491	119.00	120.00	1.00	11.2	0.17	
			N471492	120.00	121.00	1.00	8.34	0.11	
			N471493	121.00	122.00	1.00	8.31	0.15	
			N471494	122.00	123.00	1.00	3.85	0.15	
			N471496	123.00	124.00	1.00	6.69	0.14	
			N471497	124.00	125.00	1.00	6.87	0.14	
			N471498	125.00	126.00	1.00	6.9	0.12	
			N471499	126.00	127.00	1.00	3.54	0.19	
			N471500	127.00	128.00	1.00	4.77	0.11	
			N471501	128.00	129.00	1.00	5.52	0.14	
			N471502	129.00	130.00	1.00	1.03	0.2	
			N471503	130.00	131.00	1.00	5.58	0.18	
			N471505	131.00	132.00	1.00	5.27	0.13	
			N471506	132.00	133.00	1.00	5.96	0.11	
			N471507	133.00	134.30	1.30	8.72	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
134.30	136.46	**SYENOP Syenite with Graphitic Overprinting** Grey. Massive and very hard. Unit is moderately graphitic overprinted and is part of the breccia pipe but lacks the actual breccia and graphite matrix. Lower contact gradational.	N471508	134.30	135.50	1.20	1.58	0.22	
			N471509	135.50	136.46	0.96	1.5	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
136.46	172.73	**GRPBX Graphitic Breccia** Grey to dark grey breccia with well mineralized graphite matrix. 158.36 to 159.47 Fault zone. Upper contact gouge at 20 dca lower contact gouge at 23 dca.	N471511	136.46	137.00	0.54	15.2	0.2	
			N471510	136.46	137.00	0.54	15.2	0.23	
			N471512	137.00	138.00	1.00	7.72	0.16	
			N471513	138.00	139.00	1.00	6.84	0.14	
			N471514	139.00	140.00	1.00	9.66	0.17	
			N471516	140.00	141.00	1.00	7.87	0.26	
			N471517	141.00	142.00	1.00	11	0.19	
			N471518	142.00	143.00	1.00	5.13	0.17	
			N471519	143.00	144.00	1.00	6.74	0.26	
			N471520	144.00	145.00	1.00	4.64	0.17	
			N471521	145.00	146.00	1.00	4.56	0.2	
			N471522	146.00	147.00	1.00	4.36	0.24	
			N471523	147.00	148.00	1.00	4.36	0.25	
			N471525	148.00	149.00	1.00	4.36	0.25	
			N471526	149.00	150.00	1.00	5.68	0.21	
			N471527	150.00	151.00	1.00	9.83	0.17	
			N471528	151.00	152.00	1.00	4.24	0.25	
			N471529	152.00	153.00	1.00	11	0.5	
			N471530	153.00	154.00	1.00	8.13	0.17	
			N471531	153.00	154.00	1.00	6.44	0.21	
			N471532	154.00	155.00	1.00	7.36	0.28	
			N471533	155.00	156.00	1.00	0.74	0.29	
			N471534	156.00	157.00	1.00	0.53	0.25	
			N471536	157.00	158.00	1.00	1.93	0.1	
			N471537	158.00	159.00	1.00	4.38	0.22	
			N471538	159.00	160.00	1.00	7.71	0.22	
			N471539	160.00	161.00	1.00	9.03	0.23	
			N471540	161.00	162.00	1.00	4.26	0.25	
			N471541	162.00	163.00	1.00	8.07	0.28	
			N471542	163.00	164.00	1.00	6.6	0.22	
			N471543	164.00	165.00	1.00	5.83	0.31	
			N471545	165.00	166.00	1.00	9.43	0.22	
			N471546	166.00	167.00	1.00	8.87	0.29	
			N471547	167.00	168.00	1.00	3.75	0.24	
			N471548	168.00	169.00	1.00	4.78	0.3	
			N471549	169.00	170.00	1.00	6.62	0.21	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
			N471550	170.00	171.00	1.00	10.8	0.2	
			N471551	170.00	171.00	1.00	10.3	0.21	
			N471552	171.00	172.00	1.00	4.46	0.34	
			N471553	172.00	172.73	0.73	8.47	0.24	
172.73	175.38	**IDOP Intermediate Dyke with Graphitic Overprinting** Light green malachite altered intermediate intrusive dyke. Massive with malachite and graphite fracture filling. 172.73 to 174 unit is extremely fractured and faulted at 53 dca. Lower contact at 25 dca.	N471554	172.73	174.00	1.27	0.12	0.08	
			N471556	174.00	175.38	1.38	0.1	0.08	
175.38	181.60	**GRPBX Graphitic Breccia** Dark grey very well mineralized graphite breccia. 175.38 to 176.00 moderate graphite overprinted syenite gneiss contacting with breccia at 43 dca. 177.62 crenulated biotite and chlorite at 125 fold axis. 178.47 to 178.68 biotite and chlorite alteration at 43 dca. 178.90 to 179.10 biotite and chlorite alteration. Lower contact at 49 dca.	N471557	175.38	176.00	0.62	1.59	0.18	
			N471558	176.00	177.00	1.00	10.6	0.15	
			N471559	177.00	178.00	1.00	7.32	0.19	
			N471560	178.00	179.00	1.00	6.34	0.16	
			N471561	179.00	180.00	1.00	10	0.17	
			N471562	180.00	181.00	1.00	8.74	0.27	
			N471563	181.00	181.60	0.60	11.3	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
181.60	192.93	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Weak graphite fracture filling and overprinting. Lower contact at 75 dca.	N471565	181.60	183.00	1.40	1.51	0.32	
			N471566	183.00	184.00	1.00	1.1	0.32	
			N471567	184.00	185.00	1.00	0.33	0.3	
			N471568	185.00	186.00	1.00	0.09	0.28	
			N471569	186.00	187.00	1.00	0.28	0.27	
			N471571	187.00	188.00	1.00	0.49	0.34	
			N471570	187.00	188.00	1.00	0.47	0.36	
			N471572	188.00	189.00	1.00	0.38	0.3	
			N471573	189.00	190.00	1.00	0.07	0.28	
			N471574	190.00	191.00	1.00	0.43	0.29	
			N471576	191.00	192.00	1.00	0.14	0.26	
			N471577	192.00	192.93	0.93	0.25	0.32	
192.93	194.75	**IDOP Intermediate Dyke with Graphitic Overprinting** Dark green to dark grey. Massive and very hard. Weak graphite fracture filling. Lower contact at 75 dca.	N471578	192.93	194.00	1.07	0.35	0.19	
			N471579	194.00	194.75	0.75	0.24	0.1	
194.75	203.83	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard syenite gneiss. 202.08 to 202.73 Intermediate to felsic dyke upper contact at 39 dca lower contact at 25 dca. Lower contact at 47 dca.	N471580	194.75	196.00	1.25	0.24	0.31	
			N471581	196.00	197.00	1.00	0.31	0.24	
			N471582	197.00	198.00	1.00	0.11	0.27	
			N471583	198.00	199.00	1.00	0.05	0.2	
			N471585	199.00	200.00	1.00	0.05	0.22	
			N471586	200.00	201.00	1.00	0.11	0.28	
			N471587	201.00	202.08	1.08	0.1	0.24	
			N471588	202.08	202.73	0.65	0.16	0.19	
			N471589	202.73	203.83	1.10	0.19	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
203.83	205.95	**FDOP Felsic Dyke with Graphitic Overprinting** Fine grained and massive. Dark grey with minor stretched plagioclase phenocrysts. Minor fracture filling graphite. 204.95 to 205.48 Syenite gneiss upper contact 27 dca, lower contact at 15 dca. Lower contact at 25 dca.	N471591	203.83	204.95	1.12	0.25	0.18	
			N471590	203.83	204.95	1.12	0.22	0.18	
			N471592	204.95	205.48	0.53	0.63	0.27	
			N471593	205.48	205.95	0.47	0.19	0.19	
205.95	207.44	**SYEN Syenite** Grey and orange. Massive and very hard syenite gneiss. Lower contact at 40 dca.	N471594	205.95	206.70	0.75	0.11	0.28	
			N471596	206.70	207.44	0.74	0.1	0.35	
207.44	211.00	**FD Felsic Dyke** Fine grained and massive. Dark grey with minor stretched plagioclase phenocrysts. Lower contact gradational.	N471597	207.44	208.00	0.56	0.18	0.22	
			N471598	208.00	209.00	1.00	0.15	0.18	
			N471599	209.00	210.00	1.00	0.46	0.15	
			N471600	210.00	211.00	1.00	0.41	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
211.00 -	219.84	**SYENOP Syenite with Graphitic Overprinting** Grey and orange. Massive and very hard syenite gneiss. Minor fracture filling graphite. 214.37 to 214.44 Granite dyke at 29 dca. 214.59 to 214.93 granite dyke, upper contact at 50 dca, lower contact at 135 dca. 216.64 to 217.19 intermediate dyke at 45 dca. 218.77 to 219.05 felsic dyke at 25 dca. Lower contact at 15 dca.	N471601	211.00	212.00	1.00	0.59	0.08	
			N471602	212.00	213.00	1.00	0.37	0.08	
			N471603	213.00	214.00	1.00	0.45	0.21	
			N471605	214.00	215.00	1.00	0.35	0.21	
			N471606	215.00	216.00	1.00	0.75	0.32	
			N471607	216.00	217.00	1.00	0.36	0.24	
			N471608	217.00	218.00	1.00	0.76	0.32	
			N471609	218.00	219.00	1.00	0.49	0.29	
			N471611	219.00	219.84	0.84	1.64	0.28	
			N471610	219.00	219.84	0.84	1.7	0.3	
219.84 -	229.29	**FDOP Felsic Dyke with Graphitic Overprinting** Fine grained and massive. Dark grey with minor stretched plagioclase phenocrysts. Minor fracture filling graphite. 220.64 to 221.13 syenite gneiss at 22 dca. 221.65 to 222.18 syenite gneiss. Upper contact at 40dca, lower contact at 120dca. 224.94 to 225.07 granite dyke at 50 dca. Lower contact at 27 dca.	N471612	219.84	221.00	1.16	0.51	0.24	
			N471613	221.00	222.00	1.00	0.46	0.16	
			N471614	222.00	223.00	1.00	0.22	0.18	
			N471616	223.00	224.00	1.00	0.2	0.2	2.7
			N471617	224.00	225.07	1.07	0.13	0.19	2.62
			N471618	225.07	226.00	0.93	0.52	0.14	2.69
			N471619	226.00	227.00	1.00	0.38	0.13	2.68
			N471620	227.00	228.00	1.00	0.27	0.06	2.68
			N471621	228.00	229.29	1.29	0.82	0.14	
229.29 -	230.74	**SYEN Syenite** Grey and orange. Massive and very hard syenite gneiss. Lower contact at 23 dca.	N471622	229.29	230.00	0.71	0.14	0.17	
			N471623	230.00	230.74	0.74	0.13	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
230.74	249.62	**FDOP Felsic Dyke with Graphitic Overprinting** Fine grained and massive. Dark grey with minor stretched plagioclase phenocrysts. Minor fracture filling graphite. 234.04 to 234.22 Intermediate dyke at 37dca upper contact and 45dca lower contact. 237.46 to 237.88 granite dyke at 54 dca. 249.15 to 249.28 Biotite chlorite alteration dyke at 17 dca. Lower contact runs at 0 degrees from 249.62 to 250.75m.	N471625	230.74	232.00	1.26	0.14	0.16	
			N471626	232.00	233.00	1.00	0.15	0.16	
			N471627	233.00	234.00	1.00	0.14	0.14	
			N471628	234.00	235.00	1.00	0.14	0.11	
			N471629	235.00	236.00	1.00	0.25	0.09	
			N471630	236.00	237.00	1.00	0.12	0.11	
			N471631	236.00	237.00	1.00	0.1	0.12	
			N471632	237.00	238.00	1.00	0.1	0.35	
			N471633	238.00	239.00	1.00	0.15	0.15	
			N471634	239.00	240.00	1.00	0.16	0.13	
			N471636	240.00	241.00	1.00	0.18	0.1	
			N471637	241.00	242.00	1.00	0.24	0.29	
			N471638	242.00	243.00	1.00	0.29	0.13	
			N471639	243.00	244.00	1.00	0.64	0.1	
			N471640	244.00	245.00	1.00	0.35	0.12	
			N471641	245.00	246.00	1.00	0.2	0.14	
			N471642	246.00	247.00	1.00	0.38	0.12	
			N471643	247.00	248.00	1.00	0.45	0.1	
			N471645	248.00	249.00	1.00	0.19	0.14	
			N471646	249.00	249.62	0.62	0.21	0.11	
249.62	254.83	**SYEN Syenite** Grey and orange. Massive and very hard syenite gneiss. 253.00 to 253.50 Felsic dyke 10dca upper contact, 20dca lower contact. Lower contact at 25 dca.	N471647	249.62	250.00	0.38	0.54	0.18	
			N471648	250.00	251.00	1.00	0.48	0.35	
			N471649	251.00	252.00	1.00	0.6	0.28	
			N471651	252.00	253.00	1.00	0.24	0.21	
			N471650	252.00	253.00	1.00	0.28	0.21	
			N471652	253.00	254.00	1.00	0.31	0.19	
			N471653	254.00	254.83	0.83	0.19	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
254.83	261.03	**FDOP Felsic Dyke with Graphitic Overprinting** Fine grained and massive. Dark grey with minor stretched plagioclase phenocrysts. Minor fracture filling graphite. Lower contact at 35 dca.	N471654	254.83	256.00	1.17	0.13	0.22	
			N471656	256.00	257.00	1.00	0.18	0.23	
			N471657	257.00	258.00	1.00	0.23	0.18	
			N471658	258.00	259.00	1.00	0.44	0.16	
			N471659	259.00	260.00	1.00	0.87	0.16	
			N471660	260.00	261.03	1.03	0.19	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
261.03	302.45	**SYENOP Syenite with Graphitic Overprinting** Grey and orange. Massive and very hard syenite gneiss. Minor fracture filling graphite. 264.19 to 264.48 Fault zone at 45 dca. 270.73 to 270.14 Felsic dyke at 60 dca upper contact, 40 dca lower contact. 274.20 to 274.88 Felsic dyke at 39 dca. 275.66 to 275.76 Fault zone at 55 dca. 288.14 to 288.20 chill margin at 61 dca. 288.20 to 288.55 Felsic dyke at 43 dca. 296.63 to 297.00 Fault zone at 43 dca. 301.87 to 302.45 Mafic dyke at 90 upper contact. EOH 302.45m		N471661	261.03	262.00	0.97	0.49	0.37	
			N471662	262.00	263.00	1.00	0.33	0.27	
			N471663	263.00	264.00	1.00	0.26	0.3	
			N471665	264.00	265.00	1.00	0.29	0.26	
			N471666	265.00	266.00	1.00	0.26	0.27	
			N471667	266.00	267.00	1.00	0.82	0.12	
			N471668	267.00	268.00	1.00	1.28	0.41	
			N471669	268.00	269.00	1.00	0.54	0.38	
			N471670	269.00	270.00	1.00	0.16	0.23	
			N471671	269.00	270.00	1.00	0.13	0.23	
			N471672	270.00	271.00	1.00	0.59	0.36	
			N471673	271.00	272.00	1.00	0.84	0.4	
			N471674	272.00	273.00	1.00	1.17	0.41	
			N471676	273.00	274.20	1.20	0.55	0.45	
			N471677	274.20	274.86	0.66	0.02	0.06	
			N471678	274.86	276.00	1.14	0.27	0.26	
			N471679	276.00	277.00	1.00	0.08	0.3	
			N471680	277.00	278.50	1.50	0.09	0.23	
			N471681	278.50	280.00	1.50	0.08	0.28	
			N471682	280.00	281.50	1.50	0.09	0.22	
			N471683	281.50	283.00	1.50	0.13	0.28	
			N471685	283.00	284.50	1.50	0.25	0.3	
			N471686	284.50	286.00	1.50	0.22	0.27	
			N471687	286.00	287.50	1.50	0.15	0.29	
			N471688	287.50	289.00	1.50	0.39	0.17	
			N471689	289.00	290.50	1.50	0.54	0.3	
			N471690	290.50	292.00	1.50	0.32	0.36	
			N471691	290.50	292.00	1.50	0.33	0.34	
			N471692	292.00	293.50	1.50	0.3	0.27	
			N471693	293.50	295.00	1.50	0.1	0.32	
			N471694	295.00	296.50	1.50	0.35	0.3	
			N471696	296.50	298.00	1.50	0.63	0.3	
			N471697	298.00	299.50	1.50	0.26	0.28	
			N471698	299.50	301.00	1.50	0.32	0.15	
			N471699	301.00	301.87	0.87	0.29	0.06	
			N471700	301.87	302.45	0.58	0.28	0.08	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	291.00	06/06/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545675.2	682888.9			Reflex APS		10/06/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	123.90	47.30		-51.20	Chibougamau Diamond Drilling		11/06/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	234	Casing Pulled	Casing (1)	56.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test East pipe at depth from the Southwest	This hole intersected 102.10m of graphite breccia from 90.00m to 192.10m. 192.10m to 291.00m overprinted syenite and mafic dykes. The assays from 63.00m to 291.00m averaged 3.13% Cg over 228.00m; within this intersection a higher grade graphite zone from 89.00m to 229.55m averaged 4.77% Cg over 140.55m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
150.00			54.8	45.8	-52.3	-52.3	☑	Reflex EZ	56291	
153.00			55	46	-52.5	-52.5	☑	Reflex EZ	56309	
156.00			54.8	45.8	-52.4	-52.4	☑	Reflex EZ	56323	
159.00			55	46	-52.2	-52.2	☑	Reflex EZ	56311	
162.00			54.8	45.8	-52.3	-52.3	☑	Reflex EZ	56304	
165.00			55.1	46.1	-52.1	-52.1	☑	Reflex EZ	56330	
168.00			55.3	46.3	-52.2	-52.2	☑	Reflex EZ	56289	
171.00			54.8	45.8	-52.4	-52.4	☑	Reflex EZ	56309	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
174.00			54.6	45.6	-52.3	-52.3	☑	Reflex EZ	56310	
177.00			55.4	46.4	-52.3	-52.3	☑	Reflex EZ	56051	
180.00			54.8	45.8	-52.4	-52.4	☑	Reflex EZ	56296	
183.00			55.3	46.3	-52.4	-52.4	☑	Reflex EZ	56287	
189.00			55.2	46.2	-52.2	-52.2	☑	Reflex EZ	56312	
192.00			54.7	45.7	-52.2	-52.2	☑	Reflex EZ	56308	
195.00			54.9	45.9	-52.3	-52.3	☑	Reflex EZ	56324	
198.00			55.1	46.1	-52.2	-52.2	☑	Reflex EZ	56321	
201.00			55.1	46.1	-52.6	-52.6	☑	Reflex EZ	56275	
204.00			55	46	-52.2	-52.2	☑	Reflex EZ	56333	
207.00			55.3	46.3	-52.5	-52.5	☑	Reflex EZ	56288	
210.00			55.4	46.4	-52.5	-52.5	☑	Reflex EZ	56287	
213.00			55.2	46.2	-52.5	-52.5	☑	Reflex EZ	56286	
216.00			55.2	46.2	-52.4	-52.4	☑	Reflex EZ	56260	
219.00			55.5	46.5	-52.4	-52.4	☑	Reflex EZ	56278	
222.00			55.3	46.3	-52.4	-52.4	☑	Reflex EZ	56305	
225.00			55	46	-52.2	-52.2	☑	Reflex EZ	56293	
228.00			55.5	46.5	-52.2	-52.2	☑	Reflex EZ	56339	
231.00			55.4	46.4	-52.3	-52.3	☑	Reflex EZ	56276	
234.00			55.3	46.3	-52	-52	☑	Reflex EZ	56316	
237.00			55.4	46.4	-52	-52	☑	Reflex EZ	56232	
240.00			55	46	-52.1	-52.1	☑	Reflex EZ	56321	
243.00			55	46	-52.2	-52.2	☑	Reflex EZ	56279	
246.00			55.4	46.4	-52.2	-52.2	☑	Reflex EZ	56293	
249.00			54.9	45.9	-52	-52	☑	Reflex EZ	56281	
252.00			55.4	46.4	-52.2	-52.2	☑	Reflex EZ	56249	
255.00			55.2	46.2	-52.2	-52.2	☑	Reflex EZ	56292	
258.00			55.8	46.8	-52	-52	☑	Reflex EZ	56302	
261.00			55.8	46.8	-52	-52	☑	Reflex EZ	56280	
264.00			55.7	46.7	-52.1	-52.1	☑	Reflex EZ	56286	
267.00			55.9	46.9	-52	-52	☑	Reflex EZ	56373	
270.00			55.8	46.8	-52.2	-52.2	☑	Reflex EZ	56320	
273.00			55.6	46.6	-52.1	-52.1	☑	Reflex EZ	56297	
276.00			55.7	46.7	-52.1	-52.1	☑	Reflex EZ	56312	
279.00			56.1	47.1	-51.9	-51.9	☑	Reflex EZ	56317	
282.00			55.5	46.5	-51.9	-51.9	☑	Reflex EZ	56286	
285.00			55.6	46.6	-51.9	-51.9	☑	Reflex EZ	56354	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
288.00			55.4	46.4	-51.9	-51.9	☑	Reflex EZ	56289	
291.00			55.3	46.3	-51.9	-51.9	☑	Reflex EZ	56309	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	55.93	**OB Overburden** 45m HW casing; 60m NW casing. 54.6-55.93 mixture of limestone, granite and syenite boulders. Grounded core 5-15cm sections.							
55.93	59.00	**SED Sediment** Light brown tan to beige, limestone plus greenish-grey siltstone. Vuggy core in places.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
59.00	90.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, syenite with weak graphite overprint. "Paleo" weathering from 59 to 61.5m; blocky, crumbly core. Dark green, malachite stained dykelets at 61 and 69m. Strong paleo-weathering from 81 to 83.6m. Reddish-brown, fractured core, green malachite along fracture faces and hematite. 5cm fault gouge at 81m. 10cm dark green, soft malachite stained dyke at 87m. Broken fractured core at lower contact.	N471701	63.00	64.00	1.00	0.16	0.06	
			N471702	64.00	65.00	1.00	0.44	0.02	
			N471703	65.00	66.00	1.00	0.44	0.03	
			N471705	66.00	67.00	1.00	0.23	0.05	
			N471706	67.00	68.00	1.00	0.27	0.05	
			N471707	68.00	69.00	1.00	0.18	0.06	
			N471708	69.00	70.00	1.00	0.22	0.03	
			N471709	70.00	71.00	1.00	0.17	0.05	
			N471710	71.00	72.00	1.00	0.23	0.13	
			N471712	72.00	73.00	1.00	0.08	0.13	
			N471713	73.00	74.00	1.00	0.08	0.23	
			N471714	74.00	75.00	1.00	0.22	0.13	
			N471716	75.00	76.00	1.00	0.17	0.07	
			N471717	76.00	77.00	1.00	0.27	0.1	
			N471718	77.00	78.00	1.00	0.11	0.24	
			N471719	78.00	79.00	1.00	0.39	0.09	
			N471720	79.00	80.00	1.00	0.33	0.09	
			N471721	80.00	81.00	1.00	0.65	0.1	
			N471722	81.00	82.00	1.00	1.16	0.02	
			N471723	82.00	83.00	1.00	0.48	0.02	
			N471725	83.00	84.00	1.00	0.56	0.15	2.51
			N471726	84.00	85.00	1.00	0.46	0.07	2.54
			N471727	85.00	86.00	1.00	0.61	0.09	2.61
			N471728	86.00	87.00	1.00	0.97	0.05	2.56
			N471729	87.00	88.00	1.00	0.57	0.1	2.59
			N471730	88.00	89.00	1.00	0.69	0.06	
			N471732	89.00	90.00	1.00	1.08	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
90.00	144.20	**GRPBX Graphitic Breccia** Dark grey with light pink sections, medium grained syenite. Moderate to good graphite content as fracture filling veinlets and graphite flooding in the matrix. Sub-angular to sub-rounded, light pink syenite fragments 5-50cm from 106 to 121m. Good graphite in the matrix from 125-138m. Lower contact sharp at 55 dca.	N471733	90.00	91.00	1.00	9.86	0.02	
			N471734	91.00	92.00	1.00	1.74	0.04	
			N471736	92.00	93.00	1.00	5.84	0.03	
			N471737	93.00	94.00	1.00	3.17	0.04	
			N471738	94.00	95.00	1.00	3.82	0.02	
			N471739	95.00	96.00	1.00	4.51	0.03	
			N471740	96.00	97.00	1.00	4.89	0.05	
			N471741	97.00	98.00	1.00	9.69	0.06	
			N471742	98.00	99.00	1.00	0.59	0.08	
			N471743	99.00	100.00	1.00	6.93	0.04	
			N471745	100.00	101.00	1.00	11.1	0.04	
			N471746	101.00	102.00	1.00	2.21	0.05	
			N471747	102.00	103.00	1.00	10.2	0.03	
			N471748	103.00	104.00	1.00	4.25	0.03	
			N471749	104.00	105.00	1.00	7.15	0.03	
			N471750	105.00	106.00	1.00	2.43	0.03	
			N471752	106.00	107.00	1.00	6.14	0.05	
			N471753	107.00	108.00	1.00	2.16	0.13	
			N471754	108.00	109.00	1.00	2.11	0.07	
			N471756	109.00	110.00	1.00	6.53	0.06	
			N471757	110.00	111.00	1.00	4.15	0.05	
			N471758	111.00	112.00	1.00	3.96	0.07	
			N471759	112.00	113.00	1.00	5.09	0.07	
			N471760	113.00	114.00	1.00	4.96	0.07	
			N471761	114.00	115.00	1.00	7.07	0.07	
			N471762	115.00	116.00	1.00	7.1	0.07	
			N471763	116.00	117.00	1.00	5.96	0.16	
			N471765	117.00	118.00	1.00	6.35	0.1	
			N471766	118.00	119.00	1.00	2.3	0.07	
			N471767	119.00	120.00	1.00	2.86	0.07	
			N471768	120.00	121.00	1.00	6.89	0.13	
			N471769	121.00	122.00	1.00	5.18	0.11	
			N471770	122.00	123.00	1.00	8.89	0.17	
			N471772	123.00	124.00	1.00	5.63	0.12	
			N471773	124.00	125.00	1.00	3.64	0.17	
			N471774	125.00	126.00	1.00	9.7	0.16	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
			N471776	126.00	127.00	1.00	9.25	0.13	
			N471777	127.00	128.00	1.00	9.18	0.18	
			N471778	128.00	129.00	1.00	6.39	0.19	
			N471779	129.00	130.00	1.00	9.05	0.18	
			N471780	130.00	131.00	1.00	7.8	0.21	
			N471781	131.00	132.00	1.00	10.2	0.21	
			N471782	132.00	133.00	1.00	9.8	0.15	
			N471783	133.00	134.00	1.00	9.69	0.12	
			N471785	134.00	135.00	1.00	7.17	0.2	
			N471786	135.00	136.00	1.00	6.32	0.12	
			N471787	136.00	137.00	1.00	10.2	0.14	
			N471788	137.00	138.00	1.00	6.57	0.14	
			N471789	138.00	139.00	1.00	7.56	0.13	
			N471790	139.00	140.00	1.00	4.75	0.05	
			N471792	140.00	141.00	1.00	2.98	0.13	
			N471793	141.00	142.00	1.00	4.81	0.2	
			N471794	142.00	143.10	1.10	8.7	0.23	
			N471796	143.10	144.20	1.10	10.8	0.15	
144.20	147.35	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey with brownish-pink sections syenite. Weak gneissic banding. Very weak graphite as fracture filling veinlets.	N471797	144.20	145.20	1.00	0.24	0.06	
			N471798	145.20	146.20	1.00	0.49	0.06	
			N471799	146.20	147.35	1.15	0.25	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
147.35 -	166.05	**GRPBX Graphitic Breccia** Medium to dark grey brecciate syenite with good graphite content as fracture filling veinlets and graphite flooding in the matrix. Good graphite from 150 to 155 and from 159 to 164.5.	N471800	147.35	148.20	0.85	5.2	0.12	
			N471801	148.20	149.10	0.90	6.69	0.13	
			N471802	149.10	150.00	0.90	4.52	0.17	
			N471803	150.00	151.00	1.00	10.4	0.28	
			N471805	151.00	152.00	1.00	5.86	0.23	
			N471806	152.00	153.00	1.00	8.1	0.3	2.62
			N471807	153.00	154.00	1.00	6.38	0.21	2.62
			N471808	154.00	155.00	1.00	13.4	0.55	2.56
			N471809	155.00	156.00	1.00	2.38	0.26	2.6
			N471810	156.00	157.00	1.00	6.3	0.16	2.54
			N471812	157.00	158.00	1.00	7.84	0.18	
			N471813	158.00	159.00	1.00	5.36	0.34	
			N471814	159.00	160.00	1.00	4.46	0.24	
			N471816	160.00	161.00	1.00	7.06	0.22	
			N471817	161.00	162.00	1.00	11.2	0.24	
			N471818	162.00	163.00	1.00	8.81	0.18	
			N471819	163.00	164.00	1.00	6.31	0.24	
			N471820	164.00	165.00	1.00	7.16	0.3	
			N471821	165.00	166.05	1.05	11.7	0.3	
166.05 -	169.17	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish grey , medium grained massive syenite. Weak graphite as fracture filling veinlets at 168.5m. Both contacts sharp at 70 dca.	N471822	166.05	167.00	0.95	1.36	0.2	
			N471823	167.00	168.00	1.00	1.11	0.29	
			N471825	168.00	169.17	1.17	2.09	0.32	
169.17 -	171.50	**GRPBX Graphitic Breccia** Graphitic breccia, dark grey brecciated syenite, good graphite in the matrix. Fine grained, greenish-grey mafic dyke from 170.3 to 170.65.	N471826	169.17	170.30	1.13	14.2	0.19	
			N471827	170.30	171.50	1.20	6.36	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
171.50	173.60	**MD Mafic Dyke** Greenish-grey, fine grained, massive, mafic to intermediate dyke. Upper contact sharp at 40 dca. Lower contact sharp at 25 dca. No visible graphite.	N471828	171.50	172.50	1.00	0.07	0.06	
			N471829	172.50	173.60	1.10	0.03	0.04	
173.60	192.10	**GRPBX Graphitic Breccia** Medium to dark grey, brecciated, medium grained syenite. Good graphite in the matrix and as fracture filling veinlets and graphitic flooding from upper contact to 185m. 176-176.35 green, biotite rich, soft, massive mafic dyke. Upper contact at 45 dca, lower contact at 70 dca. Odd carbonate and hematite veinlets along fractures at 183.6. Lower contact of the breccia sharp at 45 dca.	N471830	173.60	174.80	1.20	12.6	0.26	
			N471832	174.80	176.00	1.20	9.54	0.1	
			N471833	176.00	177.00	1.00	5.87	0.14	
			N471834	177.00	178.00	1.00	8.12	0.23	
			N471836	178.00	179.00	1.00	6.79	0.28	
			N471837	179.00	180.00	1.00	10.2	0.23	
			N471838	180.00	181.00	1.00	5.86	0.29	
			N471839	181.00	182.00	1.00	8.7	0.21	
			N471840	182.00	183.00	1.00	8.34	0.31	
			N471841	183.00	184.00	1.00	17.9	0.13	
			N471842	184.00	185.00	1.00	11.9	0.39	
			N471843	185.00	186.00	1.00	4.64	0.27	
			N471845	186.00	187.00	1.00	3.42	0.27	
			N471846	187.00	188.00	1.00	6.46	0.29	
			N471847	188.00	189.00	1.00	3.56	0.31	
			N471848	189.00	190.00	1.00	5.88	0.29	
			N471849	190.00	191.00	1.00	7.33	0.27	
			N471850	191.00	192.10	1.10	4.01	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.10	225.50	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey to light pink massive syenite. Weak gneissic banding. Weak graphite content as fracture filling veinlets at 202.1 to 202.4 and from 207 to 207.2. Trace sulphides as pyrite veinlets at 207.	N471852	192.10	193.00	0.90	0.66	0.31	
			N471853	193.00	194.00	1.00	0.56	0.37	
			N471854	194.00	195.00	1.00	0.28	0.32	
			N471856	195.00	196.00	1.00	0.62	0.26	
			N471857	196.00	197.00	1.00	0.12	0.31	
			N471858	197.00	198.00	1.00	0.16	0.28	
			N471859	198.00	199.00	1.00	0.35	0.31	
			N471860	199.00	200.00	1.00	0.14	0.32	
			N471861	200.00	201.00	1.00	0.11	0.24	
			N471862	201.00	202.00	1.00	0.18	0.34	
			N471863	202.00	203.00	1.00	1.33	0.39	
			N471865	203.00	204.00	1.00	0.17	0.32	
			N471866	204.00	205.00	1.00	0.11	0.25	
			N471867	205.00	206.00	1.00	0.1	0.29	
			N471868	206.00	207.00	1.00	0.52	0.32	
			N471869	207.00	208.00	1.00	0.8	0.85	
			N471870	208.00	209.00	1.00	0.05	0.14	
			N471872	209.00	210.00	1.00	0.04	0.14	
			N471873	210.00	211.00	1.00	0.08	0.24	
			N471874	211.00	212.00	1.00	0.06	0.15	
			N471876	212.00	213.00	1.00	0.09	0.35	
			N471877	213.00	214.00	1.00	0.04	0.13	
			N471878	214.00	215.00	1.00	0.06	0.11	
			N471879	215.00	216.00	1.00	0.04	0.18	
			N471880	216.00	217.00	1.00	0.12	0.27	
			N471881	217.00	218.00	1.00	0.46	0.28	
			N471882	218.00	219.00	1.00	0.15	0.29	
			N471883	219.00	220.00	1.00	0.08	0.24	
			N471885	220.00	221.00	1.00	0.09	0.25	
			N471886	221.00	222.00	1.00	0.11	0.27	
			N471887	222.00	223.00	1.00	0.24	0.29	
			N471888	223.00	224.00	1.00	0.38	0.3	
			N471889	224.00	224.80	0.80	0.53	0.31	
			N471890	224.80	225.50	0.70	0.21	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
225.50	229.55	**MDOP Mafic Dyke with Graphitic Overprinting** Greenish-grey, massive, fine grained mafic dyke. Weak graphite as fracture filling veinlets. Trace pyrite. Biotite increases towards the lower contact. Upper contact sharp at 55 dca. Lower contact sharp at 70 dca.	N471892	225.50	226.50	1.00	0.88	0.21	
			N471893	226.50	227.50	1.00	1.02	0.21	
			N471894	227.50	228.50	1.00	2.13	0.16	
			N471896	228.50	229.55	1.05	4.11	0.49	
229.55	236.45	**SYENOP Syenite with Graphitic Overprinting** Medium grey, with light pinkish sections, massive syenite. Weak graphite overprint as fracture filling veinlets. Mafic dyke with graphitic overprint from 234.58 to 234.93. Both contacts at 90 dca.	N471897	229.55	230.50	0.95	0.76	0.07	
			N471898	230.50	231.50	1.00	0.58	0.04	
			N471899	231.50	232.50	1.00	0.47	0.15	
			N471900	232.50	233.50	1.00	0.45	0.09	
			N471901	233.50	234.50	1.00	0.58	0.14	
			N471902	234.50	235.50	1.00	1.2	0.35	
			N471903	235.50	236.45	0.95	0.19	0.3	
236.45	243.15	**MDOP Mafic Dyke with Graphitic Overprinting** Greenish-grey, fine grained, massive mafic dyke. Moderate graphite overprinting as fracture filling graphite veinlets. Upper contact sharp at 70 dca. Lower contact sharp at 45 dca. Trace carbonate at 239.1.	N471905	236.45	237.40	0.95	0.35	0.04	
			N471906	237.40	238.30	0.90	0.59	0.13	2.94
			N471907	238.30	239.20	0.90	0.96	0.13	2.91
			N471908	239.20	240.20	1.00	0.41	0.34	2.88
			N471909	240.20	241.20	1.00	0.74	0.23	2.88
			N471910	241.20	242.20	1.00	1.5	0.42	2.85
			N471912	242.20	243.15	0.95	1.13	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
243.15 -	291.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained massive syenite. Weak graphite overprinting as fracture filling graphite veinlets at 251.2, 256.9 to 257.5 and 269.6m. Trace pyrite as hairline fracture filling veinlets at 257.3m. EOH 291.0m	N471913	243.15	244.10	0.95	0.92	0.18	
			N471914	244.10	245.00	0.90	0.42	0.22	
			N471916	245.00	246.00	1.00	0.38	0.29	
			N471917	246.00	247.00	1.00	0.32	0.3	
			N471918	247.00	248.00	1.00	0.11	0.26	
			N471919	248.00	249.00	1.00	0.15	0.21	
			N471920	249.00	250.00	1.00	0.49	0.15	
			N471921	250.00	251.00	1.00	1.23	0.35	
			N471922	251.00	252.00	1.00	1.46	0.31	
			N471923	252.00	253.00	1.00	0.98	0.36	
			N471925	253.00	254.00	1.00	0.23	0.25	
			N471926	254.00	255.00	1.00	0.56	0.23	
			N471927	255.00	256.00	1.00	0.43	0.49	
			N471928	256.00	257.00	1.00	0.83	0.66	
			N471929	257.00	258.00	1.00	0.93	0.65	
			N471930	258.00	259.00	1.00	0.62	0.37	
			N471932	259.00	260.00	1.00	0.65	0.3	
			N471933	260.00	261.00	1.00	1.7	0.38	
			N471934	261.00	262.00	1.00	0.27	0.31	
			N471936	262.00	263.00	1.00	0.67	0.31	
			N471937	263.00	264.00	1.00	0.35	0.35	
			N471938	264.00	265.00	1.00	0.12	0.41	
			N471939	265.00	266.00	1.00	0.68	0.3	
			N471940	266.00	267.00	1.00	1.38	0.18	
			N471941	267.00	268.00	1.00	0.38	0.14	
			N471942	268.00	269.00	1.00	0.63	0.22	
			N471943	269.00	270.00	1.00	0.74	0.07	
			N471945	270.00	271.00	1.00	1.13	0.07	
			N471946	271.00	272.00	1.00	1.02	0.09	
			N471947	272.00	273.00	1.00	0.28	0.2	
			N471948	273.00	274.00	1.00	0.37	0.23	
			N471949	274.00	275.00	1.00	0.84	0.63	
			N471950	275.00	276.00	1.00	0.43	0.33	
			N471952	276.00	277.00	1.00	0.14	0.33	
			N471953	277.00	278.00	1.00	0.08	0.27	
			N471954	278.00	279.00	1.00	0.27	0.31	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N471956	279.00	280.00	1.00	0.12	0.24	
		N471957	280.00	281.00	1.00	0.15	0.26	
		N471958	281.00	282.00	1.00	0.34	0.31	
		N471959	282.00	283.00	1.00	0.22	0.14	
		N471960	283.00	284.00	1.00	0.17	0.27	
		N471961	284.00	285.00	1.00	0.34	0.22	
		N471962	285.00	286.00	1.00	0.2	0.21	
		N471963	286.00	287.00	1.00	0.21	0.35	
		N471965	287.00	288.00	1.00	0.27	0.22	
		N471966	288.00	289.00	1.00	0.31	0.12	
		N471967	289.00	290.00	1.00	0.18	0.23	
		N471968	290.00	291.00	1.00	0.44	0.16	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	261.00	10/06/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545706	682862.3			Reflex APS	12/06/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	123.60	51.30		-49.80	Chibougamau Diamond Drilling	13/06/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	203	*Casing Pulled*	*Casing (1)*	69.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East Pipe at depth from the Southwest.	This hole intetsected 102. 77m of graphite breccia from 90.10m to 192.87m. 192.87 to 261.00 overprinted syenite and dykes. From 63.00m to 261.00m, the assays averaged 3.51% Cg over 198.00m; within this intersection a higher grade graphite zone from 63.00m to 200.00m averaged 4.96% Cg over 137.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
219.00			59.9	50.9	-50.6	-50.6	☑	Reflex EZ	56245	
225.00			59.8	50.8	-50.6	-50.6	☑	Reflex EZ	56221	
228.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56209	
237.00			59.9	50.9	-50.6	-50.6	☑	Reflex EZ	56201	
243.00			60.1	51.1	-50.9	-50.9	☑	Reflex EZ	56195	
246.00			60	51	-51	-51	☑	Reflex EZ	56177	
249.00			60.1	51.1	-50.7	-50.7	☑	Reflex EZ	56158	
258.00			59.6	50.6	-50.6	-50.6	☑	Reflex EZ	56252	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	58.00	**OB Overburden** From 0 to 55.5 unknown overburden muskeg, mud. From 55.5 to 58m pebble size, rounded 1-5cm limestone, granite and mafic dyke material plus 10-15cm grounded sections of beige coloured limestone/siltstone.							
58.00	60.95	**SED Sediment** Beige to brownish-beige, limestone plus siltstone, vuggy in places.							
60.95	62.40	**MD Mafic Dyke** Dark green, massive, fine grained, soft mafic dyke. Fault gouge at 62.1 and at 62.6. The core is fractured and blocky.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
62.40	90.10	**SYENOP Syenite with Graphitic Overprinting** Medium grey to brownish-pink, medium grained syenite. From upper contact to 66.5 moderate paleo-weathering. The core is soft but doesn't crumble. From 64 to 71m moderate fracture filling carbonate veinlets 1-5mm. From 67 to 76.5 weak to moderate graphite overprint as fracture filling graphite veinlets 1-2mm. From 77 to 90.1 weak graphite overprinting as odd fracture filling veinlet. At 81 and 83.7 5cm malachite stained mafic dykes dark green, soft.	N471969	63.00	64.00	1.00	2.15	0.1	
			N471970	64.00	65.00	1.00	1.04	0.24	
			N471972	65.00	66.00	1.00	1.12	0.15	
			N471973	66.00	67.00	1.00	0.94	0.59	
			N471974	67.00	68.00	1.00	2.18	0.05	
			N471976	68.00	69.00	1.00	0.88	0.12	
			N471977	69.00	70.00	1.00	1.21	0.05	
			N471978	70.00	71.00	1.00	0.95	0.05	
			N471979	71.00	72.00	1.00	0.82	0.06	
			N471980	72.00	73.00	1.00	0.5	0.08	
			N471981	73.00	74.00	1.00	0.83	0.07	
			N471982	74.00	75.00	1.00	0.9	0.05	
			N471983	75.00	76.00	1.00	0.86	0.08	
			N471985	76.00	77.00	1.00	0.88	0.07	
			N471986	77.00	78.00	1.00	0.32	0.08	
			N471987	78.00	79.00	1.00	0.38	0.11	
			N471988	79.00	80.00	1.00	0.28	0.19	
			N471989	80.00	81.00	1.00	0.47	0.22	
			N471990	81.00	82.00	1.00	0.25	0.19	
			N471992	82.00	83.00	1.00	0.23	0.24	
			N471993	83.00	84.00	1.00	0.58	0.1	
			N471994	84.00	85.00	1.00	0.41	0.12	
			N471996	85.00	86.00	1.00	5.97	0.04	2.59
			N471997	86.00	87.00	1.00	0.45	0.08	2.59
			N471998	87.00	88.00	1.00	0.59	0.05	2.58
			N471999	88.00	89.00	1.00	1.04	0.09	2.61
			N472000	89.00	90.10	1.10	1.19	0.04	2.56

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
90.10	124.00	**GRPBX Graphitic Breccia** Dark grey, massive syenite with brownish sections. Moderate graphite as fracture filling veinlets from upper contact to 99.8m. Brecciation increases from 99.8m onward. Good graphite in the matrix and as fracture filling veinlets. From 103.9 to 104.6m paleo weathered section, vuggy, dark green, malachite along fractures.	N472001	90.10	91.10	1.00	0.51	0.09	
			N472002	91.10	92.00	0.90	9.33	0.02	
			N472003	92.00	93.00	1.00	5.94	0.02	
			N472005	93.00	94.00	1.00	5.5	0.02	
			N472006	94.00	95.00	1.00	11.9	0.03	
			N472007	95.00	96.00	1.00	9.6	0.03	
			N472008	96.00	97.00	1.00	7.31	0.03	
			N472009	97.00	98.00	1.00	5.14	0.04	
			N472010	98.00	99.00	1.00	6.63	0.03	
			N472012	99.00	100.00	1.00	12.4	0.02	
			N472013	100.00	101.00	1.00	13.7	0.02	
			N472014	101.00	102.00	1.00	3.81	0.02	
			N472016	102.00	103.00	1.00	4.93	0.04	
			N472017	103.00	104.00	1.00	8.79	0.03	
			N472018	104.00	105.00	1.00	6.25	0.02	
			N472019	105.00	106.00	1.00	6.89	0.03	
			N472020	106.00	107.00	1.00	6.48	0.02	
			N472021	107.00	108.00	1.00	7.44	0.04	
			N472022	108.00	109.00	1.00	9.52	0.02	
			N472023	109.00	110.00	1.00	4.16	0.03	
			N472025	110.00	111.00	1.00	6.83	0.02	
			N472026	111.00	112.00	1.00	1.33	0.04	
			N472027	112.00	113.00	1.00	8.09	0.01	
			N472028	113.00	114.00	1.00	9.13	0.06	
			N472029	114.00	115.00	1.00	4.74	0.01	
			N472030	115.00	116.00	1.00	6.97	0.02	
			N472032	116.00	117.00	1.00	7.52	0.02	
			N472033	117.00	118.00	1.00	7.96	0.01	
			N472034	118.00	119.00	1.00	9.45	0.02	
			N472036	119.00	120.00	1.00	9.77	0.03	2.51
			N472037	120.00	121.00	1.00	8.73	0.03	2.52
			N472038	121.00	122.00	1.00	8.68	0.02	2.52
			N472039	122.00	123.00	1.00	9.49	0.03	2.56
			N472040	123.00	124.00	1.00	5.99	0.02	2.51

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
124.00	127.70	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown to grey, medium grey, massive syenite. Very weak graphite overprint. Upper contact at 60 dca. Broken core at lower contact.	N472041	124.00	125.00	1.00	1.37	0.03	
			N472042	125.00	126.00	1.00	0.29	0.18	
			N472043	126.00	126.80	0.80	3.26	0.08	
			N472045	126.80	127.70	0.90	8.51	0.03	
127.70	133.10	**ID Intermediate Dyke** Light green to greenish-grey, fine grained, massive mafic to intermediate dyke. Moderately hard. Hematite staining along fractures at 128.6m and from 132.2 to 133m. Lower contact sharp at 40 dca. No visible graphite.	N472046	127.70	128.80	1.10	0.01	0.18	
			N472047	128.80	129.90	1.10	0.14	0.06	
			N472048	129.90	131.00	1.10	0.09	0.04	
			N472049	131.00	132.00	1.00	0.07	0.04	
			N472050	132.00	133.10	1.10	0.05	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
133.10	187.30	**GRPBX Graphitic Breccia** Medium to dark, grey, medium grained, brecciated syenite. Good graphite as fracture filling veinlets and in the matrix. Fault zone from 142.1 to 144. Fractured core, angular fragments from 1-5cm. Good graphite in the matrix and as fracture filling veinlets from 145 to 154m and from 158.5 to 162m. Good graphite from 162 to 170m and from 173 to 178m.	N472052	133.10	134.00	0.90	3.96	0.09	
			N472053	134.00	135.00	1.00	4	0.12	
			N472054	135.00	136.00	1.00	5.65	0.13	
			N472056	136.00	137.00	1.00	3.53	0.12	
			N472057	137.00	138.00	1.00	4	0.09	
			N472058	138.00	139.00	1.00	3.49	0.03	
			N472059	139.00	140.00	1.00	6.79	0.09	
			N472060	140.00	141.00	1.00	6.52	0.11	
			N472061	141.00	142.00	1.00	8.63	0.1	
			N472062	142.00	143.00	1.00	5.73	0.08	
			N472063	143.00	144.00	1.00	7.71	0.04	
			N472065	144.00	145.00	1.00	7.93	0.08	
			N472066	145.00	146.00	1.00	9.59	0.1	
			N472067	146.00	147.00	1.00	5.63	0.18	
			N472068	147.00	148.00	1.00	4.62	0.14	
			N472069	148.00	149.00	1.00	10	0.12	
			N472070	149.00	150.00	1.00	10.1	0.18	
			N472072	150.00	151.00	1.00	8.12	0.11	
			N472073	151.00	152.00	1.00	7.68	0.16	
			N472074	152.00	153.00	1.00	11.2	0.22	
			N472076	153.00	154.00	1.00	14.1	0.17	
			N472077	154.00	155.00	1.00	2.58	0.17	
			N472078	155.00	156.00	1.00	2.58	0.21	
			N472079	156.00	157.00	1.00	6.78	0.22	
			N472080	157.00	158.00	1.00	1.21	0.16	
			N472081	158.00	159.00	1.00	8.69	0.09	
			N472082	159.00	160.00	1.00	5.94	0.23	
			N472083	160.00	161.00	1.00	11.3	0.09	
			N472085	161.00	162.00	1.00	7.45	0.18	
			N472086	162.00	163.00	1.00	6.43	0.16	
			N472087	163.00	164.00	1.00	1.98	0.27	
			N472088	164.00	165.00	1.00	13	0.33	
			N472089	165.00	166.00	1.00	3.47	0.21	
			N472090	166.00	167.00	1.00	9.16	0.17	
			N472092	167.00	168.00	1.00	9.81	0.13	
			N472093	168.00	169.00	1.00	6.09	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N472094	169.00	170.00	1.00	12.3	0.23	
			N472096	170.00	171.00	1.00	4.8	0.27	
			N472097	171.00	172.00	1.00	6.35	0.28	
			N472098	172.00	173.00	1.00	3.64	0.36	
			N472099	173.00	174.00	1.00	11.6	0.22	
			N472100	174.00	175.00	1.00	9.52	0.23	
			N472101	175.00	176.00	1.00	8.17	0.22	
			N472102	176.00	177.00	1.00	10.5	0.23	
			N472103	177.00	178.00	1.00	6.24	0.19	
			N472105	178.00	179.00	1.00	4.54	0.28	
			N472106	179.00	180.00	1.00	1.39	0.27	
			N472107	180.00	181.00	1.00	3.3	0.27	
			N472108	181.00	182.00	1.00	1.18	0.27	
			N472109	182.00	183.00	1.00	10.1	0.3	
			N472110	183.00	184.00	1.00	4.5	0.28	
			N472112	184.00	185.00	1.00	7.94	0.29	
			N472113	185.00	186.10	1.10	7.32	0.24	
			N472114	186.10	187.30	1.20	7.8	0.26	
187.30	191.77	**SYENOP Syenite with Graphitic Overprinting** Medium grained, massive, grey to brownish grey syenite. Weak graphite overprint as hairline fracture filling veinlets.	N472116	187.30	188.20	0.90	0.32	0.31	
			N472117	188.20	189.00	0.80	0.25	0.3	
			N472118	189.00	190.00	1.00	0.62	0.29	
			N472119	190.00	190.90	0.90	2.11	0.32	
			N472120	190.90	191.77	0.87	0.99	0.3	
191.77	192.87	**GRPBX Graphitic Breccia** Brecciated dark grey syenite. Mainly fracture filling graphite veinlets from 192 to 192.4m. Moderate graphite. Carbonate veinlets near the lower contact.	N472121	191.77	192.87	1.10	5.48	0.23	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.87	261.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish grey, massive, medium grained syenite. From 232.4 to 232.7m brownish-green biotite rich mafic dyke. Weak graphite overprinting as fracture filling graphite veinlets from 217 to 218m, from 235 to 236.2m and from 249.8 to 251.5m. EOH 261.0m.	N472122	192.87	193.90	1.03	1.6	0.25	
			N472123	193.90	195.00	1.10	0.7	0.37	
			N472125	195.00	196.00	1.00	2.54	0.27	
			N472126	196.00	197.00	1.00	0.61	0.24	
			N472127	197.00	198.00	1.00	0.84	0.24	
			N472128	198.00	199.00	1.00	2.65	0.19	
			N472129	199.00	200.00	1.00	1.52	0.25	
			N472130	200.00	201.00	1.00	0.01	0.26	
			N472132	201.00	202.00	1.00	0.06	0.26	
			N472133	202.00	203.00	1.00	0.12	0.23	
			N472134	203.00	204.00	1.00	0.06	0.21	
			N472136	204.00	205.00	1.00	0.44	0.33	
			N472137	205.00	206.00	1.00	0.08	0.31	
			N472138	206.00	207.00	1.00	0.1	0.27	
			N472139	207.00	208.00	1.00	0.02	0.11	
			N472140	208.00	209.00	1.00	0.06	0.13	
			N472141	209.00	210.00	1.00	0.47	0.25	
			N472142	210.00	211.00	1.00	0.07	0.25	
			N472143	211.00	212.00	1.00	0.08	0.23	
			N472145	212.00	213.00	1.00	0.02	0.1	
			N472146	213.00	214.00	1.00	0.01	0.2	
			N472147	214.00	215.00	1.00	0.09	0.24	
			N472148	215.00	216.00	1.00	0.32	0.29	
			N472149	216.00	217.00	1.00	0.12	0.16	
			N472150	217.00	218.00	1.00	0.54	0.34	
			N472152	218.00	219.00	1.00	0.18	0.34	
			N472153	219.00	220.00	1.00	0.12	0.33	
			N472154	220.00	221.00	1.00	0.3	0.3	
			N472156	221.00	222.00	1.00	0.02	0.16	
			N472157	222.00	223.00	1.00	0.09	0.22	
			N472158	223.00	224.00	1.00	0.08	0.12	
			N472159	224.00	225.00	1.00	0.03	0.08	
			N472160	225.00	226.00	1.00	0.05	0.15	
			N472161	226.00	227.00	1.00	0.09	0.24	
			N472162	227.00	228.00	1.00	0.05	0.14	
			N472163	228.00	229.00	1.00	0.08	0.25	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N472165	229.00	230.00	1.00	0.06	0.24	
		N472166	230.00	231.00	1.00	0.06	0.34	
		N472167	231.00	232.00	1.00	0.1	0.15	
		N472168	232.00	233.00	1.00	0.17	0.05	
		N472169	233.00	234.00	1.00	0.12	0.27	
		N472170	234.00	235.00	1.00	0.29	0.16	
		N472172	235.00	236.00	1.00	1.41	0.28	
		N472173	236.00	237.00	1.00	0.78	0.35	
		N472174	237.00	238.00	1.00	0.77	0.37	
		N472176	238.00	239.00	1.00	0.11	0.26	
		N472177	239.00	240.00	1.00	0.13	0.25	
		N472178	240.00	241.00	1.00	0.22	0.3	
		N472179	241.00	242.00	1.00	0.27	0.17	
		N472180	242.00	243.00	1.00	0.13	0.27	
		N472181	243.00	244.00	1.00	0.36	0.31	
		N472182	244.00	245.00	1.00	0.19	0.23	
		N472183	245.00	246.00	1.00	0.18	0.22	
		N472185	246.00	247.00	1.00	0.79	0.2	
		N472186	247.00	248.00	1.00	0.18	0.26	
		N472187	248.00	249.00	1.00	0.06	0.27	
		N472188	249.00	250.00	1.00	0.46	0.29	
		N472189	250.00	251.00	1.00	1.02	0.31	
		N472190	251.00	252.00	1.00	0.61	0.36	
		N472192	252.00	253.00	1.00	1.05	0.28	
		N472193	253.00	254.00	1.00	1.1	0.35	
		N472194	254.00	255.00	1.00	0.34	0.38	
		N472196	255.00	256.00	1.00	0.43	0.33	
		N472197	256.00	257.00	1.00	0.42	0.44	
		N472198	257.00	258.00	1.00	0.25	0.33	
		N472199	258.00	259.00	1.00	0.15	0.24	
		N472200	259.00	260.00	1.00	0.15	0.14	
		N472201	260.00	261.00	1.00	0.09	0.25	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	270.00	13/06/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545743.2	682836.6			Reflex APS		14/06/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	123.40	48.40		-49.90	Chibougamau Diamond Drilling		15/06/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	207	*Casing Pulled*	*Casing (1)*	63.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Chibougamau Diamond Drilling Ltd	

Purpose	*Results*	*Comments*
Test The East Pipe at depth from Southwest.	This hole intersected ~66m of graphite breccia from 112.15m to 178.47m. The assays from 62.00m to 241.00m averaged 3.10% Cg over 179.00m; within this intersection a higher grade graphite zone from 83.00m to 179.30m averaged 5.28% Cg over 96.30m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
84.00			55.6	46.6	-50.1	-50.1	☑	Reflex EZ	56567	
135.00			55.9	46.9	-50.1	-50.1	☑	Reflex EZ	56412	
186.00			56.5	47.5	-49.6	-49.6	☑	Reflex EZ	56825	
237.00			56.7	47.7	-49.2	-49.2	☑	Reflex EZ	56590	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	54.80	**OB Overburden** From 0 to 54.4m unknown overburden muskeg, mud. From 54.4-54.8m. Grounded core, boulders of sediments and mafic rock.							
54.80	60.10	**SED Sediment** Milky white to beige-grey limestone/siltstone, vuggy in places.							
60.10	71.07	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown to medium grey, medium grained, massive syenite. Moderate graphite overprinting as fracture filling veinlets from 62 to 65m. Weak to moderate paleo-weathering from 60.1 to 62.2m.	N472202	62.00	63.00	1.00	0.73	0.5	
			N472203	63.00	64.00	1.00	0.7	0.33	
			N472205	64.00	65.00	1.00	0.45	0.08	
			N472206	65.00	66.00	1.00	0.18	0.02	
			N472207	66.00	67.00	1.00	0.17	0.02	
			N472208	67.00	68.00	1.00	0.09	0.03	
			N472209	68.00	69.00	1.00	0.13	0.09	
			N472210	69.00	70.00	1.00	0.08	0.03	
			N472212	70.00	71.07	1.07	1.26	0.02	
71.07	72.10	**MD Mafic Dyke** Fine grained, massive, green to reddish-brown. Altered mafic dyke. Fracture filling white albite veinlets. Upper contact sharp at 35 dca. Lower contact sharp at 30 dca. No visible graphite.	N472213	71.07	72.10	1.03	0.23	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
72.10	112.15	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey with brownish-red near the upper contact massive syenite. 10cm fault gouge at 72.9m. 10cm dark green soft, mafic dyke from 78.7 to 78.8m. Weak graphite overprinting as fracture filling veinlets from 85 to 88m. 5cm dark green soft mafic dyke at 91 and 101.7m. Moderate graphite overprinting as fracture filling veinlets from 105 to 106.6m., moderate fracturing subparallel to ca from 105.5 to 107.3m.	N472214	72.10	73.00	0.90	2.55	0.04	
			N472216	73.00	74.00	1.00	0.04	0.06	
			N472217	74.00	75.00	1.00	0.04	0.05	
			N472218	75.00	76.00	1.00	0.03	0.07	
			N472219	76.00	77.00	1.00	0.01	0.14	
			N472220	77.00	78.00	1.00	0.02	0.15	
			N472221	78.00	79.00	1.00	0.11	0.15	
			N472222	79.00	80.00	1.00	0.49	0.05	
			N472223	80.00	81.00	1.00	0.04	0.15	
			N472225	81.00	82.00	1.00	0.16	0.24	
			N472226	82.00	83.00	1.00	0.07	0.22	
			N472227	83.00	84.00	1.00	2.47	0.07	
			N472228	84.00	85.00	1.00	0.85	0.06	
			N472229	85.00	86.00	1.00	0.75	0.09	
			N472230	86.00	87.00	1.00	1.53	0.1	
			N472232	87.00	88.00	1.00	0.98	0.13	
			N472233	88.00	89.00	1.00	0.48	0.21	
			N472234	89.00	90.00	1.00	0.12	0.25	
			N472236	90.00	91.00	1.00	0.13	0.21	
			N472237	91.00	92.00	1.00	0.44	0.22	
			N472238	92.00	93.00	1.00	0.58	0.1	
			N472239	93.00	94.00	1.00	0.63	0.15	
			N472240	94.00	95.00	1.00	0.13	0.23	
			N472241	95.00	96.00	1.00	0.15	0.24	
			N472242	96.00	97.00	1.00	0.24	0.22	
			N472243	97.00	98.00	1.00	0.16	0.28	
			N472245	98.00	99.00	1.00	0.1	0.24	
			N472246	99.00	100.00	1.00	0.3	0.26	2.6
			N472247	100.00	101.00	1.00	1.92	0.12	2.57
			N472248	101.00	102.00	1.00	1.17	0.03	2.52
			N472249	102.00	103.00	1.00	0.75	0.1	2.62
			N472250	103.00	104.00	1.00	0.36	0.25	2.6
			N472252	104.00	105.00	1.00	0.77	0.14	
			N472253	105.00	106.00	1.00	1.85	0.11	
			N472254	106.00	107.00	1.00	2.35	0.1	
			N472256	107.00	108.00	1.00	0.26	0.23	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N472257	108.00	109.00	1.00	0.66	0.17	
		N472258	109.00	110.00	1.00	0.8	0.21	
		N472259	110.00	111.00	1.00	0.78	0.12	
		N472260	111.00	112.15	1.15	0.47	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
112.15	155.44	**GRPBX Graphitic Breccia** Dark grey with brownish sections, brecciated syenite. Good graphite in the matrix. Sub angular to subrounded fragments of greenish-grey (mafic dyke) and dark grey (syenite) 3-15cm in size in graphite flooded matrix. From 122 to 122.35m fine grained, massive greenish-grey mafic dyke. Fracture filling graphite veinlets. Both contacts sharp at 70 dca. Good graphite in the matrix from 122.35 to 139m. From 141.5 to 147m - fault zone. Fractured, blocky core, 80 cm lost core from 146.2 to 147m.	N472261	112.15	113.10	0.95	11.7	0.03	
			N472262	113.10	114.00	0.90	11.2	0.03	
			N472263	114.00	115.00	1.00	8.69	0.03	
			N472265	115.00	116.00	1.00	6.2	0.08	
			N472266	116.00	117.00	1.00	0.39	0.16	
			N472267	117.00	118.00	1.00	4.21	0.04	
			N472268	118.00	119.00	1.00	11.1	0.05	
			N472269	119.00	120.00	1.00	4.35	0.04	
			N472270	120.00	121.00	1.00	6.1	0.04	
			N472272	121.00	122.00	1.00	11.4	0.04	
			N472273	122.00	123.00	1.00	8.76	0.08	
			N472274	123.00	124.00	1.00	6.51	0.06	
			N472276	124.00	125.00	1.00	6.86	0.06	
			N472277	125.00	126.00	1.00	9.08	0.05	
			N472278	126.00	127.00	1.00	8.65	0.05	
			N472279	127.00	128.00	1.00	9.36	0.07	
			N472280	128.00	129.00	1.00	8.89	0.07	
			N472281	129.00	130.00	1.00	14.9	0.09	
			N472282	130.00	131.00	1.00	7.4	0.1	
			N472283	131.00	132.00	1.00	9.14	0.12	
			N472285	132.00	133.00	1.00	6.02	0.09	
			N472286	133.00	134.00	1.00	13.2	0.09	
			N472287	134.00	135.00	1.00	6.59	0.07	
			N472288	135.00	136.00	1.00	7.67	0.07	
			N472289	136.00	137.00	1.00	7.5	0.08	
			N472290	137.00	138.00	1.00	2.17	0.11	
			N472292	138.00	139.00	1.00	7.44	0.12	
			N472293	139.00	140.00	1.00	3.21	0.1	
			N472294	140.00	141.00	1.00	2.23	0.09	
			N472296	141.00	142.00	1.00	8.07	0.08	
			N472297	142.00	143.00	1.00	8.76	0.1	
			N472298	143.00	144.00	1.00	6.02	0.19	
			N472299	144.00	144.75	0.75	11.8	0.04	
			N472300	144.75	145.50	0.75	7.1	0.04	
			N472301	145.50	147.00	1.50	6	0.09	
			N472302	147.00	148.00	1.00	8.11	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N472303	148.00	149.00	1.00	2.73	0.11	
			N472305	149.00	150.00	1.00	3.27	0.14	
			N472306	150.00	151.00	1.00	7.16	0.05	
			N472307	151.00	152.00	1.00	7.11	0.04	
			N472308	152.00	153.00	1.00	6.78	0.06	
			N472309	153.00	154.00	1.00	10.4	0.04	
			N472310	154.00	154.70	0.70	8.32	0.05	
			N472312	154.70	155.44	0.74	8.74	0.08	
155.44	156.55	**MDOP Mafic Dyke with Graphitic Overprinting** Medium grey to greenish-grey, fine grained, massive mafic dyke. Fracture filling graphite veinlets. Upper contact sharp at 45 dca. Lower contact sharp at 80 dca.	N472313	155.44	156.55	1.11	1.05	0.08	
156.55	157.85	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite. Good graphite as fracture filling veinlets.	N472314	156.55	157.85	1.30	9.42	0.07	
157.85	159.10	**FD Felsic Dyke** Reddish-pink, fine-grained, massive felsic dyke. No visible graphite. Both contacts sharp at 65 dca.	N472316	157.85	159.10	1.25	0.18	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
159.10	178.47	**GRPBX Graphitic Breccia** Medium to dark grey, brecciated medium grained syenite. Good graphite as fracture filling veinlets and in the matrix.	N472317	159.10	160.00	0.90	4.57	0.06	
			N472318	160.00	161.00	1.00	9	0.04	
			N472319	161.00	162.00	1.00	9.29	0.05	
			N472320	162.00	163.00	1.00	6.85	0.06	
			N472321	163.00	164.00	1.00	13.9	0.13	
			N472322	164.00	165.00	1.00	10.9	0.07	
			N472323	165.00	166.00	1.00	2.08	0.19	
			N472325	166.00	167.00	1.00	8.28	0.11	
			N472326	167.00	168.00	1.00	10.5	0.14	2.58
			N472327	168.00	169.00	1.00	5.08	0.21	2.61
			N472328	169.00	170.00	1.00	4.24	0.2	2.61
			N472329	170.00	171.00	1.00	8.32	0.19	2.54
			N472330	171.00	172.00	1.00	7.37	0.19	2.55
			N472332	172.00	173.00	1.00	6.7	0.24	
			N472333	173.00	174.00	1.00	8.95	0.17	
			N472334	174.00	175.00	1.00	8.85	0.18	
			N472336	175.00	176.00	1.00	6.65	0.21	
			N472337	176.00	177.00	1.00	6.17	0.21	
			N472338	177.00	177.70	0.70	9.61	0.22	
			N472339	177.70	178.47	0.77	5.81	0.24	
178.47	186.10	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-brown, massive syenite. Weak graphite overprinting as hairline fracture filling veinlets from 181 to 182m.	N472340	178.47	179.30	0.83	1.83	0.15	
			N472341	179.30	180.10	0.80	0.91	0.23	
			N472342	180.10	181.00	0.90	0.41	0.25	
			N472343	181.00	182.00	1.00	0.72	0.32	
			N472345	182.00	183.00	1.00	0.3	0.18	
			N472346	183.00	184.00	1.00	0.2	0.21	
			N472347	184.00	185.00	1.00	0.2	0.29	
			N472348	185.00	186.10	1.10	0.26	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
186.10	189.90	**MDOP Mafic Dyke with Graphitic Overprinting** Light grey to greenish-grey, fine grained, massive mafic dyke. Weak foliation at 70 dca. Weak graphite overprinting as odd fracture filling graphite veinlet at 189.5m.	N472349	186.10	187.00	0.90	0.53	0.22	
			N472350	187.00	188.00	1.00	0.19	0.19	
			N472352	188.00	189.00	1.00	0.26	0.17	
			N472353	189.00	189.90	0.90	0.72	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
189.90	223.15	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained, massive syenite. Weak graphite overprinting as odd fracture filling graphite veinlet. From 190.5-190.75m dark green, fine grained weakly foliated mafic dyke at 45 dca. Blocky core, moderate fracturing from 205.6 to 206.3m to 15-20cm mafic dykes at 205.7m and at 206.6m. From 216.85m to 217.4m mafic dyke at 60 dca. From 221.72m to 222.2m mafic dyke at 90 dca.	N472354	189.90	191.00	1.10	0.43	0.22	
			N472356	191.00	192.00	1.00	0.89	0.29	
			N472357	192.00	193.00	1.00	0.46	0.25	
			N472358	193.00	194.00	1.00	0.17	0.34	
			N472359	194.00	195.00	1.00	0.43	0.21	
			N472360	195.00	196.00	1.00	0.21	0.23	
			N472361	196.00	197.00	1.00	0.13	0.22	
			N472362	197.00	198.00	1.00	1.85	0.24	
			N472363	198.00	199.00	1.00	0.71	0.29	
			N472365	199.00	200.00	1.00	1.46	0.51	
			N472366	200.00	201.00	1.00	0.55	0.29	
			N472367	201.00	202.00	1.00	1.06	0.27	
			N472368	202.00	203.00	1.00	1.32	0.3	
			N472369	203.00	204.00	1.00	0.21	0.25	
			N472370	204.00	205.00	1.00	0.2	0.23	
			N472372	205.00	206.00	1.00	0.89	0.42	
			N472373	206.00	207.00	1.00	0.45	0.22	
			N472374	207.00	208.00	1.00	0.28	0.27	
			N472376	208.00	209.00	1.00	0.35	0.32	
			N472377	209.00	210.00	1.00	0.33	0.29	
			N472378	210.00	211.00	1.00	1.69	0.28	
			N472379	211.00	212.00	1.00	0.8	0.28	
			N472380	212.00	213.00	1.00	0.33	0.25	
			N472381	213.00	214.00	1.00	2.39	0.33	
			N472382	214.00	215.00	1.00	1.59	0.26	
			N472383	215.00	216.00	1.00	1.84	0.25	
			N472385	216.00	217.00	1.00	0.4	0.2	
			N472386	217.00	218.00	1.00	1.12	0.24	
			N472387	218.00	219.00	1.00	1.51	0.16	
			N472388	219.00	220.00	1.00	1.72	0.05	
			N472389	220.00	221.00	1.00	1.16	0.28	
			N472390	221.00	222.00	1.00	0.45	0.12	
			N472392	222.00	223.15	1.15	0.59	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
223.15 -	224.30	**MDOP Mafic Dyke with Graphitic Overprinting** Greenish-grey, fine grained, weakly foliated, biotite rich mafic dyke. Weak graphite overprinting a fracture filling veinlets near the upper contact. Upper contact sharp at 80 dca. Lower contact sharp at 55 dca.	N472393	223.15	224.30	1.15	0.73	0.03	
224.30 -	230.80	**SYEN Syenite** Medium grey, fine to medium grained, massive syenite. No visible graphite.	N472394	224.30	225.20	0.90	0.41	0.24	
			N472396	225.20	226.10	0.90	0.37	0.33	
			N472397	226.10	227.00	0.90	0.49	0.27	
			N472398	227.00	228.00	1.00	0.21	0.34	
			N472399	228.00	229.00	1.00	0.33	0.33	
			N472400	229.00	230.00	1.00	0.17	0.3	
			N472401	230.00	230.80	0.80	0.35	0.27	
230.80 -	233.45	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. No visible graphite. Upper contact sharp at 70 dca. Lower contact sharp at 60 dca.	N472402	230.80	232.00	1.20	0.89	0.17	
			N472403	232.00	232.70	0.70	0.14	0.18	
			N472405	232.70	233.45	0.75	0.06	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
233.45	244.83	**SYEN Syenite** Light to medium grey, medium grained, massive syenite. No visible graphite.	N472406	233.45	234.20	0.75	0.11	0.23	
			N472407	234.20	235.00	0.80	0.06	0.1	
			N472408	235.00	236.00	1.00	0.1	0.08	
			N472409	236.00	237.00	1.00	0.19	0.15	
			N472410	237.00	238.00	1.00	0.64	0.23	
			N472412	238.00	239.00	1.00	0.45	0.25	
			N472413	239.00	240.00	1.00	0.61	0.44	
			N472414	240.00	241.00	1.00	0.31	0.25	
			N472416	241.00	242.00	1.00	0.15	0.18	
			N472417	242.00	243.00	1.00	0.03	0.08	
			N472418	243.00	244.00	1.00	0.01	0.09	
			N472419	244.00	244.83	0.83	0.02	0.16	
244.83	245.90	**MD Mafic Dyke** Greenish-grey, fine grained, massive, weakly foliated mafic dyke. No visible graphite. Upper contact sharp at 60 dca. Lower contact sharp at 65 dca.	N472420	244.83	245.90	1.07	0.19	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
245.90	270.00	**SYEN Syenite** Light to medium grey, medium grained, massive syenite. No visible graphite. EOH 270.0m	N472421	245.90	247.00	1.10	0.04	0.1	
			N472422	247.00	248.00	1.00	0.03	0.18	
			N472423	248.00	249.00	1.00	0.05	0.17	
			N472425	249.00	250.00	1.00	0.15	0.25	
			N472426	250.00	251.00	1.00	0.04	0.08	
			N472427	251.00	252.00	1.00	0.02	0.11	
			N472428	252.00	253.00	1.00	0.08	0.15	
			N472429	253.00	254.00	1.00	0.03	0.11	
			N472430	254.00	255.00	1.00	0.11	0.18	
			N472432	255.00	256.00	1.00	0.09	0.13	
			N472433	256.00	257.00	1.00	0.02	0.05	
			N472434	257.00	258.00	1.00	0.04	0.05	
			N472436	258.00	259.00	1.00	0.04	0.06	
			N472437	259.00	260.00	1.00	0.02	0.04	
			N472438	260.00	261.00	1.00	0.03	0.28	
			N472439	261.00	262.00	1.00	0.04	0.14	
			N472440	262.00	263.00	1.00	0.05	0.06	
			N472441	263.00	264.00	1.00	0.04	0.08	
			N472442	264.00	265.00	1.00	0.02	0.08	
			N472443	265.00	266.00	1.00	0.01	0.1	
			N472445	266.00	267.00	1.00	0.01	0.14	
			N472446	267.00	268.00	1.00	0.02	0.16	
			N472447	268.00	269.00	1.00	0.01	0.04	
			N472448	269.00	270.00	1.00	0.01	0.09	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	252.00	15/06/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545635.2	682917.1			Reflex APS	17/06/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.80	46.40		-49.80	Chibougamau Diamond Drilling	17/06/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	192	*Casing Pulled*	*Casing (1)*	60.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test The East Pipe from the southwest	This hole intersected ~92m of Graphitic Breccia from 86.00m to 178.40m. From 61.00m to 252.00m the assays averaged 3.82% Cg over 191.00m; within this intersection a higher grade graphite zone from 61.00m to 211.60m averaged 4.78% Cg over 150.60m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
69.00			52.3	43.3	-50.8	-50.8	☑	Reflex EZ	56662	
72.00			52.5	43.5	-50.8	-50.8	☑	Reflex EZ	56381	
75.00			53.1	44.1	-51	-51	☑	Reflex EZ	56337	
78.00			53.2	44.2	-50.8	-50.8	☑	Reflex EZ	56303	
81.00			52.8	43.8	-50.8	-50.8	☑	Reflex EZ	56259	
84.00			53.4	44.4	-50.9	-50.9	☑	Reflex EZ	56280	
87.00			53.1	44.1	-50.8	-50.8	☑	Reflex EZ	56202	
90.00			53	44	-50.7	-50.7	☑	Reflex EZ	56247	
93.00			52.9	43.9	-50.8	-50.8	☑	Reflex EZ	56248	
96.00			52.9	43.9	-50.9	-50.9	☑	Reflex EZ	56283	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
99.00			53.2	44.2	-50.7	-50.7	☑	Reflex EZ	56252	
102.00			53.2	44.2	-50.9	-50.9	☑	Reflex EZ	56288	
105.00			52.9	43.9	-50.8	-50.8	☑	Reflex EZ	56262	
108.00			53.7	44.7	-51	-51	☑	Reflex EZ	56269	
111.00			53.7	44.7	-50.9	-50.9	☑	Reflex EZ	56267	
114.00			53	44	-50.8	-50.8	☑	Reflex EZ	56258	
117.00			53.8	44.8	-51	-51	☑	Reflex EZ	56264	
120.00			53.2	44.2	-50.8	-50.8	☑	Reflex EZ	56250	
123.00			53.6	44.6	-51	-51	☑	Reflex EZ	56274	
126.00			53.8	44.8	-50.9	-50.9	☑	Reflex EZ	56277	
129.00			53.5	44.5	-50.8	-50.8	☑	Reflex EZ	56264	
132.00			53.5	44.5	-50.8	-50.8	☑	Reflex EZ	56259	
135.00			53.3	44.3	-50.7	-50.7	☑	Reflex EZ	56250	
138.00			53.9	44.9	-51	-51	☑	Reflex EZ	56283	
141.00			53.1	44.1	-50.8	-50.8	☑	Reflex EZ	56274	
144.00			53.7	44.7	-50.8	-50.8	☑	Reflex EZ	56287	
147.00			53.9	44.9	-50.9	-50.9	☑	Reflex EZ	56287	
150.00			53.8	44.8	-50.8	-50.8	☑	Reflex EZ	56295	
153.00			54	45	-50.9	-50.9	☑	Reflex EZ	56300	
156.00			54	45	-51	-51	☑	Reflex EZ	56332	
159.00			53.5	44.5	-50.8	-50.8	☑	Reflex EZ	56282	
162.00			53.8	44.8	-50.7	-50.7	☑	Reflex EZ	56322	
165.00			54.1	45.1	-51.1	-51.1	☑	Reflex EZ	56318	
168.00			53.6	44.6	-50.7	-50.7	☑	Reflex EZ	56300	
171.00			53.4	44.4	-50.7	-50.7	☑	Reflex EZ	56295	
174.00			53.4	44.4	-50.8	-50.8	☑	Reflex EZ	56310	
177.00			53.8	44.8	-50.8	-50.8	☑	Reflex EZ	56291	
180.00			53.8	44.8	-50.9	-50.9	☑	Reflex EZ	56319	
183.00			54	45	-50.8	-50.8	☑	Reflex EZ	56294	
186.00			53.7	44.7	-50.9	-50.9	☑	Reflex EZ	56313	
189.00			53.6	44.6	-50.8	-50.8	☑	Reflex EZ	56286	
192.00			54.2	45.2	-51	-51	☑	Reflex EZ	56310	
195.00			53.6	44.6	-50.8	-50.8	☑	Reflex EZ	56328	
198.00			54.1	45.1	-50.9	-50.9	☑	Reflex EZ	56324	
201.00			51.5	42.5	-50	-50	☑	Reflex EZ	56286	
204.00			54.4	45.4	-50.9	-50.9	☑	Reflex EZ	56312	
207.00			54.4	45.4	-50.9	-50.9	☑	Reflex EZ	56222	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			53.7	44.7	-50.7	-50.7	☑	Reflex EZ	56281	
213.00			53.9	44.9	-50.7	-50.7	☑	Reflex EZ	56286	
216.00			54.3	45.3	-50.7	-50.7	☑	Reflex EZ	56228	
219.00			54.6	45.6	-51	-51	☑	Reflex EZ	56195	
222.00			54.7	45.7	-51	-51	☑	Reflex EZ	56331	
225.00			54.6	45.6	-50.8	-50.8	☑	Reflex EZ	56321	
228.00			54.2	45.2	-50.7	-50.7	☑	Reflex EZ	56259	
231.00			54.5	45.5	-50.7	-50.7	☑	Reflex EZ	56306	
234.00			54.6	45.6	-50.9	-50.9	☑	Reflex EZ	56289	
237.00			54.3	45.3	-50.8	-50.8	☑	Reflex EZ	56340	
240.00			54.7	45.7	-50.7	-50.7	☑	Reflex EZ	56308	
243.00			54.9	45.9	-50.9	-50.9	☑	Reflex EZ	56302	
246.00			54.6	45.6	-50.9	-50.9	☑	Reflex EZ	56308	
249.00			54.2	45.2	-50.6	-50.6	☑	Reflex EZ	56263	
252.00			54.8	45.8	-50.8	-50.8	☑	Reflex EZ	56328	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	48.70	**OB Overburden** From 0.0 to 47.2 unknown overburden, muskeg, mud. From 47.2 to 48.7m boulders of limestone, granite and mafic rock 5-30cm long grounded sections of core.							
48.70	57.20	**SED Sediment** Beige to greyish-beige locally vuggy limestone changes to brownish-grey, greenish-grey siltstone from 55.1 to 57.2m.							
57.20	81.10	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown, medium grained, massive syenite. Paleo-weathering at the top from 57.2 to 58.05m. Fault gouge from 57.6 to 58.05m. Weak graphite overprinting as occasional fracture filling graphite veinlets.	N472449	61.00	62.00	1.00	0.24	0.09	
			N472450	62.00	63.00	1.00	0.07	0.17	
			N472452	63.00	64.00	1.00	0.06	0.23	
			N472453	64.00	65.00	1.00	0.05	0.24	
			N472454	65.00	66.00	1.00	0.14	0.1	
			N472456	66.00	67.00	1.00	0.13	0.1	
			N472457	67.00	68.00	1.00	0.13	0.16	
			N472458	68.00	69.00	1.00	0.28	0.12	2.61
			N472459	69.00	70.00	1.00	0.07	0.17	2.6
			N472460	70.00	71.00	1.00	0.19	0.18	2.62
			N472461	71.00	72.00	1.00	0.05	0.17	2.62
			N472462	72.00	73.00	1.00	0.4	0.06	2.58
			N472463	73.00	74.00	1.00	0.1	0.22	
			N472465	74.00	75.00	1.00	0.17	0.18	
			N472466	75.00	76.00	1.00	0.11	0.24	
			N472467	76.00	77.00	1.00	0.17	0.19	
			N472468	77.00	78.00	1.00	0.26	0.12	
			N472469	78.00	79.00	1.00	0.19	0.1	
			N472470	79.00	80.00	1.00	0.43	0.1	
			N472472	80.00	81.10	1.10	0.53	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
81.10	83.90	**MD Mafic Dyke** Green to greyish-green, fine grained, massive mafic dyke. No visible graphite. Upper contact sharp at 40 dca. Lower contact sharp at 80 dca.	N472473	81.10	82.00	0.90	0.01	0.03	
			N472474	82.00	83.00	1.00	0.04	0.1	
			N472476	83.00	83.90	0.90	0.07	0.18	
83.90	86.00	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown, medium grained, massive syenite. Weak graphite overprinting as occasional fracture filling graphite veinlets. Broken core at lower contact.	N472477	83.90	85.00	1.10	0.58	0.09	
			N472478	85.00	86.00	1.00	1.42	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
86.00	- 133.80	**GRPBX Graphitic Breccia** Dark grey, medium grained, brecciated syenite. Good graphite content as fracture filling graphite veinlets and as graphite flooding in the matrix. Trace sulphides as vuggy pyrite blebs. Reddish-brown syenite fragments 5-30cm. From 90.6 to 92m massive syenite section with no visible graphite. Good graphite content in the matrix from 124 to 133m. Trace sulphides as vuggy pyrite blebs 1-4mm. Trace carbonate as hairline fracture filling calcite veinlets.	N472479	86.00	87.00	1.00	9.8	0.02	
			N472480	87.00	88.00	1.00	10.6	0.03	
			N472481	88.00	89.00	1.00	9.59	0.02	
			N472482	89.00	90.00	1.00	12.3	0.02	
			N472483	90.00	91.00	1.00	6.77	0.03	
			N472485	91.00	92.00	1.00	0.66	0.04	
			N472486	92.00	93.00	1.00	9.71	0.03	
			N472487	93.00	94.00	1.00	3.58	0.03	
			N472488	94.00	95.00	1.00	7.85	0.03	
			N472489	95.00	96.00	1.00	6.13	0.04	
			N472490	96.00	97.00	1.00	10.5	0.03	
			N472492	97.00	98.00	1.00	9.75	0.05	
			N472493	98.00	99.00	1.00	11.2	0.08	
			N472494	99.00	100.00	1.00	7.57	0.09	
			N472496	100.00	101.00	1.00	9.18	0.08	
			N472497	101.00	102.00	1.00	7.23	0.1	
			N472498	102.00	103.00	1.00	7.63	0.12	
			N472499	103.00	104.00	1.00	5.15	0.05	2.57
			N472500	104.00	105.00	1.00	5.87	0.06	2.57
			N472501	105.00	106.00	1.00	10.2	0.11	2.54
			N472502	106.00	107.00	1.00	11.8	0.1	2.53
			N472503	107.00	108.00	1.00	7.05	0.06	2.6
			N472505	108.00	109.00	1.00	10.2	0.09	
			N472506	109.00	110.00	1.00	9.67	0.06	
			N472507	110.00	111.00	1.00	4.87	0.13	
			N472508	111.00	112.00	1.00	6.21	0.12	
			N472509	112.00	113.00	1.00	9.93	0.11	
			N472510	113.00	114.00	1.00	2.89	0.21	
			N472512	114.00	115.00	1.00	10.2	0.29	
			N472513	115.00	116.00	1.00	11.3	0.33	
			N472514	116.00	117.00	1.00	3.62	0.16	
			N472516	117.00	118.00	1.00	9.4	0.19	
			N472517	118.00	119.00	1.00	6.74	0.18	
			N472518	119.00	120.00	1.00	11.6	0.17	
			N472519	120.00	121.00	1.00	4.28	0.14	
			N472520	121.00	122.00	1.00	2.44	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N472521	122.00	123.00	1.00	2.52	0.11	
			N472522	123.00	124.00	1.00	9.87	0.24	
			N472523	124.00	125.00	1.00	15.9	0.95	
			N472525	125.00	126.00	1.00	7.71	0.2	
			N472526	126.00	127.00	1.00	10.4	0.12	
			N472527	127.00	128.00	1.00	7.95	0.32	
			N472528	128.00	129.00	1.00	11.3	0.35	
			N472529	129.00	130.00	1.00	6.99	0.23	
			N472530	130.00	131.00	1.00	7.79	0.31	
			N472532	131.00	132.00	1.00	10.6	0.2	
			N472533	132.00	133.00	1.00	11.8	0.22	
			N472534	133.00	133.80	0.80	13.2	0.34	
133.80	138.00	**SYEN Syenite**							
		Reddish-brown to greenish-grey, medium grained, weakly foliated syenite. No visible graphite.	N472536	133.80	134.90	1.10	0.5	0.15	
			N472537	134.90	136.00	1.10	0.23	0.16	
			N472538	136.00	137.00	1.00	0.22	0.16	
			N472539	137.00	138.00	1.00	0.35	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
138.00	167.15	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite. Good graphite in the matrix and as fracture filling veinlets from 143 to 161.7m. Fault zone with pebble size grounded core fragments from 150.7 to 151.10m.	N472540	138.00	139.00	1.00	3.62	0.27	
			N472541	139.00	140.00	1.00	11.3	0.29	
			N472542	140.00	141.00	1.00	10.6	0.35	
			N472543	141.00	142.00	1.00	11.3	0.3	
			N472545	142.00	143.00	1.00	7.12	0.35	
			N472546	143.00	144.00	1.00	4.64	0.25	
			N472547	144.00	145.00	1.00	15.3	0.27	
			N472548	145.00	146.00	1.00	7.54	0.45	
			N472549	146.00	147.00	1.00	3.79	0.26	
			N472550	147.00	148.00	1.00	8.91	0.2	
			N472552	148.00	149.00	1.00	3.52	0.26	
			N472553	149.00	150.00	1.00	7.42	0.19	
			N472554	150.00	151.00	1.00	3.17	0.23	
			N472556	151.00	152.00	1.00	10.6	0.32	
			N472557	152.00	153.00	1.00	13.5	0.25	
			N472558	153.00	154.00	1.00	7.73	0.25	
			N472559	154.00	155.00	1.00	8.56	0.2	
			N472560	155.00	156.00	1.00	13.3	0.35	
			N472561	156.00	157.00	1.00	5.55	0.29	
			N472562	157.00	158.00	1.00	7.82	0.23	
			N472563	158.00	159.00	1.00	5.86	0.24	
			N472565	159.00	160.00	1.00	4.31	0.25	
			N472566	160.00	161.00	1.00	3.17	0.25	
			N472567	161.00	162.00	1.00	13.6	0.49	
			N472568	162.00	163.00	1.00	3.33	0.21	
			N472569	163.00	164.00	1.00	10.4	0.26	
			N472570	164.00	165.00	1.00	7.98	0.26	
			N472572	165.00	166.00	1.00	8.94	0.31	
			N472573	166.00	167.15	1.15	9.69	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
167.15	172.35	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green, massive mafic dyke. Graphitic breccia section from 170 to 171m at low angle (5dca) to core axis. Good graphite as fracture filling graphite veinlets.	N472574	167.15	168.10	0.95	1.98	0.13	
			N472576	168.10	169.00	0.90	1.63	0.07	
			N472577	169.00	170.00	1.00	1.13	0.13	
			N472578	170.00	171.00	1.00	5.3	0.04	
			N472579	171.00	172.35	1.35	2.31	0.16	
172.35	173.50	**GRPBX Graphitic Breccia** Dark grey brecciated syenite, good graphite as flooding in the matrix and as fracture filling veinlets.	N472580	172.35	173.50	1.15	8	0.17	
173.50	174.05	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green, massive mafic dyke. Weak graphite overprinting.	N472581	173.50	174.05	0.55	2.43	0.06	
174.05	178.40	**GRPBX Graphitic Breccia** Dark grey to dark brownish syenite. Graphite mainly as fracture filling veinlets with short 15-20cm brecciated sections.	N472582	174.05	175.00	0.95	11	0.13	
			N472583	175.00	176.00	1.00	3.48	0.33	
			N472585	176.00	176.80	0.80	11.6	0.3	
			N472586	176.80	177.60	0.80	10.3	0.3	
			N472587	177.60	178.40	0.80	7.38	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
178.40	188.76	**SYENOP Syenite with Graphitic Overprinting** Medium grey to brownish-grey, massive syenite. Weak graphite overprint as locally fracture filling veinlets at 184.2m.	N472588	178.40	179.20	0.80	0.6	0.26	
			N472589	179.20	180.00	0.80	1.69	0.24	
			N472590	180.00	181.00	1.00	1.89	0.26	
			N472592	181.00	182.00	1.00	1.47	0.29	
			N472593	182.00	183.00	1.00	0.78	0.21	
			N472594	183.00	184.00	1.00	0.32	0.3	
			N472596	184.00	185.00	1.00	0.58	0.38	
			N472597	185.00	186.00	1.00	0.28	0.36	
			N472598	186.00	187.00	1.00	0.17	0.31	
			N472599	187.00	187.90	0.90	0.06	0.26	
			N472600	187.90	188.76	0.86	0.08	0.29	
188.76	189.36	**MD Mafic Dyke** Dark green, massive mafic dyke. Both contacts sharp at 90 dca. No visible graphite.	N472601	188.76	189.36	0.60	0.69	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
189.36 -	205.15	**SYEN Syenite** Light to medium grey, medium grained, massive syenite. No visible graphite.	N472602	189.36	190.20	0.84	1.33	0.23	
			N472603	190.20	191.00	0.80	0.47	0.4	
			N472605	191.00	192.00	1.00	1.63	0.29	
			N472606	192.00	193.00	1.00	1.4	0.39	
			N472607	193.00	194.00	1.00	1.9	0.31	
			N472608	194.00	195.00	1.00	0.47	0.34	
			N472609	195.00	196.00	1.00	0.21	0.33	
			N472610	196.00	197.00	1.00	0.42	0.3	
			N472612	197.00	198.00	1.00	0.07	0.3	
			N472613	198.00	199.00	1.00	0.13	0.21	
			N472614	199.00	200.00	1.00	0.04	0.19	
			N472616	200.00	201.00	1.00	0.06	0.21	
			N472617	201.00	202.00	1.00	0.05	0.33	
			N472618	202.00	203.00	1.00	0.12	0.22	
			N472619	203.00	204.00	1.00	0.19	0.31	
			N472620	204.00	205.15	1.15	0.17	0.3	
205.15 -	209.15	**MDOP Mafic Dyke with Graphitic Overprinting** Greenish-grey, fine grained, massive mafic dyke. Weak graphite overprinting as odd graphite veinlets. Upper contact 80 dca. Lower contact 70 dca.	N472621	205.15	206.10	0.95	1.56	0.53	
			N472622	206.10	207.00	0.90	1.24	0.39	
			N472623	207.00	208.00	1.00	0.48	0.22	
			N472625	208.00	209.15	1.15	1.03	0.18	
209.15 -	212.40	**SYEN Syenite** Light grey to pinkish-grey, medium grained, massive syenite. No visible graphite.	N472626	209.15	210.00	0.85	0.3	0.21	
			N472627	210.00	210.80	0.80	0.41	0.36	
			N472628	210.80	211.60	0.80	0.41	0.24	
			N472629	211.60	212.40	0.80	0.04	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
212.40	215.30	**ID Intermediate Dyke** Light grey to greenish-grey, massive, fine to medium grained intermediate dyke. No visible graphite. Both contacts sharp at 45 dca.	N472630	212.40	213.20	0.80	0.01	1.18	
			N472632	213.20	214.20	1.00	0.01	0.25	
			N472633	214.20	215.30	1.10	0.01	1.16	
215.30	233.65	**SYEN Syenite** Medium grained, massive light grey to pinkish grey syenite. No visible graphite.	N472634	215.30	216.20	0.90	0.12	0.11	
			N472636	216.20	217.10	0.90	0.01	0.25	
			N472637	217.10	218.00	0.90	0.01	0.24	
			N472638	218.00	219.00	1.00	0.01	0.29	
			N472639	219.00	220.00	1.00	0.01	0.31	
			N472640	220.00	221.00	1.00	0.11	0.25	
			N472641	221.00	222.00	1.00	0.15	0.21	
			N472642	222.00	223.00	1.00	0.03	0.39	
			N472643	223.00	224.00	1.00	0.04	0.37	
			N472645	224.00	225.00	1.00	0.14	0.32	
			N472646	225.00	226.00	1.00	0.13	0.36	
			N472647	226.00	227.00	1.00	0.07	0.44	
			N472648	227.00	228.00	1.00	0.18	0.41	
			N472649	228.00	229.00	1.00	0.06	0.37	
			N472650	229.00	230.00	1.00	0.02	0.22	
			N472652	230.00	231.00	1.00	0.01	0.25	
			N472653	231.00	232.00	1.00	0.11	0.38	
			N472654	232.00	232.80	0.80	0.02	0.32	
			N472656	232.80	233.65	0.85	0.08	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
233.65	238.10	**MDOP Mafic Dyke with Graphitic Overprinting** Medium grey to greenish-grey, fine grained, massive mafic dyke. Very weak graphite overprinting.	N472657	233.65	234.75	1.10	0.14	0.17	
			N472658	234.75	235.90	1.15	0.21	0.13	
			N472659	235.90	237.00	1.10	0.16	0.11	
			N472660	237.00	238.10	1.10	0.53	0.08	
238.10	252.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Very weak graphite overprinting a odd hairline fracture filling graphite veinlet at 242.7m. From 240.3 to 241.05m dark grey, fine grained, massive intermediate dyke. No visible graphite. EOH 252.0m	N472661	238.10	239.23	1.13	0.19	0.3	
			N472662	239.23	240.30	1.07	0.24	0.21	
			N472663	240.30	241.05	0.75	0.18	0.15	
			N472665	241.05	242.00	0.95	0.09	0.09	
			N472666	242.00	243.00	1.00	0.8	0.26	
			N472667	243.00	244.00	1.00	0.5	0.33	
			N472668	244.00	245.00	1.00	0.59	0.11	
			N472669	245.00	246.00	1.00	0.38	0.71	
			N472670	246.00	247.00	1.00	0.2	0.09	
			N472672	247.00	248.00	1.00	0.14	0.07	
			N472673	248.00	249.00	1.00	0.53	0.18	
			N472674	249.00	250.00	1.00	1.6	0.2	
			N472676	250.00	251.00	1.00	1.31	0.24	
			N472677	251.00	252.00	1.00	0.2	0.34	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	213.00	17/06/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545801.6	682981.5			Reflex APS		19/06/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	123.90	224.50		-45.90	Chibougamau Diamond Drilling		20/06/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	147	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Chibougamau Diamond Drilling Ltd	

Purpose	*Results*	*Comments*
Test the East Pipe at depth from the Northeast	This hole intersected graphitic breccia from 62.25m to 138.05m for 75.8m downhole. The assays from 62.25m to 213.00m averaged 3.88% Cg over 150.75m; within this intersection a higher grade graphite zone from 62.25m to 164.00m averaged 5.53% Cg over 101.75m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			234.4	225.4	-49.9	-49.9	☑	Reflex EZ	56519	
75.00			234.3	225.3	-49.9	-49.9	☑	Reflex EZ	56405	
78.00			234.2	225.2	-49.9	-49.9	☑	Reflex EZ	56406	
81.00			234.3	225.3	-49.9	-49.9	☑	Reflex EZ	56404	
84.00			233.6	224.6	-50	-50	☑	Reflex EZ	56371	
87.00			233.9	224.9	-50	-50	☑	Reflex EZ	56400	
90.00			233.5	224.5	-50	-50	☑	Reflex EZ	56367	
93.00			233.1	224.1	-49.9	-49.9	☑	Reflex EZ	56342	
96.00			234.2	225.2	-49.9	-49.9	☑	Reflex EZ	56318	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
99.00			233.5	224.5	-49.9	-49.9	☑	Reflex EZ	56327	
102.00			233.5	224.5	-50.1	-50.1	☑	Reflex EZ	56344	
105.00			233.6	224.6	-50	-50	☑	Reflex EZ	56339	
108.00			233.6	224.6	-49.9	-49.9	☑	Reflex EZ	56323	
111.00			234.7	225.7	-49.8	-49.8	☑	Reflex EZ	56356	
114.00			234	225	-49.9	-49.9	☑	Reflex EZ	56358	
117.00			233.7	224.7	-49.8	-49.8	☑	Reflex EZ	56316	
120.00			234.7	225.7	-49.8	-49.8	☑	Reflex EZ	56323	
123.00			233.1	224.1	-50	-50	☑	Reflex EZ	56347	
126.00			234.9	225.9	-49.9	-49.9	☑	Reflex EZ	56325	
129.00			233.5	224.5	-50.1	-50.1	☑	Reflex EZ	56350	
132.00			234.4	225.4	-50	-50	☑	Reflex EZ	56312	
135.00			234.9	225.9	-49.9	-49.9	☑	Reflex EZ	56361	
138.00			233.6	224.6	-50	-50	☑	Reflex EZ	56353	
141.00			234.9	225.9	-49.9	-49.9	☑	Reflex EZ	56368	
144.00			232.1	223.1	-50.5	-50.5	☑	Reflex EZ	56341	
147.00			235	226	-49.9	-49.9	☑	Reflex EZ	56364	
150.00			233.8	224.8	-50.1	-50.1	☑	Reflex EZ	56337	
153.00			235.3	226.3	-49.9	-49.9	☑	Reflex EZ	56356	
156.00			233.7	224.7	-50	-50	☑	Reflex EZ	56354	
159.00			234.9	225.9	-50	-50	☑	Reflex EZ	56344	
162.00			235.1	226.1	-50	-50	☑	Reflex EZ	56358	
165.00			235.3	226.3	-49.9	-49.9	☑	Reflex EZ	56337	
168.00			233.7	224.7	-50.2	-50.2	☑	Reflex EZ	56348	
171.00			235.6	226.6	-49.9	-49.9	☑	Reflex EZ	56374	
174.00			234.8	225.8	-50.1	-50.1	☑	Reflex EZ	56355	
177.00			235.5	226.5	-50	-50	☑	Reflex EZ	56372	
180.00			235.5	226.5	-50	-50	☑	Reflex EZ	56330	
183.00			227.7	218.7	-52.7	-52.7	☑	Reflex EZ	56364	
186.00			236.1	227.1	-50	-50	☑	Reflex EZ	56382	
189.00			235.1	226.1	-50.2	-50.2	☑	Reflex EZ	56361	
192.00			234.5	225.5	-50.1	-50.1	☑	Reflex EZ	56374	
195.00			236.2	227.2	-50	-50	☑	Reflex EZ	56409	
198.00			235.3	226.3	-50.2	-50.2	☑	Reflex EZ	56368	
201.00			236.7	227.7	-49.9	-49.9	☑	Reflex EZ	56401	
204.00			236.8	227.8	-50	-50	☑	Reflex EZ	56416	
207.00			236.7	227.7	-50.1	-50.1	☑	Reflex EZ	56436	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			235.1	226.1	-50.2	-50.2	☑	Reflex EZ	56390	
213.00			235.7	226.7	-50.2	-50.2	☑	Reflex EZ	56410	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	58.35	**OB Overburden** From 0 to 56.8 unknown overburden, muskeg, mud, sand. From 56.8 to 58.35 boulders of limestone and intrusive rock, and mud.							
58.35	62.25	**SED Sediment** Beige to greyish-beige limestone, locally vuggy. Grounded pieces of core 5-25cm long.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
62.25	112.90	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite good graphite content in the matrix and as fracture filling. 5cm fault gouge (green mud) at 79.05m. Fracture filing graphite veinlets from 82 to 90m. Good graphite in the matrix from 92 to 107m.	N472678	62.25	63.10	0.85	11.1	0.18	
			N472679	63.10	64.10	1.00	1.32	0.72	
			N472680	64.10	65.00	0.90	4.58	0.55	
			N472681	65.00	66.00	1.00	2.46	0.15	
			N472682	66.00	67.00	1.00	3.81	0.07	
			N472683	67.00	68.00	1.00	8.54	0.05	
			N472685	68.00	69.00	1.00	5.92	0.04	
			N472686	69.00	70.00	1.00	8.51	0.03	
			N472687	70.00	71.00	1.00	8.07	0.03	
			N472688	71.00	72.00	1.00	8.06	0.02	
			N472689	72.00	73.00	1.00	8.44	0.07	
			N472690	73.00	74.00	1.00	8.73	0.04	
			N472692	74.00	75.00	1.00	13.7	0.03	
			N472693	75.00	76.00	1.00	9.68	0.02	
			N472694	76.00	77.00	1.00	4.69	0.02	
			N472696	77.00	78.00	1.00	10.3	0.02	
			N472697	78.00	79.00	1.00	6.47	0.02	
			N472698	79.00	80.00	1.00	8.9	0.02	
			N472699	80.00	81.00	1.00	7.34	0.02	
			N472700	81.00	82.00	1.00	5.58	0.03	
			N472701	82.00	83.00	1.00	5.2	0.02	
			N472702	83.00	84.00	1.00	9.2	0.01	
			N472703	84.00	85.00	1.00	5.63	0.03	
			N472705	85.00	86.00	1.00	3.97	0.04	
			N472706	86.00	87.00	1.00	4.11	0.02	
			N472707	87.00	88.00	1.00	7.23	0.01	
			N472708	88.00	89.00	1.00	9.02	0.02	
			N472709	89.00	90.00	1.00	8.88	0.02	
			N472710	90.00	91.00	1.00	6.15	0.02	
			N472712	91.00	92.00	1.00	5.59	0.02	
			N472713	92.00	93.00	1.00	7.35	0.02	
			N472714	93.00	94.00	1.00	9.94	0.01	
			N472716	94.00	95.00	1.00	9.46	0.01	
			N472717	95.00	96.00	1.00	9.02	0.03	
			N472718	96.00	97.00	1.00	5.95	0.06	
			N472719	97.00	98.00	1.00	6.2	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N472720	98.00	99.00	1.00	10.1	0.02	
			N472721	99.00	100.00	1.00	9.34	0.01	
			N472722	100.00	101.00	1.00	3.48	0.02	
			N472723	101.00	102.00	1.00	8.77	0.01	
			N472725	102.00	103.00	1.00	2.98	0.1	
			N472726	103.00	104.00	1.00	3.14	0.12	2.56
			N472727	104.00	105.00	1.00	5.43	0.01	2.61
			N472728	105.00	106.00	1.00	7.57	0.01	2.61
			N472729	106.00	107.00	1.00	8.38	0.005	2.52
			N472730	107.00	108.00	1.00	5.21	0.01	2.55
			N472732	108.00	109.00	1.00	9.04	0.005	
			N472733	109.00	110.00	1.00	4.86	0.005	
			N472734	110.00	111.00	1.00	8.82	0.01	
			N472736	111.00	112.00	1.00	7.73	0.02	
			N472737	112.00	112.90	0.90	8.58	0.02	
112.90	114.70	**FLT Fault Zone** Fault zone. Mixer of clay and fractured graphitic breccia. Angular fragments from 3-5cm. Good graphite content.	N472738	112.90	114.00	1.10	6.94	0.1	
			N472739	114.00	114.70	0.70	7.99	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
114.70	138.05	**GRPBX Graphitic Breccia** Dark grey with reddish-brown sections graphitic breccia. Fractured core sections from 115.7 to 116m; 119.5 to 119.75n; 121.5 to 121.75n. Good graphite content in the matrix and as fracture filling veinlets. Lower contact sharp at 30 dca.	N472740	114.70	115.90	1.20	6.58	0.01	
			N472741	115.90	117.00	1.10	3.11	0.07	
			N472742	117.00	118.00	1.00	7.22	0.02	
			N472743	118.00	119.00	1.00	12.2	0.01	
			N472745	119.00	120.00	1.00	8.03	0.02	
			N472746	120.00	121.00	1.00	9.45	0.01	
			N472747	121.00	122.00	1.00	7.55	0.01	
			N472748	122.00	123.00	1.00	1.49	0.03	
			N472749	123.00	124.00	1.00	1.51	0.04	
			N472750	124.00	125.00	1.00	8.8	0.02	
			N472752	125.00	126.00	1.00	4.51	0.07	
			N472753	126.00	127.00	1.00	4.51	0.04	
			N472754	127.00	128.00	1.00	3.91	0.04	
			N472756	128.00	129.00	1.00	4.52	0.04	
			N472757	129.00	130.00	1.00	5.75	0.04	
			N472758	130.00	131.00	1.00	4.31	0.04	
			N472759	131.00	132.00	1.00	6.93	0.11	
			N472760	132.00	133.00	1.00	5.77	0.13	
			N472761	133.00	134.00	1.00	2.96	0.14	
			N472762	134.00	135.00	1.00	2.63	0.12	
			N472763	135.00	136.00	1.00	9.51	0.03	
			N472765	136.00	137.00	1.00	11.6	0.11	
			N472766	137.00	138.05	1.05	9.78	0.12	
138.05	143.40	**SYEN Syenite** Medium grey to reddish-grey, massive syenite. No visible graphite.	N472767	138.05	139.00	0.95	1.21	0.12	
			N472768	139.00	140.00	1.00	0.4	0.22	
			N472769	140.00	141.00	1.00	0.91	0.15	
			N472770	141.00	142.20	1.20	0.36	0.16	
			N472772	142.20	143.40	1.20	0.58	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
143.40 -	145.10	**MD Mafic Dyke** Greenish-grey, fine grained massive mafic dyke. No visible graphite. Upper contact sharp at 40 dca. Lower contact sharp at 50 dca.	N472773	143.40	144.30	0.90	0.06	0.05	
			N472774	144.30	145.10	0.80	0.1	0.05	
145.10 -	157.65	**SYENOP Syenite with Graphitic Overprinting** Medium grey, massive syenite with up to 20% graphitic breccia as several brecciated sections 20-50cm long. Moderate graphite content. Brecciated sections at upper contact, at 146m, 153.6m, 154.4m to 154.8m; 156.4 to 157.1m and 157.3 to 157.65m.	N472776	145.10	146.00	0.90	2.74	0.17	
			N472777	146.00	147.00	1.00	2.22	0.21	
			N472778	147.00	148.00	1.00	0.59	0.21	
			N472779	148.00	149.00	1.00	0.86	0.23	
			N472780	149.00	150.00	1.00	1.06	0.22	
			N472781	150.00	151.00	1.00	1.04	0.19	
			N472782	151.00	152.00	1.00	0.81	0.25	
			N472783	152.00	153.00	1.00	0.48	0.26	
			N472785	153.00	154.00	1.00	2.48	0.18	
			N472786	154.00	155.00	1.00	5.77	0.22	
			N472787	155.00	156.00	1.00	0.6	0.25	
			N472788	156.00	157.00	1.00	6.57	0.22	
			N472789	157.00	157.65	0.65	6.28	0.64	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
157.65	185.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to brownish-grey, medium grained, massive syenite with very weak graphite overprinting as isolated graphite veinlets at 162.7, 177.9, 179.5 and 184.5m.	N472790	157.65	158.90	1.25	0.93	0.27	
			N472792	158.90	160.00	1.10	1.48	0.25	
			N472793	160.00	161.00	1.00	0.74	0.24	
			N472794	161.00	162.00	1.00	0.9	0.16	
			N472796	162.00	163.00	1.00	5.88	0.1	
			N472797	163.00	164.00	1.00	1.75	0.19	
			N472798	164.00	165.00	1.00	0.33	0.17	
			N472799	165.00	166.00	1.00	0.44	0.18	
			N472800	166.00	167.00	1.00	0.46	0.19	
			N472801	167.00	168.00	1.00	0.27	0.22	
			N472802	168.00	169.00	1.00	0.72	0.31	
			N472803	169.00	170.00	1.00	0.36	0.26	
			N472805	170.00	171.00	1.00	0.28	0.23	
			N472806	171.00	172.00	1.00	0.55	0.32	
			N472807	172.00	173.00	1.00	0.29	0.23	
			N472808	173.00	174.00	1.00	0.46	0.25	
			N472809	174.00	175.00	1.00	0.3	0.34	
			N472810	175.00	176.00	1.00	0.19	0.28	
			N472812	176.00	177.00	1.00	0.21	0.35	
			N472813	177.00	178.00	1.00	0.32	0.3	
			N472814	178.00	179.00	1.00	0.78	0.34	
			N472816	179.00	180.00	1.00	0.8	0.38	
			N472817	180.00	181.00	1.00	0.27	0.31	
			N472818	181.00	182.00	1.00	0.35	0.32	
			N472819	182.00	183.00	1.00	0.69	0.35	
			N472820	183.00	184.00	1.00	0.76	0.22	
			N472821	184.00	185.00	1.00	0.65	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
185.00	207.80	**SYEN Syenite** Medium grey to reddish-grey, medium to coarse grained, massive syenite. No visible graphite.	N472822	185.00	186.00	1.00	0.71	0.34	
			N472823	186.00	187.00	1.00	0.58	0.3	
			N472825	187.00	188.00	1.00	0.78	0.35	
			N472826	188.00	189.00	1.00	0.43	0.31	2.62
			N472827	189.00	190.00	1.00	0.42	0.28	2.64
			N472828	190.00	191.00	1.00	0.61	0.29	2.63
			N472829	191.00	192.00	1.00	0.15	0.27	2.63
			N472830	192.00	193.00	1.00	0.17	0.22	2.62
			N472832	193.00	194.00	1.00	0.24	0.24	
			N472833	194.00	195.00	1.00	0.38	0.28	
			N472834	195.00	196.00	1.00	0.4	0.37	
			N472836	196.00	197.00	1.00	0.21	0.29	
			N472837	197.00	198.00	1.00	0.1	0.28	
			N472838	198.00	199.00	1.00	0.44	0.14	
			N472839	199.00	200.00	1.00	0.06	0.22	
			N472840	200.00	201.00	1.00	0.08	0.25	
			N472841	201.00	202.00	1.00	0.58	0.29	
			N472842	202.00	203.00	1.00	0.03	0.19	
			N472843	203.00	204.00	1.00	0.22	0.3	
			N472845	204.00	205.00	1.00	0.11	0.2	
			N472846	205.00	206.00	1.00	0.09	0.32	
			N472847	206.00	207.00	1.00	0.74	0.38	
			N472848	207.00	207.80	0.80	0.99	0.31	
207.80	208.83	**MD Mafic Dyke** Dark grey to greenish-grey, fine grained, massive mafic dyke. Upper contact sharp at 30 dca. Lower contact sharp at 60 dca. No visible graphite.	N472849	207.80	208.83	1.03	1	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
208.83	209.76	**SYENOP Syenite with Graphitic Overprinting** Medium grey, massive syenite weak graphite overprinting as hairline fracture filling graphite veinlet.	N472850	208.83	209.76	0.93	1.3	0.32	
209.76	210.64	**FD Felsic Dyke** Light pink, fine grained, massive felsic dyke of granitic composition. Both contacts sharp at 70 dca.	N472852	209.76	210.64	0.88	0.01	0.06	
210.64	213.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey, massive syenite. Weak graphite overprinting as hairline fracture filling graphite veinlets. EOH 213.0m	N472853	210.64	211.90	1.26	0.98	0.23	
			N472854	211.90	213.00	1.10	0.93	0.3	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD27 Canada Zone 16	None	Resource hole	617.63	20/06/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545566	682393.1			Reflex APS	28/06/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.90	50.50		-49.60	Chibougamau Diamond Drilling	28/06/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	551.63	*Casing Pulled*	*Casing (1)*	25.50	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*	66.00	Steel	☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test West Pipe at depth form the Southwest.	This hole intersected three graphitic breccia intervals from 100.57m to 220.98; from 256.29 to 317.76m and from 409.96m to 427.75m. From 100.57m to 317.76m, the assays averaged 2.44% Cg over 217.19m; within this intersection a higher grade graphite zone from 100.57m to 219.00m averaged 3.39% Cg over 118.43m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
78.00			57	48	-49.1	-49.1	☑	Reflex EZ	56870	
81.00			57	48	-48.9	-48.9	☑	Reflex EZ	56803	
84.00			56.6	47.6	-48.8	-48.8	☑	Reflex EZ	56772	
87.00			57	48	-49	-49	☑	Reflex EZ	56777	
90.00			56.7	47.7	-48.8	-48.8	☑	Reflex EZ	56679	
93.00			56.9	47.9	-48.8	-48.8	☑	Reflex EZ	56669	
96.00			56.8	47.8	-48.8	-48.8	☑	Reflex EZ	56656	
99.00			56.9	47.9	-48.8	-48.8	☑	Reflex EZ	56618	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
105.00			57.6	48.6	-49.1	-49.1	☑	Reflex EZ	56709	
108.00			57.5	48.5	-49.1	-49.1	☑	Reflex EZ	56717	
111.00			56.9	47.9	-48.8	-48.8	☑	Reflex EZ	56748	
114.00			57.3	48.3	-48.8	-48.8	☑	Reflex EZ	56699	
117.00			56.8	47.8	-48.8	-48.8	☑	Reflex EZ	56708	
120.00			57.3	48.3	-48.9	-48.9	☑	Reflex EZ	56700	
123.00			57.5	48.5	-48.9	-48.9	☑	Reflex EZ	56694	
126.00			57.1	48.1	-48.8	-48.8	☑	Reflex EZ	56681	
129.00			56.6	47.6	-48.6	-48.6	☑	Reflex EZ	56714	
132.00			56.9	47.9	-48.6	-48.6	☑	Reflex EZ	56680	
135.00			57.5	48.5	-48.7	-48.7	☑	Reflex EZ	56670	
138.00			57.3	48.3	-48.6	-48.6	☑	Reflex EZ	56679	
141.00			56.9	47.9	-48.4	-48.4	☑	Reflex EZ	56675	
144.00			57	48	-48.4	-48.4	☑	Reflex EZ	56690	
147.00			57.4	48.4	-48.6	-48.6	☑	Reflex EZ	56665	
150.00			56.7	47.7	-48.4	-48.4	☑	Reflex EZ	56699	
153.00			57.6	48.6	-48.8	-48.8	☑	Reflex EZ	56674	
156.00			57	48	-48.6	-48.6	☑	Reflex EZ	56681	
159.00			57.7	48.7	-48.8	-48.8	☑	Reflex EZ	56639	
162.00			57.2	48.2	-48.7	-48.7	☑	Reflex EZ	56650	
165.00			56.7	47.7	-48.5	-48.5	☑	Reflex EZ	56738	
168.00			56.4	47.4	-48.3	-48.3	☑	Reflex EZ	56690	
171.00			56.7	47.7	-48.4	-48.4	☑	Reflex EZ	56740	
174.00			56.7	47.7	-48.3	-48.3	☑	Reflex EZ	56699	
177.00			56.7	47.7	-48.3	-48.3	☑	Reflex EZ	56740	
180.00			57.1	48.1	-48.4	-48.4	☑	Reflex EZ	56743	
183.00			57	48	-48.2	-48.2	☑	Reflex EZ	56580	
186.00			56.6	47.6	-48.2	-48.2	☑	Reflex EZ	56676	
189.00			56.9	47.9	-48.2	-48.2	☑	Reflex EZ	56707	
192.00			57.3	48.3	-48.3	-48.3	☑	Reflex EZ	56650	
195.00			57.6	48.6	-48.3	-48.3	☑	Reflex EZ	56328	
198.00			56.9	47.9	-48.4	-48.4	☑	Reflex EZ	56677	
201.00			57.6	48.6	-48.3	-48.3	☑	Reflex EZ	56723	
204.00			56.2	47.2	-48.2	-48.2	☑	Reflex EZ	56600	
210.00			56.2	47.2	-48.3	-48.3	☑	Reflex EZ	56900	
219.00			58	49	-48.4	-48.4	☑	Reflex EZ	56293	
222.00			57	48	-48.2	-48.2	☑	Reflex EZ	56534	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
225.00			57.3	48.3	-48.2	-48.2	☑	Reflex EZ	56609	
228.00			57.1	48.1	-48.3	-48.3	☑	Reflex EZ	56440	
231.00			59	50	-48.1	-48.1	☑	Reflex EZ	56517	
234.00			58.9	49.9	-48.3	-48.3	☑	Reflex EZ	56884	
237.00			59	50	-48.1	-48.1	☑	Reflex EZ	56454	
240.00			58.8	49.8	-48.1	-48.1	☑	Reflex EZ	56561	
243.00			57.2	48.2	-48.1	-48.1	☑	Reflex EZ	57029	
246.00			58.5	49.5	-48	-48	☑	Reflex EZ	56893	
249.00			59.2	50.2	-48.2	-48.2	☑	Reflex EZ	56850	
252.00			58.4	49.4	-48.3	-48.3	☑	Reflex EZ	56738	
255.00			58.3	49.3	-48.2	-48.2	☑	Reflex EZ	56174	
258.00			57.4	48.4	-47.9	-47.9	☑	Reflex EZ	56680	
261.00			59.7	50.7	-48.1	-48.1	☑	Reflex EZ	56751	
264.00			58.3	49.3	-48.2	-48.2	☑	Reflex EZ	56712	
267.00			57.6	48.6	-47.9	-47.9	☑	Reflex EZ	56721	
270.00			57.7	48.7	-47.9	-47.9	☑	Reflex EZ	56745	
273.00			58.1	49.1	-48	-48	☑	Reflex EZ	56691	
276.00			57.6	48.6	-47.8	-47.8	☑	Reflex EZ	56654	
279.00			58	49	-47.9	-47.9	☑	Reflex EZ	56505	
282.00			58	49	-48.1	-48.1	☑	Reflex EZ	56740	
285.00			57.8	48.8	-48	-48	☑	Reflex EZ	56870	
288.00			57.9	48.9	-47.8	-47.8	☑	Reflex EZ	56869	
291.00			58.5	49.5	-47.8	-47.8	☑	Reflex EZ	56853	
294.00			57.9	48.9	-47.8	-47.8	☑	Reflex EZ	56709	
297.00			57.7	48.7	-47.7	-47.7	☑	Reflex EZ	56706	
300.00			58	49	-47.8	-47.8	☑	Reflex EZ	56529	
303.00			58.7	49.7	-47.9	-47.9	☑	Reflex EZ	56127	
309.00			57.7	48.7	-47.8	-47.8	☑	Reflex EZ	56781	
312.00			58	49	-47.7	-47.7	☑	Reflex EZ	56704	
315.00			58.3	49.3	-48	-48	☑	Reflex EZ	56781	
318.00			58.5	49.5	-48	-48	☑	Reflex EZ	56994	
321.00			57.7	48.7	-47.7	-47.7	☑	Reflex EZ	56712	
324.00			57.9	48.9	-47.7	-47.7	☑	Reflex EZ	56733	
327.00			59.5	50.5	-47.8	-47.8	☑	Reflex EZ	56531	
330.00			59.9	50.9	-47.6	-47.6	☑	Reflex EZ	56491	
333.00			58.2	49.2	-47.7	-47.7	☑	Reflex EZ	56733	
336.00			58.8	49.8	-47.6	-47.6	☑	Reflex EZ	56658	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
339.00			59.1	50.1	-47.6	-47.6	☑	Reflex EZ	56525	
342.00			58.5	49.5	-47.6	-47.6	☑	Reflex EZ	56522	
345.00			60.1	51.1	-47.8	-47.8	☑	Reflex EZ	56411	
348.00			58.9	49.9	-47.6	-47.6	☑	Reflex EZ	56580	
351.00			60.1	51.1	-47.6	-47.6	☑	Reflex EZ	56836	
354.00			59	50	-47.5	-47.5	☑	Reflex EZ	56753	
360.00			59	50	-47.5	-47.5	☑	Reflex EZ	56837	
363.00			59.1	50.1	-47.4	-47.4	☑	Reflex EZ	56745	
366.00			59.3	50.3	-47.4	-47.4	☑	Reflex EZ	56620	
369.00			59.9	50.9	-47.5	-47.5	☑	Reflex EZ	56276	
372.00			59.9	50.9	-47.4	-47.4	☑	Reflex EZ	56365	
375.00			58.6	49.6	-47.4	-47.4	☑	Reflex EZ	56520	
378.00			59.9	50.9	-47.6	-47.6	☑	Reflex EZ	56603	
381.00			60.3	51.3	-47.4	-47.4	☑	Reflex EZ	56167	
384.00			58.8	49.8	-47.4	-47.4	☑	Reflex EZ	56399	
387.00			59.7	50.7	-47.4	-47.4	☑	Reflex EZ	56531	
390.00			59.6	50.6	-47.4	-47.4	☑	Reflex EZ	56643	
393.00			58.2	49.2	-47.4	-47.4	☑	Reflex EZ	56545	
396.00			59	50	-47.4	-47.4	☑	Reflex EZ	56784	
399.00			60.7	51.7	-47.8	-47.8	☑	Reflex EZ	56690	
402.00			59.9	50.9	-47.4	-47.4	☑	Reflex EZ	56836	
405.00			59	50	-47.6	-47.6	☑	Reflex EZ	57261	
408.00			58.5	49.5	-47.4	-47.4	☑	Reflex EZ	57003	
414.00			59.3	50.3	-47.2	-47.2	☑	Reflex EZ	56851	
417.00			59.6	50.6	-47.2	-47.2	☑	Reflex EZ	56842	
420.00			60	51	-47.4	-47.4	☑	Reflex EZ	56845	
423.00			59.8	50.8	-47.3	-47.3	☑	Reflex EZ	56796	
426.00			59	50	-47	-47	☑	Reflex EZ	56816	
429.00			59.6	50.6	-47	-47	☑	Reflex EZ	56866	
435.00			59.2	50.2	-46.9	-46.9	☑	Reflex EZ	56952	
438.00			59	50	-46.9	-46.9	☑	Reflex EZ	56863	
441.00			58.9	49.9	-46.7	-46.7	☑	Reflex EZ	56901	
447.00			57.6	48.6	-46.4	-46.4	☑	Reflex EZ	56384	
450.00			59.6	50.6	-46.3	-46.3	☑	Reflex EZ	56777	
453.00			59.9	50.9	-46.7	-46.7	☑	Reflex EZ	56875	
456.00			59.7	50.7	-46.5	-46.5	☑	Reflex EZ	56891	
459.00			60.1	51.1	-46.4	-46.4	☑	Reflex EZ	56906	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
462.00			59.8	50.8	-46.3	-46.3	☑	Reflex EZ	56968	
465.00			59.6	50.6	-46.2	-46.2	☑	Reflex EZ	56828	
468.00			60.1	51.1	-46.3	-46.3	☑	Reflex EZ	56628	
471.00			59.8	50.8	-46.2	-46.2	☑	Reflex EZ	56696	
480.00			60.4	51.4	-46.2	-46.2	☑	Reflex EZ	56833	
483.00			59.6	50.6	-46.2	-46.2	☑	Reflex EZ	56941	
486.00			60.7	51.7	-46.2	-46.2	☑	Reflex EZ	56844	
489.00			60.7	51.7	-46.2	-46.2	☑	Reflex EZ	56578	
492.00			61.2	52.2	-46.2	-46.2	☑	Reflex EZ	56644	
495.00			60.7	51.7	-46.3	-46.3	☑	Reflex EZ	56676	
498.00			60.1	51.1	-46.3	-46.3	☑	Reflex EZ	56927	
501.00			61.2	52.2	-46.3	-46.3	☑	Reflex EZ	56980	
504.00			60.5	51.5	-46	-46	☑	Reflex EZ	57068	
507.00			60.9	51.9	-46.2	-46.2	☑	Reflex EZ	56951	
510.00			60.8	51.8	-45.9	-45.9	☑	Reflex EZ	56892	
513.00			61.6	52.6	-45.9	-45.9	☑	Reflex EZ	56838	
516.00			60.5	51.5	-45.9	-45.9	☑	Reflex EZ	56945	
519.00			60	51	-45.7	-45.7	☑	Reflex EZ	56843	
525.00			61.7	52.7	-45.7	-45.7	☑	Reflex EZ	56204	
528.00			61.3	52.3	-45.6	-45.6	☑	Reflex EZ	56844	
531.00			60.7	51.7	-45.7	-45.7	☑	Reflex EZ	56871	
534.00			61.6	52.6	-45.6	-45.6	☑	Reflex EZ	57010	
537.00			62	53	-45.7	-45.7	☑	Reflex EZ	56939	
540.00			62	53	-45.6	-45.6	☑	Reflex EZ	56885	
543.00			61	52	-45.4	-45.4	☑	Reflex EZ	56921	
546.00			60.8	51.8	-45.4	-45.4	☑	Reflex EZ	56952	
549.00			61.5	52.5	-45.5	-45.5	☑	Reflex EZ	56842	
552.00			61.9	52.9	-45.3	-45.3	☑	Reflex EZ	56790	
555.00			62	53	-45.6	-45.6	☑	Reflex EZ	57101	
558.00			62	53	-45.5	-45.5	☑	Reflex EZ	57034	
561.00			62	53	-45.5	-45.5	☑	Reflex EZ	56988	
564.00			62.6	53.6	-45.4	-45.4	☑	Reflex EZ	57211	
567.00			62.5	53.5	-45.4	-45.4	☑	Reflex EZ	57189	
570.00			60.1	51.1	-45.3	-45.3	☑	Reflex EZ	57110	
573.00			61.5	52.5	-45.3	-45.3	☑	Reflex EZ	56902	
576.00			61.8	52.8	-45.2	-45.2	☑	Reflex EZ	56921	
579.00			62	53	-45.3	-45.3	☑	Reflex EZ	56997	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
582.00			62.8	53.8	-45.5	-45.5	☑	Reflex EZ	56983	
585.00			61.9	52.9	-45.2	-45.2	☑	Reflex EZ	56851	
588.00			63.2	54.2	-45.2	-45.2	☑	Reflex EZ	57215	
591.00			62.9	53.9	-45.4	-45.4	☑	Reflex EZ	56909	
594.00			62.8	53.8	-45.1	-45.1	☑	Reflex EZ	56770	
597.00			63.3	54.3	-45	-45	☑	Reflex EZ	57088	
600.00			62.1	53.1	-45	-45	☑	Reflex EZ	56954	
603.00			63.3	54.3	-45.1	-45.1	☑	Reflex EZ	56968	
606.00			63.1	54.1	-45.1	-45.1	☑	Reflex EZ	56913	
609.00			63.6	54.6	-45.1	-45.1	☑	Reflex EZ	56921	
612.00			63.2	54.2	-45.2	-45.2	☑	Reflex EZ	56872	
615.00			62.8	53.8	-44.9	-44.9	☑	Reflex EZ	56627	
618.00			62.9	53.9	-44.9	-44.9	☑	Reflex EZ	56757	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	55.30	**OB Overburden** 0.00 to 25.50m HW casing. 0.00 to 66.00m. NW casing. Unknown overburden likely dirt and boulders.							
55.30	62.75	**SED Sediment** 55.30 to 57.00 Brown and soft agglomerate mudstone. 57.00 to 62.75 Limestone broken and blocky pieces from 2cm to 10 cm in size. 62.37 to 62.75m. Mud fault gouge unconformity. Lower contact at 90 dca.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
62.75	- 100.57	**SYEN Syenite** Dark grey and orange massive syenite gneiss. Very hard. Local 1mm calcite and malachite fracture filling. 68.20 1cm hematite fault gouge at 60 dca. 84.21 to 84.46 Graphite breccia around 1cm malachite fault gouge at 84.39m. Fault at 45 dca. Lower contact at 55dca. Lower contact at 57 dca.	N472856	62.75	64.00	1.25	0.12	0.01	
			N472857	64.00	65.00	1.00	0.12	0.02	
			N472858	65.00	66.00	1.00	0.17	0.01	
			N472859	66.00	67.00	1.00	0.19	0.05	
			N472860	67.00	68.00	1.00	0.11	0.02	
			N472861	68.00	69.00	1.00	0.22	0.02	
			N472862	69.00	70.00	1.00	0.17	0.02	
			N472863	70.00	71.00	1.00	0.16	0.04	
			N472865	71.00	72.00	1.00	0.13	0.04	
			N472866	72.00	73.00	1.00	0.1	0.06	
			N472867	73.00	74.00	1.00	0.32	0.03	
			N472868	74.00	75.00	1.00	0.21	0.04	
			N472869	75.00	76.00	1.00	0.16	0.05	
			N472870	76.00	77.00	1.00	0.29	0.09	
			N472871	76.00	77.00	1.00	0.31	0.11	
			N472872	77.00	78.00	1.00	0.21	0.04	
			N472873	78.00	79.00	1.00	0.18	0.05	
			N472874	79.00	80.00	1.00	0.24	0.03	
			N472876	80.00	81.00	1.00	0.11	0.02	
			N472877	81.00	82.00	1.00	0.13	0.03	
			N472878	82.00	83.00	1.00	0.13	0.03	
			N472879	83.00	84.00	1.00	0.13	0.06	
			N472880	84.00	84.50	0.50	1.51	0.05	
			N472881	84.50	85.00	0.50	0.19	0.15	
			N472882	85.00	86.00	1.00	0.16	0.05	
			N472883	86.00	87.00	1.00	0.19	0.07	
			N472885	87.00	88.00	1.00	0.21	0.14	
			N472886	88.00	89.00	1.00	0.07	0.84	
			N472887	89.00	90.00	1.00	0.04	1.95	
			N472888	90.00	91.00	1.00	0.01	1.07	
			N472889	91.00	92.00	1.00	0.05	0.06	
			N472891	92.00	93.00	1.00	0.1	0.05	
			N472890	92.00	93.00	1.00	0.07	0.06	
			N472892	93.00	94.00	1.00	0.12	0.05	
			N472893	94.00	95.00	1.00	0.1	0.06	
			N472894	95.00	96.00	1.00	0.09	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N472896	96.00	97.00	1.00	0.06	0.06	2.63
			N472897	97.00	98.00	1.00	0.08	0.09	2.61
			N472898	98.00	99.00	1.00	0.11	0.17	2.61
			N472899	99.00	100.00	1.00	0.1	0.08	2.6
			N472900	100.00	100.57	0.57	0.24	0.17	2.64
100.57	106.32	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. Lower contact appears to be with a boulder sized syenite piece at 31 dca.	N472901	100.57	101.00	0.43	6.81	0.15	
			N472902	101.00	102.00	1.00	3.13	0.21	
			N472903	102.00	103.00	1.00	2.71	0.13	
			N472905	103.00	104.00	1.00	3.82	0.16	
			N472906	104.00	105.00	1.00	5.44	0.29	
			N472907	105.00	106.32	1.32	3.14	0.18	
106.32	109.38	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange tinge massive and very hard syenite gneiss. Likely a large boulder piece of breccia. Lower contact at 53 dca.	N472908	106.32	107.30	0.98	1.06	0.18	
			N472909	107.30	108.30	1.00	0.27	0.15	
			N472911	108.30	109.38	1.08	0.25	0.08	
			N472910	108.30	109.38	1.08	0.25	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
109.38	115.96	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. Lower contact at 27 dca.	N472912	109.38	110.00	0.62	4.21	0.07	
			N472913	110.00	111.00	1.00	5.84	0.26	
			N472914	111.00	112.00	1.00	5.55	0.17	
			N472916	112.00	113.00	1.00	4.55	0.25	
			N472917	113.00	114.00	1.00	4.83	0.2	
			N472918	114.00	115.00	1.00	0.47	0.19	
			N472919	115.00	115.96	0.96	0.18	0.09	
115.96	117.08	**ID Intermediate Dyke** Fine grained grey and massive dyke. Lower contact at 63 dca.	N472920	115.96	117.08	1.12	0.03	0.09	
117.08	118.33	**GR Granite** Orange and medium grained massive dyke. Lower contact at 90. Unit is very fractured and likely a fault zone.	N472921	117.08	118.33	1.25	0.02	0.74	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
118.33	171.43	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. 144.49 to 144.81 Possible diorite intrusion or fragment. Light grey with 20% light green amphiboles. Upper contact at 77, lower contact at 110 dca. 145.15 to 145.18 Hematite vein at 53 dca. 146.33 to 148.71 Diorite salt and pepper medium grained texture. Upper contact at 123, lower contact at 110 dca. 148.74 to 148.90 Mafic dyke at 33 dca. 150.53 to 150.72 Mafic dyke. Upper contact at 120 dca, lower contact at 17 dca possible fragment. Lower contact sharp at 45 dca.							
			N472922	118.33	119.00	0.67	3.6	0.18	
			N472923	119.00	120.00	1.00	2.71	0.13	
			N472925	120.00	121.00	1.00	1.73	0.18	2.64
			N472926	121.00	122.00	1.00	0.6	0.18	2.62
			N472927	122.00	123.00	1.00	0.19	0.27	2.65
			N472928	123.00	124.00	1.00	1.78	0.26	2.61
			N472929	124.00	125.00	1.00	1.58	0.34	2.63
			N472930	125.00	126.00	1.00	4	0.2	2.61
			N472931	125.00	126.00	1.00	4.98	0.2	
			N472932	126.00	127.00	1.00	0.42	0.09	
			N472933	127.00	128.00	1.00	1.37	0.13	
			N472934	128.00	129.00	1.00	2.71	0.2	
			N472936	129.00	130.00	1.00	3.88	0.23	
			N472937	130.00	131.00	1.00	1.69	0.33	
			N472938	131.00	132.00	1.00	3.61	0.25	
			N472939	132.00	133.00	1.00	3.66	0.2	
			N472940	133.00	134.00	1.00	2.17	0.24	
			N472941	134.00	135.00	1.00	5.84	0.25	
			N472942	135.00	136.00	1.00	4.49	0.28	
			N472943	136.00	137.00	1.00	3.54	0.27	
			N472945	137.00	138.00	1.00	2.11	0.18	
			N472946	138.00	139.00	1.00	3.87	0.23	
			N472947	139.00	140.00	1.00	2.23	0.16	
			N472948	140.00	141.00	1.00	10.8	0.35	
			N472949	141.00	142.00	1.00	5.36	0.45	
			N472950	142.00	143.00	1.00	6.16	0.84	
			N472951	142.00	143.00	1.00	6.45	0.87	
			N472952	143.00	144.00	1.00	3.34	0.22	
			N472953	144.00	145.00	1.00	4.57	0.25	
			N472954	145.00	146.00	1.00	5.31	0.31	
			N472956	146.00	147.00	1.00	3.25	0.27	
			N472957	147.00	148.00	1.00	5.65	0.3	
			N472958	148.00	149.00	1.00	3.02	0.18	
			N472959	149.00	150.00	1.00	5.75	0.22	
			N472960	150.00	151.00	1.00	4.82	0.48	
			N472961	151.00	152.00	1.00	2.9	0.2	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N472962	152.00	153.00	1.00	5.07	0.2	
		N472963	153.00	154.00	1.00	2.66	0.31	
		N472965	154.00	155.00	1.00	5.25	0.31	
		N472966	155.00	156.00	1.00	6.71	0.21	
		N472967	156.00	157.00	1.00	5.51	0.3	
		N472968	157.00	158.00	1.00	6.21	0.3	
		N472969	158.00	159.00	1.00	5.59	0.34	
		N472971	159.00	160.00	1.00	4.39	0.27	
		N472970	159.00	160.00	1.00	4.27	0.26	
		N472972	160.00	161.00	1.00	9.41	0.42	
		N472973	161.00	162.00	1.00	4.09	0.18	
		N472974	162.00	163.00	1.00	3.46	0.25	
		N472976	163.00	164.00	1.00	3.21	0.64	
		N472977	164.00	165.00	1.00	2.54	0.15	
		N472978	165.00	166.00	1.00	4.57	0.35	
		N472979	166.00	167.00	1.00	7.09	0.28	
		N472980	167.00	168.00	1.00	2.05	0.62	
		N472981	168.00	169.00	1.00	5.69	0.31	
		N472982	169.00	170.00	1.00	7.81	0.31	
		N472983	170.00	171.00	1.00	5.69	0.23	
		N472985	171.00	171.43	0.43	9.06	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
171.43	184.77	**SYENOP Syenite with Graphitic Overprinting** Light grey/green with orange tinge. Massive and very hard. Unit has local graphite breccia and fracture filling. 176.21 to 176.32 Breccia at 48 dca. Lower contact irregular at 69 dca.	N472986	171.43	172.00	0.57	0.29	0.29	2.71
			N472987	172.00	173.00	1.00	0.6	0.11	2.66
			N472988	173.00	174.00	1.00	0.69	0.17	2.64
			N472989	174.00	175.00	1.00	0.97	0.07	2.71
			N472991	175.00	176.00	1.00	0.66	0.2	
			N472990	175.00	176.00	1.00	0.54	0.18	2.64
			N472992	176.00	177.00	1.00	1.09	0.4	
			N472993	177.00	178.00	1.00	2.06	0.28	
			N472994	178.00	179.00	1.00	1.32	0.23	
			N472996	179.00	180.00	1.00	1.27	0.8	
			N472997	180.00	181.00	1.00	1.09	0.34	
			N472998	181.00	182.00	1.00	0.95	0.32	
			N472999	182.00	183.00	1.00	0.46	0.2	
			N473000	183.00	184.00	1.00	0.43	0.16	
			N473401	184.00	184.77	0.77	0.54	0.13	
184.77	192.10	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. 184.80 to 184.94 Chlorite biotite dyke, Upper contact at 78, Lower contact at 60 dca. 188.10 to 188.40 Mafic dyke. Upper contact at 118, lower contact at 41 dca. 188.58 to 188.65 Mafic dyke at 41 dca. 188.90 to 189.00 Granite dyke at 160 dca. Lower contact sharp at 35 dca.	N473402	184.77	186.00	1.23	5.53	0.32	
			N473403	186.00	187.00	1.00	7.54	0.4	
			N473405	187.00	188.00	1.00	10.6	0.44	
			N473406	188.00	189.00	1.00	4.52	0.22	
			N473407	189.00	190.00	1.00	6.17	0.43	
			N473408	190.00	191.00	1.00	1.55	0.28	
			N473409	191.00	192.10	1.10	4	0.41	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.10	195.54	**SYENOP Syenite with Graphitic Overprinting** Light grey/green with orange tinge. Massive and very hard. Lower contact sharp at 63 dca.	N473411	192.10	193.00	0.90	0.06	0.06	
			N473410	192.10	193.00	0.90	0.05	0.06	
			N473412	193.00	194.00	1.00	0.01	0.05	
			N473413	194.00	195.00	1.00	0.01	0.12	
			N473414	195.00	195.54	0.54	0.1	0.11	
195.54	201.10	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. 198.02 to 198.39 Mafic porphyry. Fine grained matrix with coarse dark large phenocrysts crystals. Upper contact irregular at 90, lower contact sharp at 121 dca. 200.70 to 200.74 Chlorite biotite dyke, upper contact at 101 dca, lower contact at 43 dca. Lower contact gradational at 105? Dca.	N473416	195.54	196.00	0.46	2.44	0.12	
			N473417	196.00	197.00	1.00	2.59	0.16	
			N473418	197.00	198.00	1.00	5.19	0.67	
			N473419	198.00	199.00	1.00	2.47	0.37	
			N473420	199.00	200.00	1.00	6.47	0.28	
			N473421	200.00	201.11	1.11	4.47	0.39	
201.10	205.66	**MD Mafic Dyke** Dark grey/green mafic porphyry. Fine grained matrix of aphanitic diabase looking material with large amphibole amygdaloidal phenocrysts of 1-3mm in size. Massive and very hard. Upper contact has ~40 cm of chill margin with a breccia fragment from above unit in it as a rip up clast. Lower contact sharp and irregular at 35 dca.	N473422	201.11	202.00	0.89	0.3	0.66	
			N473423	202.00	203.00	1.00	0.08	0.25	
			N473425	203.00	204.00	1.00	0.09	0.24	
			N473426	204.00	205.00	1.00	0.08	0.21	
			N473427	205.00	205.66	0.66	0.1	0.46	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
205.66 -	220.98	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix filling. Very hard. Breccia fragments range from very angular to subrounded and are 1mm to several centimetres in size. Unit is not typically well brecciated as normal but graphite is well represented in local overprinted syenite and within the breccia proper. I suspect that this interval is more of an alteration zone rather than part of the typical pipe formation. 205.66 to 206.83 Over printed and fracture filling graphite. 206.83 to 207.18 Graphite breccia 207.18 to 208.24 Over printed and fracture filling graphite. 208.24 to 209.34 Graphite breccia. 209.10 py and muscovite fracture filling. 209.34 to 209.43 Very fine grained mafic? Fragment upper contact at 31 dca, lower contact at 75 dca. Calcite fracture filling. 209.43 to 211.52 Graphite breccia. 211.52 to 212.00 Mafic dyke with graphite. Upper contact sharp at 55 dca, lower contact sharp at 26 dca. 212.00 to 218.00 Graphite breccia. 218.00 to 218.20 Mafic dyke at 36 dca. 218.20 to 218.42 Graphite overprinting. 218.42 to 218.68 Mafic dyke at 35 dca. 218.68 to 220.98 Very dark grey with lots of graphite overprinting. Lower contact sharp at 85 dca.	N473428	205.66	207.00	1.34	1.16	0.09	
			N473429	207.00	208.24	1.24	1.11	0.36	
			N473430	208.24	209.00	0.76	5.05	0.2	
			N473431	208.24	209.00	0.76	4.91	0.23	
			N473432	209.00	210.00	1.00	5.73	0.24	
			N473433	210.00	211.00	1.00	6.96	0.58	
			N473434	211.00	211.52	0.52	4.09	0.21	
			N473436	211.52	212.00	0.48	1.75	0.48	
			N473437	212.00	213.00	1.00	6	0.65	
			N473438	213.00	214.00	1.00	5.06	0.25	
			N473439	214.00	215.00	1.00	5.1	0.72	
			N473440	215.00	216.00	1.00	5.65	0.61	
			N473441	216.00	217.00	1.00	5.77	0.51	
			N473442	217.00	218.00	1.00	4.74	0.47	
			N473443	218.00	219.00	1.00	3.66	0.49	
			N473445	219.00	220.00	1.00	1.65	0.58	
			N473446	220.00	220.98	0.98	1.22	0.35	
220.98 -	226.07	**FD Felsic Dyke** Very dark grey/blue. Very fine grained aphanitic and glassy. Very hard with 1mm white feldspar phenocrysts. 223.80 to 224.28 Felsic intrusive at 27 dca. Lower contact very irregular at 45 dca.	N473447	220.98	222.00	1.02	2.9	0.36	
			N473448	222.00	223.00	1.00	2.65	0.37	
			N473449	223.00	223.80	0.80	2.41	0.31	
			N473451	223.80	224.28	0.48	0.43	0.78	
			N473450	223.80	224.28	0.48	0.41	0.76	
			N473452	224.28	225.00	0.72	2.51	0.32	
			N473453	225.00	226.07	1.07	2.19	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
226.07	246.56	**FD Felsic Dyke** Dark grey/green with very dark red/orange tinge. Some type of felsic intrusive with 1-5mm phenocrysts that have an orthoclase rim. Very massive and very hard. Lower contact at 50 dca.	N473454	226.07	227.00	0.93	0.17	0.16	
			N473456	227.00	228.00	1.00	0.04	0.13	
			N473457	228.00	229.50	1.50	0.06	0.06	
			N473458	229.50	231.00	1.50	0.12	0.05	
			N473459	231.00	232.50	1.50	0.14	0.04	
			N473460	232.50	234.00	1.50	0.11	0.04	
			N473461	234.00	235.50	1.50	0.12	0.04	
			N473462	235.50	237.00	1.50	0.15	0.1	
			N473463	237.00	238.50	1.50	0.13	0.04	
			N473465	238.50	240.00	1.50	0.09	0.06	
			N473466	240.00	241.50	1.50	0.14	0.07	
			N473467	241.50	243.00	1.50	0.1	0.06	
			N473468	243.00	244.50	1.50	0.11	0.06	
			N473469	244.50	246.00	1.50	0.02	0.08	
			N473471	246.00	246.56	0.56	0.1	0.06	
			N473470	246.00	246.56	0.56	0.09	0.05	
246.56	253.22	**GRDR Granodiorite** Dark grey with green amphiboles and light grey feldspars and quartz. Unit has local very round diorite pieces within a medium grained felsic unit? Lower contact at 57 dca.	N473472	246.56	247.00	0.44	0.17	0.03	
			N473473	247.00	248.00	1.00	0.78	0.13	
			N473474	248.00	249.00	1.00	1.52	0.3	
			N473476	249.00	250.00	1.00	1.02	0.32	
			N473477	250.00	251.00	1.00	0.37	0.25	
			N473478	251.00	252.00	1.00	0.53	0.23	
			N473479	252.00	253.22	1.22	0.42	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
253.22	256.29	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange tinge. Massive and very hard. Local weak graphite overprinting and fracture filling. Lower contact sharp at 90 dca.	N473480	253.22	254.00	0.78	0.06	0.06	
			N473481	254.00	255.00	1.00	0.05	0.02	
			N473482	255.00	256.29	1.29	0.43	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
256.29	291.26	**GRPBX Graphitic Breccia** Grey to dark grey with orange tints in syenite bands. Unit consists of 50% breccia bands and 50% syenite gneiss overprinted with weak graphite. Massive syenite bands and very hard. 259.44 to 260.16 Mafic to intermediate dyke at 40 dca. 262.72 to 263.05 Mafic dyke at 62 dca. Lower contact gradational at 71 dca. Gradational contacts in the west pipe may suggest that these units all formed in a relatively same period of time.	N473483	256.29	257.00	0.71	0.91	0.29	
			N473485	257.00	258.00	1.00	0.63	0.15	
			N473486	258.00	259.44	1.44	0.77	0.23	
			N473487	259.44	260.16	0.72	0.1	0.08	
			N473488	260.16	261.00	0.84	0.27	0.06	
			N473489	261.00	262.00	1.00	1.97	0.24	
			N473490	262.00	263.05	1.05	1.31	0.1	
			N473491	262.00	263.05	1.05	1.34	0.1	
			N473492	263.05	264.00	0.95	1.94	0.26	
			N473493	264.00	265.00	1.00	0.54	0.22	
			N473494	265.00	266.00	1.00	0.22	0.06	
			N473496	266.00	267.00	1.00	1.06	0.13	
			N473497	267.00	268.00	1.00	3.65	0.22	
			N473498	268.00	269.00	1.00	0.87	0.11	
			N473499	269.00	270.00	1.00	0.05	0.02	
			N473500	270.00	271.00	1.00	0.89	0.08	
			N473501	271.00	272.00	1.00	1	0.2	
			N473502	272.00	273.00	1.00	1.94	0.28	
			N473503	273.00	274.00	1.00	1.43	0.21	
			N473505	274.00	275.00	1.00	2.71	0.27	
			N473506	275.00	276.00	1.00	1.51	0.13	
			N473507	276.00	277.00	1.00	2.4	0.26	
			N473508	277.00	278.00	1.00	0.5	0.19	
			N473509	278.00	279.00	1.00	0.06	0.05	
			N473510	279.00	280.00	1.00	1.36	0.1	
			N473511	279.00	280.00	1.00	1.45	0.1	
			N473512	280.00	281.00	1.00	1.59	0.17	
			N473513	281.00	282.00	1.00	2.54	0.28	
			N473514	282.00	283.00	1.00	3.51	0.29	
			N473516	283.00	284.00	1.00	4.33	0.31	
			N473517	284.00	285.00	1.00	4.67	0.58	
			N473518	285.00	286.00	1.00	1.4	0.09	
			N473519	286.00	287.00	1.00	1.95	0.11	
			N473520	287.00	288.00	1.00	1.89	0.19	
			N473521	288.00	289.00	1.00	1.05	0.14	
			N473522	289.00	290.00	1.00	0.44	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N473523	290.00	291.26	1.26	1.6	0.16	
291.26	299.06	**SYENSL Syenite Sill (unmineralized)** Dark green and medium grained. Very hard and massive, "gabbroic texture". Similar to unmineralized intrusive unit encountered in previous holes. Lower contact gradational at 31 dca. Gradational as breccia fragments come in with graphite but matrix still intermediate to felsic.	N473525	291.26	292.00	0.74	0.01	0.01	
			N473526	292.00	293.00	1.00	0.06	0.02	
			N473527	293.00	294.00	1.00	0.03	0.05	
			N473528	294.00	295.00	1.00	0.01	0.03	
			N473529	295.00	296.00	1.00	0.02	0.08	
			N473531	296.00	297.00	1.00	0.07	0.07	
			N473530	296.00	297.00	1.00	0.09	0.07	
			N473532	297.00	298.00	1.00	0.06	0.04	
			N473533	298.00	299.06	1.06	0.1	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
299.06	317.76	**GRPBX Graphitic Breccia** Light grey to grey with a grey matrix. Unit is not as black as usual ore breccia but graphite is still rather abundant. Breccia fragments are subrounded and consist of lots of different clasts of syenite, granodiorite and mafic intrusives. 300.60 to 300.70 Mafic dyke at 65 dca. Lower contact sharp at 71 dca.	N473534	299.06	300.00	0.94	3.82	0.26	
			N473536	300.00	301.00	1.00	2.79	0.46	
			N473537	301.00	302.00	1.00	1.94	0.16	
			N473538	302.00	303.00	1.00	1.77	0.38	
			N473539	303.00	304.00	1.00	1.57	0.23	
			N473540	304.00	305.00	1.00	0.43	0.22	
			N473541	305.00	306.00	1.00	3.34	0.37	
			N473542	306.00	307.00	1.00	2.8	0.24	
			N473543	307.00	308.00	1.00	1.82	0.23	
			N473545	308.00	309.00	1.00	3.27	0.26	
			N473546	309.00	310.00	1.00	2.4	0.3	
			N473547	310.00	311.00	1.00	1.64	0.28	
			N473548	311.00	312.00	1.00	3.35	0.32	
			N473549	312.00	313.00	1.00	3.07	0.29	
			N473550	313.00	314.00	1.00	4.04	0.3	
			N473551	313.00	314.00	1.00	4.12	0.31	
			N473552	314.00	315.00	1.00	3.48	0.24	
			N473553	315.00	316.00	1.00	3.24	0.26	
			N473554	316.00	317.00	1.00	3.93	0.28	
			N473556	317.00	317.76	0.76	5.08	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
317.76	385.45	**SYENSL Syenite Sill (unmineralized)** Dark green. Medium to coarse grained. Massive, , "gabbroic texture". Hornblende and amphiboles visible to naked eye. 317.76 to 320.70 Unit is chilled and gradational from a syenite/diorite to the syenite sill. 337.25 Slickenside fracture at 120 dca. Lower contact fractured at 20 dca.	N473557	317.76	319.00	1.24	0.27	0.29	
			N473558	319.00	320.00	1.00	0.09	0.04	
			N473559	320.00	321.00	1.00	0.14	0.04	
			N473560	321.00	322.50	1.50	0.06	0.02	
			N473561	322.50	324.00	1.50	0.02	0.01	
			N473562	324.00	325.50	1.50	0.02	0.01	
			N473563	325.50	327.00	1.50	0.09	0.02	
			N473565	327.00	328.50	1.50	0.01	0.01	
			N473566	328.50	330.00	1.50	0.04	0.04	
			N473567	330.00	331.50	1.50	0.07	0.06	
			N473568	331.50	333.00	1.50	0.03	0.03	
			N473569	333.00	334.50	1.50	0.04	0.09	
			N473570	334.50	336.00	1.50	0.03	0.1	
			N473571	334.50	336.00	1.50	0.03	0.11	
			N473572	336.00	337.50	1.50	0.04	0.04	
			N473573	337.50	339.00	1.50	0.03	0.04	
			N473574	339.00	340.50	1.50	0.03	0.08	
			N473576	340.50	342.00	1.50	0.01	0.03	
			N473577	342.00	343.50	1.50	0.03	0.08	
			N473578	343.50	345.00	1.50	0.03	0.09	
			N473579	345.00	346.50	1.50	0.06	0.03	
			N473580	346.50	348.00	1.50	0.04	0.03	
			N473581	348.00	349.50	1.50	0.02	0.06	
			N473582	349.50	351.00	1.50	0.06	0.03	
			N473583	351.00	352.50	1.50	0.03	0.02	
			N473585	352.50	354.00	1.50	0.04	0.06	
			N473586	354.00	355.50	1.50	0.06	0.02	
			N473587	355.50	357.00	1.50	0.06	0.03	
			N473588	357.00	358.50	1.50	0.05	0.04	
			N473589	358.50	360.00	1.50	0.05	0.03	
			N473590	360.00	361.50	1.50	0.02	0.03	
			N473591	360.00	361.50	1.50	0.04	0.04	
			N473592	361.50	363.00	1.50	0.05	0.02	
			N473593	363.00	364.50	1.50	0.02	0.03	
			N473594	364.50	366.00	1.50	0.01	0.04	
			N473596	366.00	367.50	1.50	0.02	0.04	

Lithology								
From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N473597	367.50	369.00	1.50	0.03	0.02	
		N473598	369.00	370.50	1.50	0.07	0.03	
		N473599	370.50	372.00	1.50	0.07	0.03	
		N473600	372.00	373.50	1.50	0.01	0.02	
		N473601	373.50	375.00	1.50	0.03	0.02	
		N473602	375.00	376.50	1.50	0.03	0.02	
		N473603	376.50	378.00	1.50	0.08	0.01	
		N473605	378.00	379.50	1.50	0.02	0.02	
		N473606	379.50	381.00	1.50	0.03	0.02	
		N473607	381.00	382.50	1.50	0.01	0.02	
		N473608	382.50	384.00	1.50	0.04	0.04	
		N473609	384.00	385.45	1.45	0.04	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
385.45	409.96	**SYEN Syenite** Grey with orange tinge. Massive and very hard. 385.75 to 385.86 Biotite chlorite mafic dyke or contact alteration. Irregular contacts at 23 dca with vfg py. 390.69 to 391.80 Fault zone. Small broken pieces and some lost core. Lower contact of fault zone 1 cm gouge at 23 dca. 398.63 to 398.79 Mafic alteration or dyke contacts at 25 and 70 dca. 399.38 to 399.51 Chlorite and hematite and quartz at 31 to 71 dca. 403.95 to 404.05 Round piece of mafic 409.21 to 409.39 Darker possible chill margin. 409.39 to 409.96 Granodiorite at 53 dca. Lower contact at 53 dca.								
			N473611	385.45	386.50	1.05	0.18	1.06	
			N473610	385.45	386.50	1.05	0.12	0.96	
			N473612	386.50	387.50	1.00	0.15	0.25	
			N473613	387.50	388.50	1.00	0.15	0.25	
			N473614	388.50	389.50	1.00	0.08	0.19	
			N473616	389.50	390.69	1.19	0.05	0.18	
			N473617	390.69	391.80	1.11	0.06	0.09	
			N473618	391.80	393.00	1.20	0.04	0.13	
			N473619	393.00	394.00	1.00	0.01	0.07	
			N473620	394.00	395.00	1.00	0.06	0.1	
			N473621	395.00	396.00	1.00	0.05	0.12	
			N473622	396.00	397.00	1.00	0.14	0.25	
			N473623	397.00	398.00	1.00	0.12	0.34	
			N473625	398.00	399.00	1.00	0.05	0.59	
			N473626	399.00	400.00	1.00	0.05	1.54	
			N473627	400.00	401.00	1.00	0.08	0.74	
			N473628	401.00	402.00	1.00	0.04	0.76	
			N473629	402.00	403.00	1.00	0.06	0.23	
			N473631	403.00	404.00	1.00	0.08	0.25	
			N473630	403.00	404.00	1.00	0.09	0.26	
			N473632	404.00	405.00	1.00	0.09	0.23	
			N473633	405.00	406.00	1.00	0.09	0.22	
			N473634	406.00	407.00	1.00	0.04	0.11	
			N473636	407.00	408.00	1.00	0.03	0.1	
			N473637	408.00	409.00	1.00	0.04	0.76	
			N473638	409.00	409.96	0.96	0.2	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
409.96	427.75	**GRPBX Graphitic Breccia** Grey to dark grey with dark grey to black graphite matrix. Fragments range from mm to decimetre in size and are angular to subrounded. 415.00 to 415.89 Overprinted syenite gneiss. Upper contact at 105, lower contact at 57 dca. 417.63 to 417.78 mafic dyke, upper contact at 140, lower contact at 30 dca. 426.26 to 426.58 Medium grained mafic dyke at upper contact 61, lower contact 47 dca. Lower contact at 50 dca.	N473639	409.96	411.00	1.04	3.64	0.24	
			N473640	411.00	412.00	1.00	1.65	0.12	
			N473641	412.00	413.00	1.00	4.73	0.23	
			N473642	413.00	414.00	1.00	3.3	0.2	
			N473643	414.00	415.00	1.00	4.61	0.39	
			N473645	415.00	415.89	0.89	0.07	0.16	
			N473646	415.89	417.00	1.11	1.35	0.17	
			N473647	417.00	418.00	1.00	3.58	0.27	
			N473648	418.00	419.00	1.00	5.46	0.32	
			N473649	419.00	420.00	1.00	4.34	0.4	
			N473651	420.00	421.00	1.00	4.82	0.39	
			N473650	420.00	421.00	1.00	4.65	0.33	
			N473652	421.00	422.00	1.00	5.88	0.32	
			N473653	422.00	423.00	1.00	6.76	0.36	
			N473654	423.00	424.00	1.00	8.77	0.33	
			N473656	424.00	425.00	1.00	7.12	0.38	
			N473657	425.00	426.00	1.00	6.77	0.34	
			N473658	426.00	427.00	1.00	3.85	0.22	
			N473659	427.00	427.75	0.75	5.82	0.47	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
427.75	458.46	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. 427.95 to 428.00 Mafic dyke at 83 dca. 435.58 to 436.10 Graphite vein cross cutting unit. Upper Contact at 130, Lower Contact at 170 dca. 438.21 to 438.40 Mafic dyke at 110 Upper Contact, 30dca Lower Contact. 438.64 to 438.98 Mafic Dyke, Upper Contact at 45 dca, Lower Contact 55 dca. 439.00 to 439.02 Mafic at 55 dca. 440.20 to 440.38 fractures and fault gouge at 55 dca. 444.31 to 445.00 Mafic dyke at 50 dca. 446.9 to 449.05 Chlorite biotite alteration. Lower contact at 59 dca.								
			N473660	427.75	429.00	1.25	0.54	0.37	
			N473661	429.00	430.00	1.00	0.49	0.21	
			N473662	430.00	431.00	1.00	0.64	0.15	
			N473663	431.00	432.00	1.00	0.76	0.29	
			N473665	432.00	433.00	1.00	0.24	0.11	
			N473666	433.00	434.00	1.00	0.21	0.08	
			N473667	434.00	435.00	1.00	0.24	0.13	
			N473668	435.00	435.58	0.58	0.18	0.07	
			N473669	435.58	436.10	0.52	5.52	0.05	
			N473670	436.10	437.00	0.90	0.3	0.05	
			N473671	436.10	437.00	0.90	0.29	0.05	
			N473672	437.00	438.00	1.00	0.19	0.03	
			N473673	438.00	439.00	1.00	0.19	0.01	
			N473674	439.00	440.00	1.00	0.13	0.12	
			N473676	440.00	441.12	1.12	0.01	0.17	
			N473677	441.12	442.00	0.88	0.03	0.32	
			N473678	442.00	443.00	1.00	0.03	1.35	
			N473679	443.00	444.31	1.31	0.37	1.21	
			N473680	444.31	445.00	0.69	0.22	0.25	
			N473681	445.00	446.00	1.00	0.13	0.15	
			N473682	446.00	447.00	1.00	0.17	0.22	
			N473683	447.00	448.50	1.50	0.12	0.17	
			N473685	448.50	450.00	1.50	0.13	0.22	
			N473686	450.00	451.50	1.50	0.05	0.25	
			N473687	451.50	453.00	1.50	0.05	0.19	
			N473688	453.00	454.50	1.50	0.03	0.18	
			N473689	454.50	456.00	1.50	0.09	0.25	
			N473690	456.00	457.50	1.50	0.09	0.2	
			N473691	456.00	457.50	1.50	0.11	0.2	
			N473692	457.50	458.46	0.96	0.07	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
458.46	469.72	**SYENSL Syenite Sill (unmineralized)** Dark green and medium grained. Very hard and massive. Typical unminerlaized sill that was initially logged as "gabbro". Lower contact at 80 dca.	N473693	458.46	460.00	1.54	0.02	0.05	
			N473694	460.00	461.50	1.50	0.05	0.11	
			N473696	461.50	463.00	1.50	0.07	0.08	
			N473697	463.00	464.50	1.50	0.01	0.02	
			N473698	464.50	465.50	1.00	0.02	0.05	
			N473699	465.50	467.00	1.50	0.03	0.02	
			N473700	467.00	468.50	1.50	0.02	0.02	
			N473701	468.50	469.72	1.22	0.01	0.03	
469.72	477.92	**GR Granite** Coarse grained. Salt and pepper texture of amphiboles. Orthoclase, plagioclase and quartz. Orange to pink with dark green peppering of amphibole or hornblende. Massive and very hard. Lower contact at 55 dca.	N473702	469.72	471.00	1.28	0.02	0.02	
			N473703	471.00	472.50	1.50	0.01	0.02	
			N473705	472.50	474.00	1.50	0.01	0.03	
			N473706	474.00	475.50	1.50	0.03	0.03	
			N473707	475.50	477.00	1.50	0.04	0.05	
			N473708	477.00	477.92	0.92	0.09	0.2	
477.92	480.04	**ID Intermediate Dyke** Dark green and medium grained. Very hard and massive. Lower contact at 47 dca.	N473709	477.92	479.00	1.08	0.03	0.07	
			N473711	479.00	480.04	1.04	0.02	0.06	
			N473710	479.00	480.04	1.04	0.01	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
480.04	492.89	**SYENSL Syenite Sill (unmineralized)** Grey with orange tinge. Massive and very hard. Large grained at start of unit. Unit grades down to finer grained. Unit appears to be a mafic (diorite) to intermediate dyke swarm. Lower contact at 55 dca.	N473712	480.04	481.50	1.46	0.02	0.14	
			N473713	481.50	483.00	1.50	0.03	0.13	
			N473714	483.00	484.50	1.50	0.04	0.03	
			N473716	484.50	486.00	1.50	0.03	0.03	
			N473717	486.00	487.50	1.50	0.05	0.05	
			N473718	487.50	489.00	1.50	0.04	0.02	
			N473719	489.00	490.50	1.50	0.01	0.04	
			N473720	490.50	492.00	1.50	0.03	0.03	
			N473721	492.00	492.89	0.89	0.06	0.05	
492.89	516.89	**SYEN Syenite** Grey with orange tinge. Massive and very hard syenite gneiss. Fine to medium grained salt and pepper texture. 496.85 to 496.90 Mafic dyke at 75 dca. 497.72 to 498.00 Intermediate dyke at 50 dca. 512.13 to 512.40 Mafic dyke at 23 dca. Lower contact at 55 dca.	N473722	492.89	494.00	1.11	0.12	0.12	
			N473723	494.00	495.00	1.00	0.08	0.1	
			N473725	495.00	496.50	1.50	0.06	0.14	
			N473726	496.50	498.00	1.50	0.09	0.13	
			N473727	498.00	499.50	1.50	0.16	0.14	
			N473728	499.50	501.00	1.50	0.11	0.13	
			N473729	501.00	502.50	1.50	0.07	0.12	
			N473731	502.50	504.00	1.50	0.09	0.16	
			N473730	502.50	504.00	1.50	0.08	0.16	
			N473732	504.00	505.50	1.50	0.15	0.17	
			N473733	505.50	507.00	1.50	0.17	0.19	
			N473734	507.00	508.50	1.50	0.15	0.19	
			N473736	508.50	510.00	1.50	0.2	0.22	
			N473737	510.00	511.50	1.50	0.25	0.1	
			N473738	511.50	513.00	1.50	0.65	0.32	
			N473739	513.00	514.50	1.50	0.09	0.09	
			N473740	514.50	516.00	1.50	0.05	0.17	
			N473741	516.00	516.89	0.89	0.03	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
516.89	518.60	**ID Intermediate Dyke** Dark green. Medium grained Massive and very hard. Lower contact at 65 dca.	N473742	516.89	518.00	1.11	0.04	0.22	
			N473743	518.00	518.60	0.60	0.06	0.11	
518.60	531.65	**SYEN Syenite** Grey with pink and orange tinge. Massive and very hard. 524.30 to 524.47 mafic dyke at 45 dca. 525.56 to 526.16 Intermediate dyke at 53 dca. Lower contact at 85 dca.	N473745	518.60	520.00	1.40	0.03	0.07	
			N473746	520.00	521.50	1.50	0.06	0.14	
			N473747	521.50	523.00	1.50	0.05	0.16	
			N473748	523.00	524.50	1.50	0.09	0.18	
			N473749	524.50	525.56	1.06	0.15	0.09	
			N473751	525.56	526.16	0.60	0.08	0.03	
			N473750	525.56	526.16	0.60	0.09	0.03	
			N473752	526.16	527.00	0.84	0.19	0.09	
			N473753	527.00	528.00	1.00	0.1	0.1	
			N473754	528.00	529.50	1.50	0.11	0.14	
			N473756	529.50	531.00	1.50	0.1	0.15	
			N473757	531.00	531.65	0.65	0.05	0.09	
531.65	539.35	**ID Intermediate Dyke** Dark green. Massive and very hard. Fine grained. Lower contact at 65 dca.	N473758	531.65	533.00	1.35	0.02	0.04	
			N473759	533.00	534.50	1.50	0.01	0.03	
			N473760	534.50	536.00	1.50	0.02	0.04	
			N473761	536.00	537.00	1.00	0.06	0.04	
			N473762	537.00	538.00	1.00	0.01	0.04	
			N473763	538.00	539.35	1.35	0.02	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
539.35 -	575.51	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Unit has several dykes throughout. 550.34 to 550.42 Two mafic pieces insitu. 552.09 to 552.8 Mafic dyke at 45 dca. 552.34 to 552.75 Mafic dyke at 50 dca. 556.16 to 556.21 chill margin at 67 dca. 556.21 to 556.42 Mafic dyke at 43 dca weak graphite? 556.49 to 558.40 Fault zone, broken blocky hematite staining. 556.49 fault gouge at 49 dca. 557.88 fault gouge at 21 dca. 558.40 fault angle of 21 dca. 558.50 to 558.80 Mafic porphyry dark almost black with square plagioclase phenocrysts at 37 dca. 559.12 to 559.19 mafic dyke at 70 dca. 559.27 to 559.36 chlorite biotite weak graphite? At 70 dca. 559.78 to 560.36 mafic porphyry at 41 dca. 562.02 to 562.79 mafic porphyry at 31 dca. Lower contact at 60 dca.							
			N473765	539.35	540.00	0.65	0.2	0.23	
			N473766	540.00	541.50	1.50	0.15	0.13	
			N473767	541.50	543.00	1.50	0.03	0.16	
			N473768	543.00	544.50	1.50	0.06	0.18	
			N473769	544.50	546.00	1.50	0.12	0.16	
			N473770	546.00	547.50	1.50	0.15	0.19	
			N473771	546.00	547.50	1.50	0.12	0.19	
			N473772	547.50	549.00	1.50	0.09	0.16	
			N473773	549.00	550.00	1.00	0.23	0.21	
			N473774	550.00	551.00	1.00	0.1	0.1	
			N473776	551.00	552.00	1.00	0.14	0.08	
			N473777	552.00	553.00	1.00	0.12	0.06	
			N473778	553.00	554.00	1.00	0.2	0.17	
			N473779	554.00	555.00	1.00	0.2	0.2	
			N473780	555.00	556.00	1.00	0.05	0.13	
			N473781	556.00	557.00	1.00	0.14	0.14	
			N473782	557.00	558.50	1.50	0.11	0.05	
			N473783	558.50	559.78	1.28	0.18	0.08	
			N473785	559.78	560.36	0.58	0.05	0.15	
			N473786	560.36	561.00	0.64	0.09	0.25	
			N473787	561.00	562.02	1.02	0.07	0.2	
			N473788	562.02	562.79	0.77	0.12	0.15	
			N473789	562.79	564.00	1.21	0.18	0.12	
			N473790	564.00	565.50	1.50	0.14	0.13	
			N473791	564.00	565.50	1.50	0.14	0.13	
			N473792	565.50	567.00	1.50	0.11	0.12	
			N473793	567.00	568.50	1.50	0.16	0.1	
			N473794	568.50	570.00	1.50	0.14	0.08	
			N473796	570.00	571.50	1.50	0.16	0.19	
			N473797	571.50	573.00	1.50	0.22	0.1	
			N473798	573.00	574.50	1.50	0.15	0.13	
			N473799	574.50	575.51	1.01	0.1	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
575.51	576.58	**ID Intermediate Dyke** Dark green. Massive and very hard. Fine grained. Lower contact at 21 dca.	N473800	575.51	576.58	1.07	0.12	0.06	
576.58	577.70	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Medium grained. Lower contact gradational.	N473801	576.58	577.70	1.12	0.15	0.12	
577.70	581.14	**ID Intermediate Dyke** Dark green. Massive and very hard. Fine grained with medium grained areas. Lower contact at 50 dca.	N473802	577.70	579.00	1.30	0.14	0.16	
			N473803	579.00	580.00	1.00	0.15	0.04	
			N473805	580.00	581.14	1.14	0.11	0.03	
581.14	588.05	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Medium grained. 586.05 to 586.64 Intermediate dyke Light green and medium grained and massive. Upper contact 75, lower contact 60 dca. Lower contact at 29 dca.	N473806	581.14	582.00	0.86	0.15	0.15	
			N473807	582.00	583.50	1.50	0.17	0.12	
			N473808	583.50	585.00	1.50	0.12	0.09	
			N473809	585.00	586.05	1.05	0.07	0.13	
			N473811	586.05	586.64	0.59	0.14	0.07	
			N473810	586.05	586.64	0.59	0.1	0.08	
			N473812	586.64	588.05	1.41	0.15	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
588.05	594.15	**ID Intermediate Dyke** Dark green. Massive and very hard. 588.05 to 589.86 Very light green intermediate or dioritic dyke, medium grained. Lower contact sharp at 85 dca. 589.86 to 594.15 Finer grained darker green with orange red tinge of orthoclase? Dioritic texture salt and peppery. Lower contact at 63 dca.	N473813	588.05	589.00	0.95	0.12	0.1	
			N473814	589.00	589.86	0.86	0.08	0.1	
			N473816	589.86	591.00	1.14	0.15	0.02	
			N473817	591.00	592.00	1.00	0.15	0.01	
			N473818	592.00	593.00	1.00	0.12	0.02	
			N473819	593.00	594.15	1.15	0.11	0.02	
594.15	595.53	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Medium grained. 594.84 to 595.11 Mafic dyke at 77 dca. Lower contact at 90 dca.	N473820	594.15	594.84	0.69	0.16	0.14	
			N473821	594.84	595.53	0.69	0.06	0.05	
595.53	596.96	**ID Intermediate Dyke** Dark green. Massive and very hard. Fine grained. Chlorite and biotite grading towards a mafic. Lower contact at 125 dca.	N473822	595.53	596.96	1.43	0.07	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
596.96	610.46	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Medium grained. 605.06 to 605.19 Chloritic shear at 55 dca. Lower contact at 120 dca.	N473823	596.96	598.50	1.54	0.11	0.08	
			N473825	598.50	600.00	1.50	0.04	0.11	
			N473826	600.00	601.50	1.50	0.03	0.11	
			N473827	601.50	603.00	1.50	0.04	0.11	
			N473828	603.00	604.50	1.50	0.03	0.18	
			N473829	604.50	606.00	1.50	0.05	0.11	
			N473831	606.00	607.50	1.50	0.03	0.15	
			N473830	606.00	607.50	1.50	0.03	0.13	
			N473832	607.50	609.00	1.50	0.06	0.22	
			N473833	609.00	610.46	1.46	0.04	0.08	
610.46	612.55	**ID Intermediate Dyke** Dark green. Massive and very hard. Fine grained. 611.04 to 611.14 granite dyke at 43 dca. Lower contact at 115 dca.	N473834	610.46	611.55	1.09	0.04	0.04	
			N473836	611.55	612.55	1.00	0.04	0.06	
612.55	614.53	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Medium grained. Lower contact at 90 dca.	N473837	612.55	614.00	1.45	0.05	0.14	
			N473838	614.00	614.53	0.53	0.06	0.14	
614.53	617.63	**QD Quartz Diorite** Light to dark grey. Massive. Very hard. Salt and pepper texture of light quartz and plagioclase and dark amphiboles and biotite. EOH 617.63m	N473839	614.53	616.00	1.47	0.07	0.1	
			N473840	616.00	617.63	1.63	0.07	0.11	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	561.00	28/06/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545570.4	682709.4			Reflex APS	05/07/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.20	295.00		-51.60	Chibougamau Diamond Drilling	06/07/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	507	*Casing Pulled*	*Casing (1)*	54.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test the west pipe from the Southeast.	This hole intersected graphitic breccia intervals from 257.5 to 284.7m; 421.9 to 426.6m; 432.2 to 441.3m; 450.6 to 454.8m; 470.9 to 477.9m; and, 481.4 to 486.7m. The assays from 183.00m to 336.13m averaged 1.30% Cg over 153.13m; within this intersection a higher grade graphite zone from 248.00m to 295.02m averaged 3.75% Cg over 47.02m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
66.00			305.3	296.3	-51	-51	☑	Reflex EZ	56801	
69.00			306	297	-50.9	-50.9	☑	Reflex EZ	56734	
72.00			305.5	296.5	-50.9	-50.9	☑	Reflex EZ	56685	
75.00			304.7	295.7	-51	-51	☑	Reflex EZ	56640	
78.00			305.3	296.3	-51	-51	☑	Reflex EZ	56654	
81.00			304.5	295.5	-50.9	-50.9	☑	Reflex EZ	56741	
84.00			306.2	297.2	-50.8	-50.8	☑	Reflex EZ	56654	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			305.3	296.3	-50.8	-50.8	☑	Reflex EZ	56640	
90.00			305.5	296.5	-50.8	-50.8	☑	Reflex EZ	56633	
93.00			305.2	296.2	-50.9	-50.9	☑	Reflex EZ	56618	
96.00			306.3	297.3	-50.8	-50.8	☑	Reflex EZ	56572	
99.00			305.1	296.1	-51.1	-51.1	☑	Reflex EZ	56623	
102.00			306.5	297.5	-50.8	-50.8	☑	Reflex EZ	56556	
105.00			304.9	295.9	-51.1	-51.1	☑	Reflex EZ	56556	
108.00			305.6	296.6	-50.8	-50.8	☑	Reflex EZ	56571	
111.00			305.9	296.9	-50.8	-50.8	☑	Reflex EZ	56605	
114.00			304.7	295.7	-51	-51	☑	Reflex EZ	56507	
117.00			305.3	296.3	-50.9	-50.9	☑	Reflex EZ	56597	
120.00			305	296	-50.9	-50.9	☑	Reflex EZ	56458	
123.00			306.3	297.3	-50.6	-50.6	☑	Reflex EZ	56715	
126.00			304.9	295.9	-50.9	-50.9	☑	Reflex EZ	56569	
129.00			305	296	-50.9	-50.9	☑	Reflex EZ	56497	
132.00			306.6	297.6	-50.6	-50.6	☑	Reflex EZ	56528	
135.00			306.1	297.1	-50.6	-50.6	☑	Reflex EZ	56600	
138.00			305.4	296.4	-50.7	-50.7	☑	Reflex EZ	56532	
141.00			306.6	297.6	-50.5	-50.5	☑	Reflex EZ	56570	
144.00			306.5	297.5	-50.5	-50.5	☑	Reflex EZ	56462	
147.00			306	297	-50.6	-50.6	☑	Reflex EZ	56543	
150.00			304.9	295.9	-50.7	-50.7	☑	Reflex EZ	56802	
153.00			305.8	296.8	-50.6	-50.6	☑	Reflex EZ	56648	
156.00			306.6	297.6	-50.4	-50.4	☑	Reflex EZ	56567	
159.00			306.6	297.6	-50.4	-50.4	☑	Reflex EZ	56582	
165.00			306.9	297.9	-50.3	-50.3	☑	Reflex EZ	56539	
168.00			306.1	297.1	-50.3	-50.3	☑	Reflex EZ	56618	
171.00			307.5	298.5	-50.1	-50.1	☑	Reflex EZ	56507	
174.00			306.8	297.8	-50.1	-50.1	☑	Reflex EZ	56558	
177.00			306.3	297.3	-50.2	-50.2	☑	Reflex EZ	56516	
180.00			307.4	298.4	-49.9	-49.9	☑	Reflex EZ	56468	
186.00			307.1	298.1	-50.1	-50.1	☑	Reflex EZ	55789	
189.00			306.3	297.3	-50	-50	☑	Reflex EZ	56580	
192.00			307	298	-49.9	-49.9	☑	Reflex EZ	56507	
195.00			306.2	297.2	-50	-50	☑	Reflex EZ	56680	
198.00			307	298	-49.6	-49.6	☑	Reflex EZ	56607	
201.00			307.9	298.9	-49.6	-49.6	☑	Reflex EZ	56515	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			306.9	297.9	-49.8	-49.8	☑	Reflex EZ	56514	
207.00			307.1	298.1	-49.8	-49.8	☑	Reflex EZ	56586	
210.00			307.9	298.9	-49.6	-49.6	☑	Reflex EZ	56557	
213.00			307.9	298.9	-49.6	-49.6	☑	Reflex EZ	56606	
216.00			307.8	298.8	-49.6	-49.6	☑	Reflex EZ	56556	
219.00			307.4	298.4	-49.5	-49.5	☑	Reflex EZ	56567	
222.00			308.2	299.2	-49.5	-49.5	☑	Reflex EZ	56637	
225.00			307.5	298.5	-49.5	-49.5	☑	Reflex EZ	56463	
228.00			306.5	297.5	-49.7	-49.7	☑	Reflex EZ	56595	
231.00			307.9	298.9	-49.6	-49.6	☑	Reflex EZ	56570	
234.00			308	299	-49.5	-49.5	☑	Reflex EZ	56466	
237.00			308.1	299.1	-49.5	-49.5	☑	Reflex EZ	56508	
240.00			308.1	299.1	-49.5	-49.5	☑	Reflex EZ	56667	
243.00			307.2	298.2	-49.6	-49.6	☑	Reflex EZ	56553	
249.00			308.1	299.1	-49.5	-49.5	☑	Reflex EZ	56481	
252.00			307.4	298.4	-49.6	-49.6	☑	Reflex EZ	56613	
255.00			308	299	-49.4	-49.4	☑	Reflex EZ	56512	
258.00			307.9	298.9	-49.3	-49.3	☑	Reflex EZ	56607	
261.00			307.1	298.1	-49.6	-49.6	☑	Reflex EZ	56572	
264.00			308.7	299.7	-49.3	-49.3	☑	Reflex EZ	56536	
267.00			308.2	299.2	-49.3	-49.3	☑	Reflex EZ	56580	
270.00			307	298	-49.6	-49.6	☑	Reflex EZ	56581	
273.00			307.4	298.4	-49.5	-49.5	☑	Reflex EZ	56627	
276.00			308.5	299.5	-49.2	-49.2	☑	Reflex EZ	56609	
279.00			307.4	298.4	-49.4	-49.4	☑	Reflex EZ	56613	
282.00			307.9	298.9	-49.3	-49.3	☑	Reflex EZ	56626	
285.00			306.9	297.9	-49.6	-49.6	☑	Reflex EZ	56637	
288.00			307.3	298.3	-49.4	-49.4	☑	Reflex EZ	56747	
291.00			308	299	-49.3	-49.3	☑	Reflex EZ	56640	
294.00			308.1	299.1	-49.3	-49.3	☑	Reflex EZ	56626	
297.00			306.5	297.5	-49.5	-49.5	☑	Reflex EZ	56777	
300.00			305.9	296.9	-49.5	-49.5	☑	Reflex EZ	56487	
303.00			307.4	298.4	-49.3	-49.3	☑	Reflex EZ	56339	
309.00			307.4	298.4	-49.3	-49.3	☑	Reflex EZ	56502	
312.00			307.1	298.1	-49.5	-49.5	☑	Reflex EZ	56767	
315.00			307.8	298.8	-49.3	-49.3	☑	Reflex EZ	57150	
318.00			308.5	299.5	-49.2	-49.2	☑	Reflex EZ	56549	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
321.00			307.5	298.5	-49.5	-49.5	☑	Reflex EZ	56729	
324.00			308.9	299.9	-49.2	-49.2	☑	Reflex EZ	56605	
327.00			307.2	298.2	-49.5	-49.5	☑	Reflex EZ	56629	
330.00			309	300	-49.3	-49.3	☑	Reflex EZ	56600	
333.00			308.1	299.1	-49.3	-49.3	☑	Reflex EZ	56638	
336.00			308.1	299.1	-49.3	-49.3	☑	Reflex EZ	56561	
339.00			308.7	299.7	-49.2	-49.2	☑	Reflex EZ	56270	
342.00			307.5	298.5	-49.3	-49.3	☑	Reflex EZ	56108	
345.00			306.9	297.9	-49.4	-49.4	☑	Reflex EZ	56434	
348.00			307.3	298.3	-49.4	-49.4	☑	Reflex EZ	56598	
351.00			309	300	-49.1	-49.1	☑	Reflex EZ	56240	
354.00			307.6	298.6	-49.3	-49.3	☑	Reflex EZ	56614	
357.00			309.2	300.2	-49.1	-49.1	☑	Reflex EZ	56614	
360.00			308.3	299.3	-49.2	-49.2	☑	Reflex EZ	56440	
363.00			307	298	-49.5	-49.5	☑	Reflex EZ	56524	
366.00			308.5	299.5	-49.3	-49.3	☑	Reflex EZ	56394	
369.00			308.5	299.5	-49.2	-49.2	☑	Reflex EZ	56668	
372.00			309.1	300.1	-49.3	-49.3	☑	Reflex EZ	56153	
378.00			309.1	300.1	-49.3	-49.3	☑	Reflex EZ	56295	
381.00			309.1	300.1	-49.3	-49.3	☑	Reflex EZ	56549	
384.00			309.1	300.1	-49.2	-49.2	☑	Reflex EZ	56426	
387.00			307.1	298.1	-49.5	-49.5	☑	Reflex EZ	56582	
390.00			308.3	299.3	-49.2	-49.2	☑	Reflex EZ	56203	
393.00			308.7	299.7	-49.2	-49.2	☑	Reflex EZ	56331	
396.00			309.3	300.3	-49.2	-49.2	☑	Reflex EZ	56087	
399.00			309.2	300.2	-49.1	-49.1	☑	Reflex EZ	56656	
402.00			309.6	300.6	-49.1	-49.1	☑	Reflex EZ	56731	
405.00			309.4	300.4	-49.1	-49.1	☑	Reflex EZ	56763	
408.00			310.2	301.2	-49.1	-49.1	☑	Reflex EZ	56465	
411.00			307.8	298.8	-49.4	-49.4	☑	Reflex EZ	56669	
414.00			308.6	299.6	-49.3	-49.3	☑	Reflex EZ	56321	
417.00			308.7	299.7	-49.4	-49.4	☑	Reflex EZ	56705	
420.00			309.5	300.5	-49.3	-49.3	☑	Reflex EZ	56764	
423.00			308.1	299.1	-49.4	-49.4	☑	Reflex EZ	56717	
426.00			309.7	300.7	-49.1	-49.1	☑	Reflex EZ	56686	
429.00			308.3	299.3	-49.4	-49.4	☑	Reflex EZ	56692	
432.00			309.5	300.5	-49.1	-49.1	☑	Reflex EZ	56653	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
435.00			310	301	-49.1	-49.1	☑	Reflex EZ	56707	
438.00			310.2	301.2	-49.1	-49.1	☑	Reflex EZ	56718	
441.00			308.9	299.9	-49.3	-49.3	☑	Reflex EZ	56765	
444.00			309	300	-49.4	-49.4	☑	Reflex EZ	56810	
447.00			308.6	299.6	-49.4	-49.4	☑	Reflex EZ	56897	
450.00			307.4	298.4	-49.4	-49.4	☑	Reflex EZ	56792	
453.00			309.7	300.7	-49.2	-49.2	☑	Reflex EZ	56790	
456.00			308.8	299.8	-49.2	-49.2	☑	Reflex EZ	56697	
459.00			309	300	-49.2	-49.2	☑	Reflex EZ	56531	
462.00			308.1	299.1	-49.3	-49.3	☑	Reflex EZ	55826	
465.00			309.1	300.1	-49.1	-49.1	☑	Reflex EZ	56053	
468.00			310.9	301.9	-49	-49	☑	Reflex EZ	56822	
471.00			309.5	300.5	-49.2	-49.2	☑	Reflex EZ	56770	
474.00			310.2	301.2	-49	-49	☑	Reflex EZ	56816	
477.00			310.3	301.3	-48.9	-48.9	☑	Reflex EZ	56674	
480.00			310.2	301.2	-49	-49	☑	Reflex EZ	56551	
483.00			310.3	301.3	-48.9	-48.9	☑	Reflex EZ	56768	
486.00			309.8	300.8	-49.1	-49.1	☑	Reflex EZ	56823	
489.00			310.3	301.3	-49	-49	☑	Reflex EZ	56692	
492.00			309.4	300.4	-49	-49	☑	Reflex EZ	56654	
495.00			309.6	300.6	-49.1	-49.1	☑	Reflex EZ	56800	
498.00			309	300	-49.1	-49.1	☑	Reflex EZ	56772	
501.00			309.9	300.9	-48.9	-48.9	☑	Reflex EZ	56835	
504.00			309.9	300.9	-49.1	-49.1	☑	Reflex EZ	56796	
507.00			309.8	300.8	-49.1	-49.1	☑	Reflex EZ	56848	
510.00			309.7	300.7	-49	-49	☑	Reflex EZ	56796	
513.00			309.2	300.2	-49.2	-49.2	☑	Reflex EZ	56837	
516.00			309.1	300.1	-49.1	-49.1	☑	Reflex EZ	56766	
519.00			309.7	300.7	-49.1	-49.1	☑	Reflex EZ	56725	
522.00			310.5	301.5	-49	-49	☑	Reflex EZ	56850	
525.00			309.5	300.5	-49.1	-49.1	☑	Reflex EZ	56421	
528.00			310.1	301.1	-48.8	-48.8	☑	Reflex EZ	56641	
531.00			309.2	300.2	-49.1	-49.1	☑	Reflex EZ	56377	
534.00			310.2	301.2	-48.9	-48.9	☑	Reflex EZ	56560	
537.00			310.6	301.6	-48.7	-48.7	☑	Reflex EZ	56589	
540.00			311.2	302.2	-48.7	-48.7	☑	Reflex EZ	56662	
543.00			310.5	301.5	-48.8	-48.8	☑	Reflex EZ	56920	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
546.00			310.8	301.8	-48.6	-48.6	☑	Reflex EZ	56731	
549.00			309.6	300.6	-48.8	-48.8	☑	Reflex EZ	56689	
552.00			310.1	301.1	-48.7	-48.7	☑	Reflex EZ	56855	
555.00			309	300	-48.8	-48.8	☑	Reflex EZ	56965	
558.00			311.2	302.2	-48.5	-48.5	☑	Reflex EZ	56715	
561.00			311.8	302.8	-48.6	-48.6	☑	Reflex EZ	56744	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	52.00	**OB Overburden** Unknown overburden, likely dirt and boulders.							
52.00	53.00	**SED Sediment** Broken blocky limestone. Lower contact grounded away.							
53.00	75.89	**SYEN Syenite** Pink to orange when wet. Strongly weathered. Massive and very hard. Local very minor graphite fracture filling. 56.78 malachite fault gouge at 45 dca. 73.43 to 74.53 Quartz vein, Upper Contact at 51, Lower Contact at 41 dca. Lower contact sharp at 31 dca.	N473841	55.00	56.00	1.00	0.04	0.23	
			N473842	56.00	57.00	1.00	0.01	0.14	
			N473843	57.00	58.00	1.00	0.03	0.13	
			N473845	58.00	59.00	1.00	0.02	0.05	2.63
			N473846	59.00	60.00	1.00	0.08	0.04	2.62
			N473847	60.00	61.00	1.00	0.04	0.04	2.59
			N473848	61.00	62.00	1.00	0.03	0.04	2.65
			N473849	62.00	63.00	1.00	0.01	0.04	2.62
			N473851	63.00	64.00	1.00	0.08	0.05	
			N473850	63.00	64.00	1.00	0.06	0.05	2.61
			N473852	64.00	65.00	1.00	0.03	0.04	
			N473853	65.00	66.00	1.00	0.08	0.11	
			N473854	66.00	67.00	1.00	0.03	0.1	
			N473856	67.00	68.00	1.00	0.01	0.06	
			N473857	68.00	69.00	1.00	0.04	0.11	
			N473858	69.00	70.00	1.00	0.02	0.06	
			N473859	70.00	71.00	1.00	0.05	0.09	
			N473860	71.00	72.00	1.00	0.06	0.03	
			N473861	72.00	73.00	1.00	0.19	0.005	
			N473862	73.00	73.43	0.43	0.13	0.01	
			N473863	73.43	74.53	1.10	0.08	0.01	
			N473865	74.53	75.89	1.36	0.33	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
75.89	78.15	**MD Mafic Dyke** Dark green fine grained. Dirty and weathered. 75.95 to 76.07 Fault gouge at 31 dca. Lower contact fault gouge at 55 dca.	N473866	75.89	77.00	1.11	0.19	0.01	
			N473867	77.00	78.15	1.15	0.2	0.01	
78.15	90.41	**SYENOP Syenite with Graphitic Overprinting** Pink to orange and light grey. Massive and0 very hard syenite gneiss. Unit has some weak fracture filling graphite and overprinting. 82.30 to 90.41 Unit is a fault zone with broken blocky core throughout this section. 82.40 5cm fault gouge at 50 dca. Lower contact sharp at 21 dca.	N473868	78.15	79.00	0.85	0.3	0.01	
			N473869	79.00	80.00	1.00	0.05	0.02	
			N473871	80.00	81.00	1.00	0.01	0.07	
			N473870	80.00	81.00	1.00	0.01	0.07	
			N473872	81.00	82.00	1.00	0.04	0.03	
			N473873	82.00	83.00	1.00	0.08	0.03	
			N473874	83.00	84.00	1.00	0.07	0.01	
			N473876	84.00	85.00	1.00	0.01	0.02	2.63
			N473877	85.00	86.00	1.00	0.09	0.01	2.61
			N473878	86.00	87.00	1.00	0.26	0.005	2.6
			N473879	87.00	88.00	1.00	0.46	0.005	2.61
			N473880	88.00	89.00	1.00	0.45	0.005	2.57
			N473881	89.00	90.41	1.41	0.55	0.02	
90.41	91.92	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green with rusty gouge and pink syenite fragments. This unit is a fault zone that has been intruded with a dyke. Broken and blocky with 10% mud gouge in fractures. Lower contact at 31 dca.	N473882	90.41	91.00	0.59	1.14	0.01	
			N473883	91.00	91.92	0.92	0.42	0.005	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
91.92	101.29	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. This unit is a more typical syenite gneiss and is more competent and not as fractured as above units. Local minor fracture filling and overprinted graphite. Lower contact at 55 dca.	N473885	91.92	93.00	1.08	0.17	0.05	
			N473886	93.00	94.00	1.00	0.01	0.05	
			N473887	94.00	95.00	1.00	0.06	0.15	
			N473888	95.00	96.00	1.00	0.04	0.14	
			N473889	96.00	97.00	1.00	0.05	0.11	
			N473891	97.00	98.00	1.00	0.08	0.02	
			N473890	97.00	98.00	1.00	0.08	0.02	
			N473892	98.00	99.00	1.00	0.13	0.03	
			N473893	99.00	100.00	1.00	0.05	0.02	
			N473894	100.00	101.29	1.29	0.01	0.05	
101.29	104.38	**ID Intermediate Dyke** Dark green to medium green. Massive and fine to medium grained. Very hard. 103.17 to 103.97 Syenite gneiss unit seems gradational. Upper Contact at 127, Lower Contact at 51 dca. Lower contact at 42 dca.	N473896	101.29	102.00	0.71	0.01	0.05	
			N473897	102.00	103.17	1.17	0.01	0.04	
			N473898	103.17	103.97	0.80	0.01	0.05	
			N473899	103.97	104.38	0.41	0.01	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
104.38	183.89	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. This unit is a more typical syenite gneiss and is more competent and not as fractured as above units. Local minor fracture filling and overprinted graphite. Lower contact at 42 dca.	N473900	104.38	105.00	0.62	0.01	0.1	
			N473901	105.00	106.00	1.00	0.01	0.05	
			N473902	106.00	107.00	1.00	0.05	0.13	
			N473903	107.00	108.00	1.00	0.04	0.06	
			N473905	108.00	109.00	1.00	0.06	0.06	
			N473906	109.00	110.00	1.00	0.02	0.06	
			N473907	110.00	111.00	1.00	0.15	0.01	
			N473908	111.00	112.00	1.00	0.04	0.04	
			N473909	112.00	113.00	1.00	0.07	0.07	
			N473911	113.00	114.00	1.00	0.09	0.03	
			N473910	113.00	114.00	1.00	0.07	0.03	
			N473912	114.00	115.00	1.00	0.14	0.07	
			N473913	115.00	116.00	1.00	0.01	0.04	
			N473914	116.00	117.00	1.00	0.01	0.07	
			N473916	117.00	118.00	1.00	0.03	0.09	
			N473917	118.00	119.00	1.00	0.02	0.04	
			N473918	119.00	120.00	1.00	0.03	0.1	
			N473919	120.00	121.00	1.00	0.04	0.14	
			N473920	121.00	122.00	1.00	0.01	0.06	
			N473921	122.00	123.00	1.00	0.07	0.05	
			N473922	123.00	124.00	1.00	0.04	0.03	
			N473923	124.00	125.00	1.00	0.08	0.09	
			N473925	125.00	126.00	1.00	0.07	0.07	
			N473926	126.00	127.00	1.00	0.11	0.08	
			N473927	127.00	128.00	1.00	0.06	0.08	
			N473928	128.00	129.00	1.00	0.09	0.04	
			N473929	129.00	130.00	1.00	0.04	0.05	
			N473930	130.00	131.00	1.00	0.06	0.07	
			N473931	130.00	131.00	1.00	0.06	0.06	
			N473932	131.00	132.00	1.00	0.09	0.03	
			N473933	132.00	133.50	1.50	0.11	0.08	
			N473934	133.50	135.00	1.50	0.02	0.03	
			N473936	135.00	136.50	1.50	0.18	0.07	
			N473937	136.50	138.00	1.50	0.09	0.11	
			N473938	138.00	139.50	1.50	0.17	0.13	
			N473939	139.50	141.00	1.50	0.11	0.1	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N473940	141.00	142.00	1.00	0.19	0.12	
		N473941	142.00	143.00	1.00	0.07	0.1	
		N473942	143.00	144.00	1.00	0.09	0.1	
		N473943	144.00	145.50	1.50	0.13	0.08	
		N473945	145.50	147.00	1.50	0.08	0.1	
		N473946	147.00	148.50	1.50	0.07	0.11	
		N473947	148.50	150.00	1.50	0.05	0.07	
		N473948	150.00	151.50	1.50	0.05	0.05	
		N473949	151.50	153.00	1.50	0.09	0.07	
		N473950	153.00	154.50	1.50	0.09	0.06	
		N473951	153.00	154.50	1.50	0.09	0.05	
		N473952	154.50	156.00	1.50	0.06	0.03	
		N473953	156.00	157.50	1.50	0.06	0.07	
		N473954	157.50	159.00	1.50	0.07	0.08	
		N473956	159.00	160.50	1.50	0.06	0.06	
		N473957	160.50	162.00	1.50	0.05	0.08	
		N473958	162.00	163.50	1.50	0.13	0.06	
		N473959	163.50	165.00	1.50	0.06	0.07	
		N473960	165.00	166.50	1.50	0.06	0.12	
		N473961	166.50	168.00	1.50	0.06	0.07	
		N473962	168.00	169.50	1.50	0.05	0.06	
		N473963	169.50	171.00	1.50	0.02	0.01	
		N473965	171.00	172.50	1.50	0.02	0.04	
		N473966	172.50	174.00	1.50	0.06	0.14	
		N473967	174.00	175.50	1.50	0.03	0.06	
		N473968	175.50	177.00	1.50	0.07	0.13	
		N473969	177.00	178.50	1.50	0.06	0.13	
		N473970	178.50	180.00	1.50	0.05	0.13	
		N473971	178.50	180.00	1.50	0.05	0.13	
		N473972	180.00	181.50	1.50	0.06	0.15	
		N473973	181.50	183.00	1.50	0.12	0.12	
		N473974	183.00	183.89	0.89	2.57	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
183.89	185.01	**MD Mafic Dyke** Dark green. Mostly massive. Weakly foliated at 40 dca. Fine grained. Hard. 184.91 to 184.97 Interbedded gneiss at 35 dca. Lower contact at 35 dca.	N473976	183.89	185.01	1.12	0.21	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
185.01	253.28	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive. Fine to medium grained and very hard. Graphite fracture filling and overprinting becomes more apparent in this unit. 186.68 to 187.42 Mafic dyke. At 37 dca. 205.02 to 205.34 Intermediate dyke at 44 dca. 212.12 to 212.40 Mafic dyke at 57 dca. 249.53 to 249.98 Mafic dyke at 37 dca. 250.00 to 253.28 Fault zone. Broken and blocky with a 3m fracture at 0 dca. Lower contact irregular at 35 dca.							
			N473977	185.01	186.00	0.99	0.18	0.13	
			N473978	186.00	186.68	0.68	0.52	0.13	
			N473979	186.68	187.42	0.74	0.44	0.17	
			N473980	187.42	188.00	0.58	0.15	0.23	
			N473981	188.00	189.00	1.00	0.4	0.12	
			N473982	189.00	190.00	1.00	0.04	0.05	
			N473983	190.00	191.00	1.00	0.07	0.07	
			N473985	191.00	192.00	1.00	0.06	0.12	
			N473986	192.00	193.00	1.00	0.06	0.08	
			N473987	193.00	194.00	1.00	0.24	0.09	
			N473988	194.00	195.00	1.00	0.06	0.09	
			N473989	195.00	196.00	1.00	0.11	0.12	
			N473990	196.00	197.00	1.00	0.08	0.14	
			N473991	196.00	197.00	1.00	0.07	0.13	
			N473992	197.00	198.00	1.00	0.19	0.18	
			N473993	198.00	199.00	1.00	0.24	0.2	
			N473994	199.00	200.00	1.00	0.28	0.18	
			N473996	200.00	201.00	1.00	0.37	0.2	
			N473997	201.00	202.00	1.00	0.06	0.08	
			N473998	202.00	203.00	1.00	0.04	0.05	
			N473999	203.00	204.00	1.00	0.15	0.16	
			N474000	204.00	205.00	1.00	0.15	0.18	
			Q180001	205.00	206.00	1.00	0.06	0.08	
			Q180002	206.00	207.00	1.00	0.06	0.1	
			Q180003	207.00	208.00	1.00	0.09	0.14	
			Q180005	208.00	209.00	1.00	0.56	0.22	
			Q180006	209.00	210.00	1.00	0.25	0.1	
			Q180007	210.00	211.00	1.00	0.06	0.04	
			Q180008	211.00	212.00	1.00	0.15	0.07	
			Q180009	212.00	213.00	1.00	0.22	0.09	
			Q180010	213.00	214.00	1.00	0.18	0.13	
			Q180011	213.00	214.00	1.00	0.21	0.12	
			Q180012	214.00	215.00	1.00	0.18	0.11	
			Q180013	215.00	216.00	1.00	0.06	0.06	
			Q180014	216.00	217.00	1.00	0.06	0.07	
			Q180016	217.00	218.00	1.00	0.21	0.12	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q180017	218.00	219.00	1.00	0.47	0.19	
		Q180018	219.00	220.00	1.00	0.34	0.19	
		Q180019	220.00	221.00	1.00	0.15	0.14	
		Q180020	221.00	222.00	1.00	0.11	0.24	
		Q180021	222.00	223.00	1.00	0.07	0.05	
		Q180022	223.00	224.00	1.00	0.04	0.08	
		Q180023	224.00	225.00	1.00	0.04	0.08	
		Q180025	225.00	226.00	1.00	0.06	0.1	
		Q180026	226.00	227.00	1.00	0.07	0.08	
		Q180027	227.00	228.00	1.00	0.06	0.07	
		Q180028	228.00	229.00	1.00	0.14	0.09	
		Q180029	229.00	230.00	1.00	0.12	0.08	
		Q180030	230.00	231.00	1.00	0.08	0.1	
		Q180031	230.00	231.00	1.00	0.09	0.09	
		Q180032	231.00	232.00	1.00	0.07	0.11	
		Q180033	232.00	233.00	1.00	0.08	0.08	
		Q180034	233.00	234.00	1.00	0.1	0.13	
		Q180036	234.00	235.00	1.00	0.1	0.1	
		Q180037	235.00	236.00	1.00	0.06	0.05	
		Q180038	236.00	237.00	1.00	0.09	0.09	
		Q180039	237.00	238.00	1.00	0.1	0.12	
		Q180040	238.00	239.00	1.00	0.12	0.12	
		Q180041	239.00	240.00	1.00	0.13	0.14	
		Q180042	240.00	241.00	1.00	0.27	0.15	
		Q180043	241.00	242.00	1.00	0.24	0.18	
		Q180045	242.00	243.00	1.00	0.23	0.17	
		Q180046	243.00	244.00	1.00	0.22	0.26	
		Q180047	244.00	245.00	1.00	0.24	0.21	
		Q180048	245.00	246.00	1.00	0.08	0.19	
		Q180049	246.00	247.00	1.00	0.12	0.09	
		Q180050	247.00	248.00	1.00	0.26	0.24	
		Q180051	247.00	248.00	1.00	0.23	0.25	
		Q180052	248.00	249.00	1.00	0.57	0.21	
		Q180053	249.00	249.53	0.53	0.8	0.28	
		Q180054	249.53	249.98	0.45	0.23	0.34	
		Q180056	249.98	251.00	1.02	0.76	1.06	
		Q180057	251.00	252.00	1.00	3.04	0.5	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q180058	252.00	253.28	1.28	1.69	0.19	
253.28	257.50	**MDOP Mafic Dyke with Graphitic Overprinting** Very dark green to black. Massive and moderately hard. Fine grained. Unit is mostly broken and fault related. Lower contact fault gouge at 13 dca.	Q180059	253.28	254.00	0.72	1.46	0.15	
			Q180060	254.00	255.00	1.00	2.28	0.58	
			Q180061	255.00	256.00	1.00	7.46	0.11	
			Q180062	256.00	257.00	1.00	5.09	0.11	
			Q180063	257.00	257.50	0.50	7.06	0.13	
257.50	268.44	**GRPBX Graphitic Breccia** Black and Massive. Fine to medium grained. Not a typical breccia unit with very strong graphite replacement and small round 1-3mm breccia fragments. 265.92 to 266.83 Overprinted syenite gneiss, Upper Contact at 19, Lower Contact at 57 dca. 266.83 to 267.35 Intermediate dyke at 57 dca. Lower contact at 40 dca.	Q180065	257.50	258.00	0.50	9.27	0.28	
			Q180066	258.00	259.00	1.00	10.1	0.28	2.59
			Q180067	259.00	260.00	1.00	9.61	0.26	2.6
			Q180068	260.00	261.00	1.00	9.34	0.27	2.61
			Q180069	261.00	262.00	1.00	9.64	0.25	2.61
			Q180071	262.00	263.00	1.00	10.1	0.25	
			Q180070	262.00	263.00	1.00	9.97	0.22	2.6
			Q180072	263.00	264.00	1.00	9.61	0.26	
			Q180073	264.00	265.00	1.00	9.02	0.26	
			Q180074	265.00	265.92	0.92	9.72	0.17	
			Q180076	265.92	266.83	0.91	0.44	0.17	
			Q180077	266.83	267.35	0.52	0.03	0.08	
			Q180078	267.35	268.74	1.39	6.79	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
268.44	284.66	**GRPBX Graphitic Breccia** Light grey with black graphite tinge and orange orthoclase tinge. Unit is 60% breccia and 40% overprinted syenite gneiss. Lower contact sharp at 115 dca.	Q180079	268.74	269.00	0.26	0.18	0.12	
			Q180080	269.00	270.00	1.00	0.31	0.21	
			Q180081	270.00	271.00	1.00	0.11	0.1	
			Q180082	271.00	272.00	1.00	0.3	0.04	
			Q180083	272.00	273.00	1.00	0.57	0.08	
			Q180085	273.00	274.00	1.00	0.34	0.29	
			Q180086	274.00	275.00	1.00	1.35	0.36	
			Q180087	275.00	276.00	1.00	1.7	0.28	
			Q180088	276.00	277.00	1.00	6.69	0.39	
			Q180089	277.00	278.00	1.00	3.36	0.39	
			Q180090	278.00	279.00	1.00	1.22	0.26	
			Q180091	278.00	279.00	1.00	1.21	0.25	
			Q180092	279.00	280.00	1.00	0.1	0.2	
			Q180093	280.00	281.00	1.00	4.56	0.14	
			Q180094	281.00	282.00	1.00	2.54	0.21	
			Q180096	282.00	283.00	1.00	8.85	0.21	
			Q180097	283.00	284.00	1.00	10.9	0.35	
			Q180098	284.00	284.66	0.66	4.42	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
284.66 -	296.21	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard syenite gneiss. Local minor dykes and breccia beds. 286.26 to 286.50 Mafic dyke, Upper Contact at 54, Lower Contact at 110 dca. 289.74 to 290.39 graphite breccia, Upper Contact at 75, Lower Contact at 149 dca. 292.00 to 294.45 Fault zone at 0 dca. Broken and blocky. 294.50 to 295.02 Graphite breccia at 60 dca. Lower contact at 90 dca.	Q180099	284.66	286.00	1.34	0.18	0.17	
			Q180100	286.00	287.00	1.00	2.6	0.79	
			Q180101	287.00	288.00	1.00	0.13	0.13	
			Q180102	288.00	289.00	1.00	0.1	0.14	
			Q180103	289.00	289.74	0.74	0.12	0.04	
			Q180105	289.74	290.39	0.65	5.42	0.39	
			Q180106	290.39	291.10	0.71	1.86	0.61	
			Q180107	291.10	292.00	0.90	0.58	0.17	
			Q180108	292.00	293.00	1.00	0.33	0.05	
			Q180109	293.00	294.00	1.00	1.1	0.11	
			Q180111	294.00	294.50	0.50	1.5	0.56	
			Q180110	294.00	294.50	0.50	1.51	0.56	
			Q180112	294.50	295.02	0.52	4.86	0.37	
			Q180113	295.02	296.21	1.19	0.25	0.18	
296.21 -	302.76	**ID Intermediate Dyke** Light green to green. Fine to medium grained. Massive Intermediate dyke unit. Very hard. Lower contact at 63 dca.	Q180114	296.21	297.00	0.79	0.04	0.21	
			Q180116	297.00	298.50	1.50	0.06	0.01	
			Q180117	298.50	300.00	1.50	0.07	0.02	
			Q180118	300.00	301.50	1.50	0.09	0.06	
			Q180119	301.50	302.76	1.26	1.31	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
302.76	336.13	**SYEN Syenite** Light grey with orange tinge. Massive but not typical syenite gneiss. Unit consists of large fragments of syenite gneiss brecciated in a felsic matrix. I think that this may be what the breccia unit might look like before the graphite comes in. Very hard. 318.53 to 318.69 Brecciated and hematite altered fault gouge at 45 dca. Very soft. Lower contact at 65 dca.	Q180120	302.76	304.00	1.24	0.01	0.14	
			Q180121	304.00	305.00	1.00	0.49	0.23	
			Q180122	305.00	306.00	1.00	0.17	0.26	
			Q180123	306.00	307.50	1.50	0.56	0.33	
			Q180125	307.50	309.00	1.50	0.17	0.31	
			Q180126	309.00	310.50	1.50	0.1	0.24	
			Q180127	310.50	312.00	1.50	0.16	0.27	
			Q180128	312.00	313.50	1.50	0.29	0.27	
			Q180129	313.50	315.00	1.50	0.14	0.27	
			Q180130	315.00	316.50	1.50	0.12	0.16	
			Q180131	315.00	316.50	1.50	0.11	0.17	
			Q180132	316.50	318.00	1.50	0.08	0.14	
			Q180133	318.00	319.50	1.50	0.12	0.14	
			Q180134	319.50	321.00	1.50	0.47	0.24	
			Q180136	321.00	322.50	1.50	0.09	0.15	
			Q180137	322.50	324.00	1.50	0.05	0.13	
			Q180138	324.00	325.50	1.50	0.1	0.15	
			Q180139	325.50	327.00	1.50	0.1	0.17	
			Q180140	327.00	328.50	1.50	0.22	0.21	
			Q180141	328.50	330.00	1.50	0.43	0.2	
			Q180142	330.00	331.50	1.50	0.51	0.23	
			Q180143	331.50	333.00	1.50	0.35	0.16	
			Q180145	333.00	334.00	1.00	0.02	0.13	
			Q180146	334.00	335.00	1.00	0.25	0.17	
			Q180147	335.00	336.13	1.13	0.31	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
336.13 -	351.23	**SYENSL Syenite Sill (unmineralized)** Light green. Medium to coarse grained. Massive and Hard. Possible abundant green feldspar? 336.97 to 337.36 Feldspar porphyry. Dark grey and fine grained. Round quartz eyes. Upper Contact at 90, Lower Contact at 65 dca. Lower contact at 59 dca.	Q180148	336.13	336.97	0.84	0.04	0.04	
			Q180149	336.97	337.36	0.39	0.01	0.06	
			Q180151	337.36	338.00	0.64	0.02	0.03	
			Q180150	337.36	338.00	0.64	0.03	0.03	
			Q180152	338.00	339.00	1.00	0.01	0.01	
			Q180153	339.00	340.50	1.50	0.02	0.03	
			Q180154	340.50	342.00	1.50	0.01	0.04	
			Q180156	342.00	343.50	1.50	0.01	0.01	
			Q180157	343.50	345.00	1.50	0.04	0.04	
			Q180158	345.00	346.50	1.50	0.01	0.03	
			Q180159	346.50	348.00	1.50	0.01	0.02	
			Q180160	348.00	349.00	1.00	0.02	0.02	
			Q180161	349.00	350.00	1.00	0.01	0.01	
			Q180162	350.00	351.23	1.23	0.01	0.03	
351.23 -	356.48	**DIOR Diorite** Medium to coarse grained. Massive. Light grey and pink. 50/50 feldspar and amphiboles. Massive and very hard. Lower contact at 47 dca.	Q180163	351.23	352.50	1.27	0.01	0.08	
			Q180165	352.50	354.00	1.50	0.02	0.09	
			Q180166	354.00	355.00	1.00	0.04	0.12	
			Q180167	355.00	356.48	1.48	0.01	0.15	
356.48 -	357.96	**ID Intermediate Dyke** Dark grey Fine grained. Massive and very hard. Lower contact at 53 dca.	Q180168	356.48	357.96	1.48	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
357.96	416.33	**SYENSL Syenite Sill (unmineralized)** Light green. Medium to coarse grained. Massive and hard, "gabbroic texture". Could be a diorite. Possible abundant green feldspar? Local finer grained interflows suggesting different stages of cooling. 396.00 to 416.33 Unit has numerous chilling stages and ranges from fine to coarse grained mafic intrusive. (dioritic to gabbroic). 400.68 to 401.12 Rapid chill margin with significant plagioclase. Upper Contact at 56, Lower Contact at 95 dca. 401.12 to 401.64 Pyrite and graphite, Lower contact of 4cm graphite at 75 dca. Lower contact at 41 dca.								
			Q180169	357.96	359.00	1.04	0.02	0.01	
			Q180170	359.00	360.00	1.00	0.02	0.01	
			Q180171	359.00	360.00	1.00	0.02	0.01	
			Q180172	360.00	361.50	1.50	0.01	0.03	
			Q180173	361.50	363.00	1.50	0.02	0.01	
			Q180174	363.00	364.50	1.50	0.01	0.03	
			Q180176	364.50	366.00	1.50	0.01	0.03	
			Q180177	366.00	367.50	1.50	0.01	0.06	
			Q180178	367.50	369.00	1.50	0.01	0.15	
			Q180179	369.00	370.50	1.50	0.06	0.03	
			Q180180	370.50	372.00	1.50	0.01	0.03	
			Q180181	372.00	373.50	1.50	0.02	0.06	
			Q180182	373.50	375.00	1.50	0.01	0.08	
			Q180183	375.00	376.50	1.50	0.03	0.03	
			Q180185	376.50	378.00	1.50	0.03	0.05	
			Q180186	378.00	379.50	1.50	0.01	0.02	
			Q180187	379.50	381.00	1.50	0.02	0.01	
			Q180188	381.00	382.50	1.50	0.03	0.02	
			Q180189	382.50	384.00	1.50	0.04	0.01	
			Q180190	384.00	385.50	1.50	0.03	0.01	
			Q180191	384.00	385.50	1.50	0.01	0.01	
			Q180192	385.50	387.00	1.50	0.01	0.02	
			Q180193	387.00	388.50	1.50	0.03	0.03	
			Q180194	388.50	390.00	1.50	0.02	0.02	
			Q180196	390.00	391.50	1.50	0.02	0.04	
			Q180197	391.50	393.00	1.50	0.01	0.07	
			Q180198	393.00	394.50	1.50	0.01	0.04	
			Q180199	394.50	396.00	1.50	0.02	0.23	
			Q180200	396.00	397.50	1.50	0.01	0.31	
			Q180201	397.50	399.00	1.50	0.01	0.03	
			Q180202	399.00	400.00	1.00	0.01	0.03	
			Q180203	400.00	400.68	0.68	0.01	0.22	
			Q180205	400.68	401.12	0.44	0.1	0.09	
			Q180206	401.12	401.64	0.52	1.52	0.27	
			Q180207	401.64	402.50	0.86	0.05	0.19	
			Q180208	402.50	404.00	1.50	0.02	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q180209	404.00	405.00	1.00	0.01	0.42	
			Q180210	405.00	406.50	1.50	0.01	0.16	
			Q180211	405.00	406.50	1.50	0.01	0.15	
			Q180212	406.50	408.00	1.50	0.02	0.05	
			Q180213	408.00	409.50	1.50	0.01	0.02	
			Q180214	409.50	411.00	1.50	0.02	0.05	
			Q180216	411.00	412.50	1.50	0.01	0.02	
			Q180217	412.50	414.00	1.50	0.02	0.02	
			Q180218	414.00	415.00	1.00	0.02	0.03	
			Q180219	415.00	416.33	1.33	0.03	0.03	
416.33	421.93	**SYENOP Syenite with Graphitic Overprinting**							
		Light grey with some pink tinges. Massive and very hard. Medium to coarse grained. 416.33 to 416.43 two 2-4cm biotite bands at 41 dca. Lower contact is gradational on a fracture filling graphite seam at 41 dca.	Q180220	416.33	417.00	0.67	0.08	0.23	
			Q180221	417.00	418.00	1.00	0.17	0.26	
			Q180222	418.00	419.00	1.00	0.07	0.32	
			Q180223	419.00	420.00	1.00	0.52	0.3	
			Q180225	420.00	421.00	1.00	0.42	0.15	
			Q180226	421.00	421.92	0.92	0.15	0.22	
			Q180227	421.92	423.00	1.08	2.57	0.18	
421.93	426.55	**GRPBX Graphitic Breccia**							
		Light grey with dark grey graphite brecciation. Massive. 60-70% breccia then overprinted gneiss. Lower contact irregular at 73 dca.	Q180228	423.00	424.00	1.00	1.8	0.21	
			Q180229	424.00	425.00	1.00	1.59	0.16	
			Q180231	425.00	426.00	1.00	3.44	0.14	
			Q180230	425.00	426.00	1.00	3.67	0.11	
			Q180232	426.00	426.55	0.55	1.29	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
426.55	430.76	**FD Felsic Dyke** Very dark grey Massive and very hard. 1-2mm light green phenocrysts. Unit may be mafic but I wish to distinguish it as not the typical mafic dykes. Fine grained not aphanitic as most felsic dykes. 426.70 to 426.95 Irregular syenite blob within Upper Contact at 47, Lower Contact at 128 dca. Lower contact very irregular at 77 dca.	Q180233	426.55	427.00	0.45	0.19	0.64	
			Q180234	427.00	428.00	1.00	0.01	0.3	
			Q180236	428.00	429.00	1.00	0.01	0.37	
			Q180237	429.00	430.00	1.00	0.01	0.24	
			Q180238	430.00	430.76	0.76	0.01	0.5	
430.76	432.22	**SYENOP Syenite with Graphitic Overprinting** Grey with some pink and orange tinge. Massive and very hard. Upper contact contains 1cm of graphite breccia along the irregular contact. 431.98 to 432.22 Intermediate dyke UC at 73 dca. Lower contact at 83 dca.	Q180239	430.76	431.50	0.74	0.33	0.26	
			Q180240	431.50	432.22	0.72	0.08	0.22	
432.22	441.27	**GRPBX Graphitic Breccia** Light grey with dark grey graphite breccia filling of matrix. Massive and very hard. 90% breccia, 10% syenite gneiss. Lower contact sharp at 77 dca.	Q180241	432.22	433.00	0.78	0.74	0.15	
			Q180242	433.00	434.00	1.00	0.86	0.14	
			Q180243	434.00	435.00	1.00	3.22	0.27	
			Q180245	435.00	436.00	1.00	2.74	0.23	
			Q180246	436.00	437.00	1.00	3.57	0.31	
			Q180247	437.00	438.00	1.00	1.38	0.09	
			Q180248	438.00	439.00	1.00	2.31	0.31	
			Q180249	439.00	440.00	1.00	2.31	0.4	
			Q180251	440.00	441.27	1.27	3.44	0.17	
			Q180250	440.00	441.27	1.27	3.4	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
441.27	444.49	**SYENOP Syenite with Graphitic Overprinting** Light grey with some orange tinge. Massive and very hard. Fracture filled graphite throughout. 441.27 to 441.59 Chlorite and biotite banding of upper contact. 442.89 to 443.27 Very strong graphite overprinted rock. Unknown dyke? Upper Contact at 67, Lower Contact at 41 dca. Lower contact at 57 dca.	Q180252	441.27	442.00	0.73	0.09	0.1	
			Q180253	442.00	442.89	0.89	0.39	0.1	
			Q180254	442.89	443.27	0.38	11.75	0.19	
			Q180256	443.27	444.49	1.22	0.25	0.12	
444.49	449.57	**SYENSL Syenite Sill (unmineralized)** Light green. Medium to coarse grained. Dioritic texture of 50% amphiboles 50% feldspars. Massive and very hard. Lower contact sharp at 87 dca.	Q180257	444.49	445.00	0.51	0.03	0.2	
			Q180258	445.00	446.00	1.00	0.01	0.22	
			Q180259	446.00	447.00	1.00	0.01	0.06	
			Q180260	447.00	448.00	1.00	0.01	0.07	
			Q180261	448.00	449.00	1.00	0.03	0.05	
			Q180262	449.00	449.57	0.57	0.01	0.03	
449.57	450.55	**ID Intermediate Dyke** Dark grey/green. Fine grained. Massive and very hard. Lower contact irregular at 107 dca.	Q180263	449.57	450.55	0.98	0.1	0.08	
450.55	454.76	**GRPBX Graphitic Breccia** Dark grey. Massive. Typical breccia. Lower contact sharp at 55 dca.	Q180265	450.55	451.00	0.45	1.17	0.38	
			Q180266	451.00	452.00	1.00	6.18	0.21	
			Q180267	452.00	453.00	1.00	5.24	0.18	
			Q180268	453.00	454.00	1.00	7.53	0.28	
			Q180269	454.00	454.76	0.76	0.89	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
454.76 -	460.33	**ID Intermediate Dyke** Light green to medium green. Massive and very hard. Fine grained. Lower contact fractured at 45 dca.	Q180271	454.76	456.00	1.24	0.06	0.12	
			Q180270	454.76	456.00	1.24	0.06	0.11	
			Q180272	456.00	457.50	1.50	0.06	0.07	
			Q180273	457.50	459.00	1.50	0.02	0.04	
			Q180274	459.00	460.33	1.33	0.05	0.1	
460.33 -	462.00	**MDOP Mafic Dyke with Graphitic Overprinting** Very dark grey/green to black. Massive dyke with 1mm square crystals. Weak to moderate graphite along fractures. Unit is well fractured and perhaps intruded along a fault. Lower contact fault gouge at 51 dca.	Q180276	460.33	461.00	0.67	0.14	0.2	
			Q180277	461.00	462.00	1.00	0.09	0.22	
462.00 -	464.13	**ID Intermediate Dyke** Medium to dark green. Massive and very hard. Fine grained. Lower contact at 59 dca	Q180278	462.00	463.00	1.00	0.06	0.21	
			Q180279	463.00	464.13	1.13	0.05	0.08	
464.13 -	465.56	**SYENOP Syenite with Graphitic Overprinting** Grey with some pink and orange tinge. Massive and very hard. Lower contact sharp at 145 dca.	Q180280	464.13	465.00	0.87	0.28	0.13	
			Q180281	465.00	465.56	0.56	3.48	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
465.56	470.87	**ID Intermediate Dyke** Light green to Dark green. Massive and very hard. Fine grained to medium grained. Unit consists of different dykes. 465.56 to 465.88 Dark green and fine grained dyke, Lower Contact at 41 dca. 465.88 to 466.27 Dark grey and fine grained dyke, Lower Contact at 39 dca. 466.27 to 466.87 Graphite breccia. Lower Contact at 115 dca. 466.87 to 467.10 Medium grained and light green dyke or chill margin, Lower Contact at 70 dca. 467.10 to 468.72 Fine grained and dark grey. Lower Contact at 43 dca. 468.72 to 470.87 Medium grained. Lower contact at 52 dca.							
			Q180282	465.56	466.27	0.71	5.02	0.08	
			Q180283	466.27	466.87	0.60	5.11	0.11	
			Q180285	466.87	468.00	1.13	0.04	0.12	
			Q180286	468.00	468.72	0.72	0.08	0.07	
			Q180287	468.72	470.00	1.28	0.1	0.05	
			Q180288	470.00	470.87	0.87	0.1	0.1	
470.87	477.88	**GRPBX Graphitic Breccia** Dark grey. Massive. 60% Typical breccia. 40% syenite gneiss. Lower contact at 45 dca.							
			Q180289	470.87	472.00	1.13	3.43	0.23	
			Q180291	472.00	473.00	1.00	2.95	0.29	
			Q180290	472.00	473.00	1.00	2.86	0.26	
			Q180292	473.00	474.00	1.00	4.05	0.1	
			Q180293	474.00	475.00	1.00	1.08	0.18	
			Q180294	475.00	476.00	1.00	2.32	0.22	
			Q180296	476.00	477.00	1.00	1.45	0.15	
			Q180297	477.00	477.88	0.88	3.04	0.33	
477.88	481.40	**SYEN Syenite** Light grey with pink and orange tinge. Massive and very hard. Lower contact at 51 dca.							
			Q180298	477.88	479.00	1.12	0.07	0.18	
			Q180299	479.00	480.00	1.00	0.06	0.07	
			Q180300	480.00	481.40	1.40	0.06	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
481.40	486.73	**GRPBX Graphitic Breccia** Dark grey with very dark grey to black graphite matrix. 484.09 to 484.47 Diorite dyke, Upper Contact at 69 dca, Lower Contact at 47 dca. 484.65 to 485.35 Intermediate dyke at 55 dca. Lower contact at 73 dca.	Q180301	481.40	482.00	0.60	3.73	0.12	
			Q180302	482.00	483.00	1.00	2.53	0.29	
			Q180303	483.00	484.09	1.09	3.9	0.47	
			Q180305	484.09	484.65	0.56	1.6	0.45	
			Q180306	484.65	485.35	0.70	0.05	0.09	
			Q180307	485.35	486.00	0.65	3.21	0.45	
			Q180308	486.00	486.73	0.73	3.64	0.15	
486.73	496.63	**ID Intermediate Dyke** Green Massive and fine grained. Very hard. Lower contact sharp at 63 dca.	Q180309	486.73	488.00	1.27	0.01	0.05	
			Q180311	488.00	489.00	1.00	0.05	0.05	
			Q180310	488.00	489.00	1.00	0.03	0.05	
			Q180312	489.00	490.50	1.50	0.03	0.04	
			Q180313	490.50	492.00	1.50	0.03	0.1	
			Q180314	492.00	493.50	1.50	0.06	0.09	
			Q180316	493.50	495.00	1.50	0.03	0.06	
			Q180317	495.00	496.00	1.00	0.03	0.06	
			Q180318	496.00	496.63	0.63	0.04	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
496.63	516.94	**SYENOP Syenite with Graphitic Overprinting** Light grey with pink and orange tinge. Massive. Medium grained. Very hard. Local minor graphite fracture filling. 503.41 to 503.50 Intermediate dyke at 59 dca. 514 to 515 strongly fractured. 516.47 to 516.69 Diorite dyke at 45 to 65 dca. Lower contact at 65 dca.	Q180319	496.63	498.00	1.37	0.12	0.17	
			Q180320	498.00	499.00	1.00	0.21	0.2	
			Q180321	499.00	500.00	1.00	0.19	0.16	
			Q180322	500.00	501.00	1.00	0.07	0.2	
			Q180323	501.00	502.00	1.00	0.14	0.24	
			Q180325	502.00	503.00	1.00	1.21	0.21	
			Q180326	503.00	504.00	1.00	0.23	0.09	
			Q180327	504.00	505.00	1.00	0.18	0.16	
			Q180328	505.00	506.00	1.00	0.94	0.23	
			Q180329	506.00	507.00	1.00	0.07	0.14	
			Q180331	507.00	508.00	1.00	0.16	0.21	
			Q180330	507.00	508.00	1.00	0.17	0.19	
			Q180332	508.00	509.00	1.00	0.14	0.19	
			Q180333	509.00	510.00	1.00	0.17	0.23	
			Q180334	510.00	511.00	1.00	0.1	0.21	
			Q180336	511.00	512.00	1.00	0.2	0.17	
			Q180337	512.00	513.00	1.00	0.09	0.16	
			Q180338	513.00	514.00	1.00	0.13	0.22	
			Q180339	514.00	515.00	1.00	0.14	0.15	
			Q180340	515.00	516.00	1.00	0.41	0.12	
			Q180341	516.00	516.47	0.47	0.96	0.11	
			Q180342	516.47	516.94	0.47	0.06	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
516.94	539.81	**SYENSL Syenite Sill (unmineralized)** Light green. Ranging from fine to medium grained. Massive salt and pepper texture. Very hard. 517.74 to 518.15 Chlorite biotite alteration mafic dyke. Upper Contact at 47 dca, Lower Contact at 125 dca, 537.54 to 539.81 Coarser grained lighter coloured diorite. Upper Contact at 63. Lower contact at 51 dca.	Q180343	516.94	517.74	0.80	0.04	0.14	
			Q180345	517.74	518.15	0.41	0.1	0.01	
			Q180346	518.15	519.00	0.85	0.05	0.11	
			Q180347	519.00	520.50	1.50	0.01	0.08	
			Q180348	520.50	522.00	1.50	0.03	0.1	
			Q180349	522.00	523.50	1.50	0.03	0.05	
			Q180350	523.50	525.00	1.50	0.09	0.15	
			Q180351	523.50	525.00	1.50	0.02	0.16	
			Q180352	525.00	526.50	1.50	0.03	0.06	
			Q180353	526.50	528.00	1.50	0.02	0.04	
			Q180354	528.00	529.50	1.50	0.03	0.04	
			Q180356	529.50	531.00	1.50	0.01	0.03	
			Q180357	531.00	532.50	1.50	0.01	0.04	
			Q180358	532.50	534.00	1.50	0.01	0.06	
			Q180359	534.00	535.50	1.50	0.03	0.07	
			Q180360	535.50	537.00	1.50	0.03	0.04	
			Q180361	537.00	537.54	0.54	0.03	0.04	
			Q180362	537.54	538.50	0.96	0.01	0.04	
			Q180363	538.50	539.81	1.31	0.03	0.07	
539.81	550.73	**SYEN Syenite** Grey to light grey with pink and orange tinge. Massive and very hard. Lower contact at 61 dca. 550.00 to 550.73 fracture filling graphite.	Q180365	539.81	541.00	1.19	0.24	0.15	
			Q180366	541.00	542.00	1.00	0.28	0.22	
			Q180367	542.00	543.00	1.00	0.09	0.12	
			Q180368	543.00	544.50	1.50	0.05	0.14	
			Q180369	544.50	546.00	1.50	0.11	0.12	
			Q180371	546.00	547.50	1.50	0.07	0.13	
			Q180370	546.00	547.50	1.50	0.02	0.14	
			Q180372	547.50	549.00	1.50	0.04	0.21	
			Q180373	549.00	550.00	1.00	0.33	0.14	
			Q180374	550.00	550.73	0.73	2.68	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
550.73	551.65	**MD Mafic Dyke** Green with biotite. Moderately hard. Lower contact at 63 dca.	Q180376	550.73	551.65	0.92	0.15	0.51	
551.65	555.51	**SYEN Syenite** Light grey to white. Syenite gneiss with less orthoclase and more quartz. Massive. Medium grained. Very hard.	Q180377	551.65	553.00	1.35	0.14	0.08	
			Q180378	553.00	554.50	1.50	0.17	0.16	
			Q180379	554.50	555.51	1.01	0.1	0.14	
555.51	561.00	**DIOR Diorite** Medium grained with pink orthoclase. Grading towards a granite? Red tinge when wet. Massive and very hard. EOH 561.0m	Q180380	555.51	557.00	1.49	0.02	0.14	
			Q180381	557.00	558.00	1.00	0.01	0.09	
			Q180382	558.00	559.50	1.50	0.02	0.03	
			Q180383	559.50	561.00	1.50	0.05	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	339.00	05/07/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545766	683014.5			Reflex APS		09/07/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.40	199.80		-49.20	Chibougamau Diamond Drilling		09/07/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	273	Casing Pulled	Casing (1)	66.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test East Pipe from the Northeast	This hole intersected 115.5m of well mineralized graphitic breccia and fractured syenite from 94.3 to 209.8m. From 70.00m to 339.00m, the assays averaged 3.33% Cg over 269.00m; within this intersection a higher grade graphite zone from 94.3m to 209.80m averaged 6.94% Cg over 115.50m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
72.00			208.6	199.6	-49.5	-49.5	☑	Reflex EZ	56971	
75.00			209.8	200.8	-49.1	-49.1	☑	Reflex EZ	56535	
78.00			207.9	198.9	-49.8	-49.8	☑	Reflex EZ	56430	
81.00			207.1	198.1	-50	-50	☑	Reflex EZ	56387	
84.00			207.9	198.9	-49.4	-49.4	☑	Reflex EZ	56343	
87.00			210	201	-49	-49	☑	Reflex EZ	56322	
90.00			207.5	198.5	-49.4	-49.4	☑	Reflex EZ	56351	
93.00			208.7	199.7	-49.5	-49.5	☑	Reflex EZ	56302	
96.00			208.2	199.2	-49.8	-49.8	☑	Reflex EZ	56309	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
99.00			208.6	199.6	-49.7	-49.7	☑	Reflex EZ	56315	
102.00			209.7	200.7	-49.5	-49.5	☑	Reflex EZ	56344	
105.00			211.9	202.9	-48.6	-48.6	☑	Reflex EZ	56362	
108.00			208.3	199.3	-49.6	-49.6	☑	Reflex EZ	56274	
111.00			209.7	200.7	-49.6	-49.6	☑	Reflex EZ	56294	
114.00			209.8	200.8	-49.7	-49.7	☑	Reflex EZ	56312	
117.00			209.5	200.5	-49.8	-49.8	☑	Reflex EZ	56339	
120.00			210	201	-49.7	-49.7	☑	Reflex EZ	56330	
123.00			210	201	-49.8	-49.8	☑	Reflex EZ	56330	
126.00			209.5	200.5	-49.7	-49.7	☑	Reflex EZ	56268	
129.00			209.7	200.7	-49.8	-49.8	☑	Reflex EZ	56274	
132.00			208.3	199.3	-49.8	-49.8	☑	Reflex EZ	56297	
135.00			209.1	200.1	-49.8	-49.8	☑	Reflex EZ	56250	
138.00			209.2	200.2	-50	-50	☑	Reflex EZ	56291	
141.00			209.9	200.9	-50	-50	☑	Reflex EZ	56306	
144.00			209	200	-50.1	-50.1	☑	Reflex EZ	56302	
147.00			209.6	200.6	-50	-50	☑	Reflex EZ	56292	
150.00			210.3	201.3	-49.9	-49.9	☑	Reflex EZ	56300	
153.00			209.5	200.5	-49.9	-49.9	☑	Reflex EZ	56262	
156.00			208.7	199.7	-50	-50	☑	Reflex EZ	56283	
159.00			208.7	199.7	-50.2	-50.2	☑	Reflex EZ	56319	
162.00			210.1	201.1	-50.1	-50.1	☑	Reflex EZ	56317	
165.00			208.6	199.6	-50	-50	☑	Reflex EZ	56273	
168.00			212.1	203.1	-50.4	-50.4	☑	Reflex EZ	56292	
171.00			213.9	204.9	-48.4	-48.4	☑	Reflex EZ	56299	
174.00			210.6	201.6	-49.9	-49.9	☑	Reflex EZ	56280	
177.00			210	201	-50.1	-50.1	☑	Reflex EZ	56281	
180.00			209.9	200.9	-49.9	-49.9	☑	Reflex EZ	56247	
183.00			210.4	201.4	-49.9	-49.9	☑	Reflex EZ	56274	
186.00			208.9	199.9	-50.2	-50.2	☑	Reflex EZ	56321	
189.00			210.6	201.6	-49.9	-49.9	☑	Reflex EZ	56291	
192.00			207.2	198.2	-51.1	-51.1	☑	Reflex EZ	56257	
195.00			210.5	201.5	-49.8	-49.8	☑	Reflex EZ	56260	
198.00			208.8	199.8	-49.9	-49.9	☑	Reflex EZ	56323	
201.00			209.3	200.3	-49.8	-49.8	☑	Reflex EZ	56273	
204.00			209.2	200.2	-49.8	-49.8	☑	Reflex EZ	56290	
207.00			211.1	202.1	-49.7	-49.7	☑	Reflex EZ	56310	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			209.7	200.7	-50	-50	☑	Reflex EZ	56309	
213.00			209.1	200.1	-49.9	-49.9	☑	Reflex EZ	56325	
216.00			209.6	200.6	-49.7	-49.7	☑	Reflex EZ	56276	
219.00			211.2	202.2	-49.7	-49.7	☑	Reflex EZ	56323	
222.00			210.5	201.5	-49.9	-49.9	☑	Reflex EZ	56299	
225.00			211.6	202.6	-49.7	-49.7	☑	Reflex EZ	56243	
228.00			210.5	201.5	-49.9	-49.9	☑	Reflex EZ	56303	
231.00			210.7	201.7	-49.6	-49.6	☑	Reflex EZ	56281	
234.00			209.1	200.1	-49.7	-49.7	☑	Reflex EZ	56348	
237.00			210.4	201.4	-49.8	-49.8	☑	Reflex EZ	56296	
243.00			209.8	200.8	-49.7	-49.7	☑	Reflex EZ	56463	
246.00			210.3	201.3	-49.8	-49.8	☑	Reflex EZ	56333	
249.00			210.8	201.8	-49.7	-49.7	☑	Reflex EZ	56301	
252.00			211.5	202.5	-49.6	-49.6	☑	Reflex EZ	56349	
255.00			209.6	200.6	-49.6	-49.6	☑	Reflex EZ	56348	
258.00			210.9	201.9	-49.7	-49.7	☑	Reflex EZ	56239	
261.00			211.2	202.2	-49.6	-49.6	☑	Reflex EZ	56315	
264.00			211.4	202.4	-49.6	-49.6	☑	Reflex EZ	56469	
267.00			211.1	202.1	-49.2	-49.2	☑	Reflex EZ	56324	
270.00			210.1	201.1	-49.3	-49.3	☑	Reflex EZ	56322	
273.00			211.2	202.2	-49.5	-49.5	☑	Reflex EZ	56340	
276.00			211.5	202.5	-49.5	-49.5	☑	Reflex EZ	56379	
279.00			211.6	202.6	-49.3	-49.3	☑	Reflex EZ	56317	
282.00			209.8	200.8	-49.5	-49.5	☑	Reflex EZ	56328	
288.00			210	201	-49.7	-49.7	☑	Reflex EZ	56414	
291.00			211.4	202.4	-49.4	-49.4	☑	Reflex EZ	56360	
294.00			210.8	201.8	-49.7	-49.7	☑	Reflex EZ	56262	
297.00			210.6	201.6	-49.7	-49.7	☑	Reflex EZ	56387	
300.00			210.1	201.1	-49.4	-49.4	☑	Reflex EZ	56411	
303.00			210.9	201.9	-49.7	-49.7	☑	Reflex EZ	56499	
306.00			209.5	200.5	-49.5	-49.5	☑	Reflex EZ	56339	
309.00			209.9	200.9	-49.6	-49.6	☑	Reflex EZ	56439	
312.00			213.3	204.3	-49.4	-49.4	☑	Reflex EZ	56286	
315.00			213.8	204.8	-49.5	-49.5	☑	Reflex EZ	56547	
318.00			212.9	203.9	-49.4	-49.4	☑	Reflex EZ	56155	
321.00			210.3	201.3	-49.6	-49.6	☑	Reflex EZ	56365	
324.00			211.9	202.9	-49.5	-49.5	☑	Reflex EZ	56383	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
327.00			212.3	203.3	-49.4	-49.4	☑	Reflex EZ	56435	
330.00			210.2	201.2	-49.6	-49.6	☑	Reflex EZ	56444	
333.00			211.9	202.9	-49.6	-49.6	☑	Reflex EZ	56409	
336.00			212.1	203.1	-49.5	-49.5	☑	Reflex EZ	56435	
339.00			212.4	203.4	-49.6	-49.6	☑	Reflex EZ	56413	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	66.00	**OB Overburden** From 0.0 to 61.9 unknown overburden. From 61.9 to 66 bolder size fragments of sediments (limestone, siltstone) and granite and other intrusives, grounded core fragments.							
66.00	66.80	**SED Sediment** Dark grey, fine grained, locally vuggy sandy siltstone.							
66.80	67.60	**FLT Fault Zone** Reddish-brown clay on top of a paleo-weathered syenite section.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
67.60	94.30	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown, massive syenite with weak graphite overprinting as fracture filling graphite veinlets. From 68.5 to 78 numerous fracture filling albite veinlets 2-5mm, randomly oriented. Dark green clay at 78m along a 5cm fault. Moderate graphite from 86 to 87m as fracture filling veinlets. 5cm fault gouge at 91.8m.	Q180385	68.00	69.00	1.00	0.59	0.14	
			Q180386	69.00	70.00	1.00	1	0.08	
			Q180387	70.00	71.00	1.00	1.82	0.04	
			Q180388	71.00	72.00	1.00	0.62	0.08	
			Q180389	72.00	73.00	1.00	0.28	0.15	
			Q180390	73.00	74.00	1.00	0.27	0.2	
			Q180392	74.00	75.00	1.00	0.34	0.15	
			Q180393	75.00	76.00	1.00	0.33	0.08	
			Q180394	76.00	77.00	1.00	1.26	0.08	
			Q180396	77.00	78.00	1.00	1.37	0.03	
			Q180397	78.00	79.00	1.00	2.01	0.04	
			Q180398	79.00	80.00	1.00	0.86	0.03	
			Q180399	80.00	81.00	1.00	1.06	0.04	
			Q180400	81.00	82.00	1.00	0.82	0.04	
			Q180401	82.00	83.00	1.00	0.72	0.03	
			Q180402	83.00	84.00	1.00	0.1	0.15	
			Q180403	84.00	85.00	1.00	0.86	0.03	
			Q180405	85.00	86.00	1.00	0.51	0.04	
			Q180406	86.00	87.00	1.00	2.99	0.38	
			Q180407	87.00	88.00	1.00	1.15	0.05	
			Q180408	88.00	89.00	1.00	0.95	0.04	
			Q180409	89.00	90.00	1.00	0.39	0.1	
			Q180410	90.00	91.00	1.00	1.08	0.06	
			Q180412	91.00	92.00	1.00	1.39	0.07	
			Q180413	92.00	93.00	1.00	1.19	0.12	
			Q180414	93.00	94.30	1.30	0.63	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
94.30	124.40	**GRPBX Graphitic Breccia** Dark grey to brownish-red, medium grained fractured syenite. Good graphite content mainly as fracture filling veins and graphite flooding in the matrix. Upper contact sharp at 45 dca. Numerous sections 5-15cm long of almost massive graphitic veins	Q180416	94.30	95.20	0.90	8.85	0.03	
			Q180417	95.20	96.10	0.90	6.17	0.04	
			Q180418	96.10	97.00	0.90	5.44	0.03	
			Q180419	97.00	98.00	1.00	4.16	0.03	
			Q180420	98.00	99.00	1.00	4.67	0.03	
			Q180421	99.00	100.00	1.00	3.83	0.03	
			Q180422	100.00	101.00	1.00	5.49	0.04	
			Q180423	101.00	102.00	1.00	6.74	0.03	
			Q180425	102.00	103.00	1.00	8.05	0.04	
			Q180426	103.00	104.00	1.00	8.54	0.03	
			Q180427	104.00	105.00	1.00	10	0.03	
			Q180428	105.00	106.00	1.00	6.19	0.03	
			Q180429	106.00	107.00	1.00	5.51	0.08	
			Q180430	107.00	108.00	1.00	14.5	0.19	
			Q180432	108.00	109.00	1.00	6.51	0.03	
			Q180433	109.00	110.00	1.00	7.73	0.04	
			Q180434	110.00	111.00	1.00	9.25	0.08	
			Q180436	111.00	112.00	1.00	11.1	0.06	
			Q180437	112.00	113.00	1.00	7.18	0.06	2.49
			Q180438	113.00	114.00	1.00	10.6	0.07	2.5
			Q180439	114.00	115.00	1.00	9.08	0.08	2.51
			Q180440	115.00	116.00	1.00	12	0.06	2.56
			Q180441	116.00	117.00	1.00	10.3	0.1	2.55
			Q180442	117.00	118.00	1.00	9.41	0.12	
			Q180443	118.00	119.00	1.00	9.36	0.09	
			Q180445	119.00	120.00	1.00	6.24	0.1	
			Q180446	120.00	121.00	1.00	7.63	0.12	
			Q180447	121.00	122.00	1.00	2.92	0.09	
			Q180448	122.00	123.20	1.20	11.5	0.24	
			Q180449	123.20	124.40	1.20	6.33	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
124.40	126.85	**SYEN Syenite** Reddish-brown, massive, medium grained syenite section. No visible graphite.	Q180450	124.40	125.30	0.90	0.35	0.17	
			Q180452	125.30	126.10	0.80	0.32	0.16	
			Q180453	126.10	126.85	0.75	0.26	0.24	
126.85	142.80	**GRPBX Graphitic Breccia** Dark grey to brownish-red, medium grained fractured syenite. Good graphite content mainly as fracture filling veins and graphite flooding in the matrix.	Q180454	126.85	127.90	1.05	5.26	0.19	
			Q180456	127.90	129.00	1.10	10.7	0.2	
			Q180457	129.00	130.00	1.00	10.4	0.18	
			Q180458	130.00	131.00	1.00	5.77	0.16	
			Q180459	131.00	132.00	1.00	7.16	0.22	
			Q180460	132.00	133.00	1.00	3.79	0.23	
			Q180461	133.00	134.00	1.00	12	0.21	
			Q180462	134.00	135.00	1.00	6.94	0.18	
			Q180463	135.00	136.00	1.00	3.49	0.2	
			Q180465	136.00	137.00	1.00	9.03	0.19	
			Q180466	137.00	138.00	1.00	6.25	0.25	2.59
			Q180467	138.00	139.00	1.00	9.13	0.18	2.52
			Q180468	139.00	140.00	1.00	4.22	0.14	2.55
			Q180469	140.00	141.00	1.00	4.33	0.23	2.61
			Q180470	141.00	142.00	1.00	8.86	0.14	2.55
			Q180472	142.00	142.80	0.80	9.06	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
142.80 -	153.00	**SYENOP Syenite with Graphitic Overprinting** Predominantly medium to dark grey fractured syenite with up to 40% graphitic breccia sections that vary in length from 05 to 1.5m.	Q180473	142.80	144.00	1.20	0.42	0.31	
			Q180474	144.00	145.00	1.00	10.3	0.27	
			Q180476	145.00	146.00	1.00	2.04	0.27	
			Q180477	146.00	147.00	1.00	5.26	0.22	
			Q180478	147.00	148.00	1.00	3.62	0.24	
			Q180479	148.00	149.00	1.00	5.81	0.21	
			Q180480	149.00	150.00	1.00	5.8	0.27	
			Q180481	150.00	151.00	1.00	4.2	0.33	
			Q180482	151.00	152.00	1.00	7.27	0.17	
			Q180483	152.00	153.00	1.00	7.87	0.23	
153.00 -	162.00	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite with good graphite in the matrix and as fracture filling veinlets. Odd dark green mafic dyke sub-angular fragments of mafic composition.	Q180485	153.00	154.00	1.00	8.79	0.22	
			Q180486	154.00	155.00	1.00	9.28	0.27	
			Q180487	155.00	156.00	1.00	6.85	0.24	
			Q180488	156.00	157.00	1.00	8.23	0.32	
			Q180489	157.00	158.00	1.00	10.6	0.25	
			Q180490	158.00	159.00	1.00	8.06	0.31	
			Q180492	159.00	160.00	1.00	8.24	0.29	
			Q180493	160.00	161.00	1.00	7.62	0.23	
			Q180494	161.00	162.00	1.00	7.13	0.22	
162.00 -	163.65	**SYENOP Syenite with Graphitic Overprinting** Brownish-grey, massive, syenite with weak graphite overprinting as hairline fracture filling graphite veinlets.	Q180496	162.00	162.80	0.80	1.5	0.32	
			Q180497	162.80	163.65	0.85	2.01	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
163.65	178.15	**GRPBX Graphitic Breccia** Dark grey to brownish-grey brecciated syenite with good graphite content in the matrix and as fracture filling veinlets. Few sub angular dark green mafic fragments 5-10cm. 50cm lost core from 166.5 to 167, angular fragments 1-5cm grounded core. Lower contact sharp at 30 dca.	Q180498	163.65	165.00	1.35	9.4	0.26	
			Q180499	165.00	166.00	1.00	6.61	0.2	
			Q180500	166.00	167.00	1.00	4.5	0.12	
			Q180501	167.00	168.00	1.00	6.96	0.23	
			Q180502	168.00	169.00	1.00	8.93	0.2	
			Q180503	169.00	170.00	1.00	11.2	0.2	
			Q180505	170.00	171.00	1.00	8.26	0.21	
			Q180506	171.00	172.00	1.00	11.5	0.18	
			Q180507	172.00	173.00	1.00	7.91	0.26	
			Q180508	173.00	174.00	1.00	5.89	0.21	
			Q180509	174.00	175.00	1.00	7.43	0.19	
			Q180510	175.00	176.00	1.00	9.79	0.26	
			Q180512	176.00	177.00	1.00	11.6	0.24	
			Q180513	177.00	178.15	1.15	13.1	0.29	
178.15	182.03	**SYENOP Syenite with Graphitic Overprinting** Reddish-brown, massive medium grained syenite with weak graphite overprinting as fracture filling veinlets at 179.9 and 181.8m.	Q180514	178.15	179.10	0.95	0.45	0.28	
			Q180516	179.10	180.00	0.90	8.92	0.24	
			Q180517	180.00	181.00	1.00	0.73	0.31	
			Q180518	181.00	182.03	1.03	1.4	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.03	209.80	**GRPBX Graphitic Breccia** Dark grey to brownish-grey brecciated syenite. Good graphite content in the matrix. Minor carbonate in-between graphite veinlets at 198.2. Trace sulphides as isolated mm size pyrite blebs. Dark green, mafic fragments from 200 to 202. Lower contact sharp at 45 dca.	Q180519	182.03	183.00	0.97	3.34	0.24	
			Q180520	183.00	184.00	1.00	5.76	0.36	
			Q180521	184.00	185.00	1.00	4.05	0.44	
			Q180522	185.00	186.00	1.00	7.72	0.31	
			Q180523	186.00	187.00	1.00	7.46	0.42	
			Q180525	187.00	188.00	1.00	6.32	0.27	
			Q180526	188.00	189.00	1.00	11.8	0.24	2.58
			Q180527	189.00	190.00	1.00	1.77	0.27	2.62
			Q180528	190.00	191.00	1.00	0.85	0.27	2.61
			Q180529	191.00	192.00	1.00	9.68	0.23	2.56
			Q180530	192.00	193.00	1.00	8.14	0.25	2.6
			Q180532	193.00	194.00	1.00	6.34	0.31	
			Q180533	194.00	195.00	1.00	5.39	0.29	
			Q180534	195.00	196.00	1.00	9.16	0.27	
			Q180536	196.00	197.00	1.00	7.01	0.22	
			Q180537	197.00	198.00	1.00	5	0.23	
			Q180538	198.00	199.00	1.00	7.38	0.32	
			Q180539	199.00	200.00	1.00	4.51	0.39	
			Q180540	200.00	201.00	1.00	5.15	0.28	
			Q180541	201.00	202.00	1.00	10.1	0.24	
			Q180542	202.00	203.00	1.00	11.6	0.34	
			Q180543	203.00	204.00	1.00	8.46	0.32	
			Q180545	204.00	205.00	1.00	6.33	0.22	
			Q180546	205.00	206.00	1.00	2.96	0.33	
			Q180547	206.00	207.00	1.00	1.39	0.3	
			Q180548	207.00	208.00	1.00	6.63	0.26	
			Q180549	208.00	209.00	1.00	10.4	0.22	
			Q180550	209.00	209.80	0.80	4.49	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
209.80	238.25	**SYENOP Syenite with Graphitic Overprinting** Medium grey to locally dark grey, medium grained, massive syenite. Weak to locally moderate graphite overprinting as hairline fracture filling veinlets. Lower contact sharp at 15 dca.	Q180552	209.80	210.90	1.10	0.17	0.27	
			Q180553	210.90	212.00	1.10	0.25	0.28	
			Q180554	212.00	213.00	1.00	0.36	0.27	
			Q180556	213.00	214.00	1.00	0.57	0.41	
			Q180557	214.00	214.90	0.90	0.32	0.33	
			Q180558	214.90	216.00	1.10	0.77	0.36	
			Q180559	216.00	217.00	1.00	0.5	0.37	
			Q180560	217.00	218.00	1.00	0.18	0.31	
			Q180561	218.00	219.00	1.00	0.19	0.35	
			Q180562	219.00	220.00	1.00	0.24	0.29	
			Q180563	220.00	221.00	1.00	0.15	0.24	
			Q180565	221.00	222.00	1.00	0.48	0.19	
			Q180566	222.00	223.00	1.00	0.34	0.08	
			Q180567	223.00	224.00	1.00	0.14	0.22	
			Q180568	224.00	225.00	1.00	0.62	0.32	
			Q180569	225.00	226.00	1.00	0.2	0.26	
			Q180570	226.00	227.00	1.00	0.1	0.18	
			Q180572	227.00	228.00	1.00	0.23	0.15	
			Q180573	228.00	229.00	1.00	0.16	0.37	
			Q180574	229.00	230.00	1.00	0.26	0.42	
			Q180576	230.00	231.00	1.00	0.63	0.49	
			Q180577	231.00	232.00	1.00	1.75	0.51	
			Q180578	232.00	233.00	1.00	0.28	0.47	
			Q180579	233.00	234.00	1.00	0.37	0.26	
			Q180580	234.00	235.00	1.00	1.12	0.13	
			Q180581	235.00	236.00	1.00	0.99	0.17	
			Q180582	236.00	237.00	1.00	0.46	0.21	
			Q180583	237.00	238.25	1.25	0.27	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
238.25	245.75	**GRDROP Granodiorite with Graphitic Overprinting** Medium grey to greenish-grey. Salt and pepper look. Massive medium to coarse grained granodiorite. Up to 25% amphibole/biotite. Weak graphite overprinting as hairline fracture filling veinlets at 242m. Weak gneissic banding. Lower contact sharp at 40 dca.	Q180585	238.25	239.10	0.85	0.07	0.46	
			Q180586	239.10	240.00	0.90	0.08	0.27	
			Q180587	240.00	241.00	1.00	0.25	0.4	
			Q180588	241.00	242.00	1.00	0.09	0.72	
			Q180589	242.00	243.00	1.00	0.86	0.56	
			Q180590	243.00	243.90	0.90	0.35	0.57	
			Q180592	243.90	244.80	0.90	0.08	0.23	
			Q180593	244.80	245.75	0.95	0.21	0.28	
245.75	247.45	**SYEN Syenite** Light grey to pinkish grey, massive, coarse grained syenite. Coarse, subhedral feldspars 5-10mm. Lower contact sharp at 55 dca. No visible graphite.	Q180594	245.75	246.60	0.85	0.2	0.2	
			Q180596	246.60	247.45	0.85	0.15	0.17	
247.45	249.05	**GRDR Granodiorite** Greenish-grey with a pinkish hue, massive coarse grained granodiorite. Salt and pepper texture. Weak gneissic banding. No visible graphite.	Q180597	247.45	248.25	0.80	0.09	0.31	
			Q180598	248.25	249.05	0.80	0.06	0.36	
249.05	254.45	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained syenite with weak to moderate graphite overprinting as fracture filling veinlets. From 250.9 to 251.9 moderately fractured core, dark brown, fine grained mafic dyke with moderate graphite overprinting.	Q180599	249.05	250.00	0.95	4.04	0.54	
			Q180600	250.00	250.90	0.90	4.92	0.71	
			Q180601	250.90	251.90	1.00	4.54	0.23	
			Q180602	251.90	252.70	0.80	0.47	0.03	
			Q180603	252.70	253.60	0.90	2.29	0.26	
			Q180605	253.60	254.45	0.85	1.03	0.58	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
254.45 -	259.12	**FD Felsic Dyke** Light grey to pinkish-grey, massive, fine grained granodiorite. Upper contact not very clear. Lower contact sharp at 30 dca. No visible graphite.	Q180606	254.45	255.35	0.90	0.02	0.37	
			Q180607	255.35	256.15	0.80	0.04	0.4	
			Q180608	256.15	257.15	1.00	0.01	0.23	
			Q180609	257.15	258.15	1.00	0.01	0.29	
			Q180610	258.15	259.12	0.97	0.04	0.35	
259.12 -	276.20	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey with pinkish hue, medium to coarse grained, massive syenite. Weak graphite overprinting as hairline fracture filling veinlets at 264 to 265; 272-273. Light pink, fine grained felsic dyke from 265-265.5m at 20 dca.	Q180612	259.12	260.05	0.93	0.67	0.16	
			Q180613	260.05	261.00	0.95	0.33	0.23	
			Q180614	261.00	262.00	1.00	0.51	0.33	
			Q180616	262.00	263.00	1.00	0.2	0.21	
			Q180617	263.00	264.00	1.00	0.45	0.22	
			Q180618	264.00	265.00	1.00	1.92	0.53	
			Q180619	265.00	266.00	1.00	0.85	0.56	
			Q180620	266.00	267.00	1.00	0.24	0.21	
			Q180621	267.00	268.00	1.00	0.11	0.24	
			Q180622	268.00	269.00	1.00	0.3	0.31	
			Q180623	269.00	270.00	1.00	0.47	0.3	
			Q180625	270.00	271.00	1.00	0.33	0.23	
			Q180626	271.00	272.00	1.00	0.18	0.35	
			Q180627	272.00	273.00	1.00	0.67	0.36	
			Q180628	273.00	274.00	1.00	0.28	0.39	
			Q180629	274.00	275.00	1.00	0.18	0.19	
			Q180630	275.00	276.20	1.20	0.26	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
276.20	279.52	**MD Mafic Dyke** Dark green to brownish-green, fine grained, biotite rich, mafic dyke. Moderate foliation at 30 to 50 dca. Upper contact sharp at 15 dca. Lower contact sharp at 30 dca. From 277.9 to 279 syenite sections alternate with biotite rich sections at low angle to ca.	Q180632	276.20	277.20	1.00	0.3	0.06	
			Q180633	277.20	278.35	1.15	0.11	0.03	
			Q180634	278.35	279.52	1.17	0.29	0.04	
279.52	284.70	**SYEN Syenite** Light grey with pinkish sections, medium to coarse grained, massive syenite. No visible graphite.	Q180636	279.52	280.60	1.08	0.4	0.21	
			Q180637	280.60	281.70	1.10	0.23	0.31	
			Q180638	281.70	282.70	1.00	0.21	0.24	
			Q180639	282.70	283.70	1.00	0.31	0.12	
			Q180640	283.70	284.70	1.00	0.36	0.1	
284.70	286.35	**MD Mafic Dyke** Brown to brownish-green, biotite schist. Mafic dyke at low angle to ca. From 285.5 to 286.35 Contact between the dyke and syenite sub parallel to ca.	Q180641	284.70	285.50	0.80	1.3	0.05	
			Q180642	285.50	286.35	0.85	2.67	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
286.35	301.90	**SYEN Syenite** Medium grey with pinkish hue sections, massive, coarse grained syenite. No visible graphite. Coarse cm size subhedral feldspars from 295 to 296, 297.5 and from 298 to 299.7. Lower contact at 90 dca.	Q180643	286.35	287.30	0.95	2.14	0.48	
			Q180645	287.30	288.20	0.90	0.14	0.44	
			Q180646	288.20	289.10	0.90	1.28	0.5	
			Q180647	289.10	290.00	0.90	1.09	0.13	
			Q180648	290.00	291.00	1.00	0.62	0.14	
			Q180649	291.00	292.00	1.00	1.44	0.37	
			Q180650	292.00	293.00	1.00	0.35	0.37	
			Q180652	293.00	294.00	1.00	0.16	0.26	
			Q180653	294.00	295.00	1.00	0.2	0.16	
			Q180654	295.00	296.00	1.00	0.25	0.13	
			Q180656	296.00	297.00	1.00	0.05	0.23	
			Q180657	297.00	298.00	1.00	0.25	0.32	
			Q180658	298.00	299.00	1.00	0.21	0.18	
			Q180659	299.00	300.00	1.00	0.13	0.12	
			Q180660	300.00	300.95	0.95	1.29	0.15	
			Q180661	300.95	301.90	0.95	1.65	0.38	
301.90	309.00	**GRDR Granodiorite** Greyish-green, salt and pepper texture, coarse, massive granodiorite. Could be a biotite rich section of syenite. No visible graphite.	Q180662	301.90	303.00	1.10	0.1	0.26	
			Q180663	303.00	304.00	1.00	0.05	0.29	
			Q180665	304.00	305.00	1.00	0.05	0.28	
			Q180666	305.00	306.00	1.00	0.09	0.1	
			Q180667	306.00	307.00	1.00	0.07	0.28	
			Q180668	307.00	308.00	1.00	0.04	0.26	
			Q180669	308.00	309.00	1.00	0.08	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
309.00	339.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to brownish grey, medium to coarse grained syenite with large subhedral feldspar sections. Weak graphite overprinting as fracture filling veinlets. 5cm fault gouge at 319.9m at 30dca. Blocky core from 320 to 322.5 and from 336.3 to 337.8. Moderate graphite as veinlets from 324 to 325 and from 333.5 to 335. EOH 339.0m	Q180670	309.00	310.00	1.00	0.11	0.17	
			Q180672	310.00	311.00	1.00	0.05	0.66	
			Q180673	311.00	312.00	1.00	0.04	0.25	
			Q180674	312.00	313.00	1.00	0.25	0.31	
			Q180676	313.00	314.00	1.00	0.19	0.31	
			Q180677	314.00	315.00	1.00	0.19	0.46	
			Q180678	315.00	316.00	1.00	0.3	0.41	
			Q180679	316.00	317.00	1.00	0.16	0.18	
			Q180680	317.00	318.00	1.00	0.85	0.47	
			Q180681	318.00	319.00	1.00	0.83	0.06	
			Q180682	319.00	320.00	1.00	0.85	0.29	
			Q180683	320.00	321.00	1.00	1.11	0.05	
			Q180685	321.00	322.00	1.00	0.6	0.14	
			Q180686	322.00	323.00	1.00	1.35	0.37	
			Q180687	323.00	324.00	1.00	1.48	0.26	
			Q180688	324.00	325.00	1.00	0.73	0.24	
			Q180689	325.00	326.00	1.00	0.53	0.23	
			Q180690	326.00	327.00	1.00	0.51	0.35	
			Q180692	327.00	328.00	1.00	0.78	0.49	
			Q180693	328.00	329.00	1.00	0.38	0.3	
			Q180694	329.00	330.00	1.00	0.4	0.1	
			Q180696	330.00	331.00	1.00	0.37	0.18	
			Q180697	331.00	332.00	1.00	0.52	0.28	
			Q180698	332.00	333.00	1.00	0.16	0.13	
			Q180699	333.00	334.00	1.00	0.55	0.3	
			Q180700	334.00	335.00	1.00	0.7	0.26	
			Q180701	335.00	336.00	1.00	0.25	0.02	
			Q180702	336.00	337.00	1.00	1.09	0.02	
			Q180703	337.00	338.00	1.00	0.24	0.08	
			Q180705	338.00	339.00	1.00	0.26	0.51	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	423.00	09/07/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545721.6	682393.7			Reflex APS		13/07/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.00	109.70		-50.00	Chibougamau Diamond Drilling		14/07/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	363	Casing Pulled	Casing (1)	60.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test West Pipe from the Northwest.	This hole intersected three main graphitic breccia intervals: from 60.00m to 84.60m (24.60m); from 120.70m to 183.50m (62.80m); and, from 225.35 to 275.84m (50.49m). The assays from 60.00m to 303.00m averaged 2.00% Cg over 243.00m; within this intersection a higher grade graphite zone from 61.00m to 161.00m averaged 2.78% Cg over 100.00m.	Elevation was estimated, APS data did not have elevation reading. Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
66.00			114.6	105.6	-50.3	-50.3	☑	Reflex EZ	56910	
69.00			115.4	106.4	-50.3	-50.3	☑	Reflex EZ	56594	
72.00			116.6	107.6	-50.4	-50.4	☑	Reflex EZ	56472	
75.00			116.1	107.1	-50.4	-50.4	☑	Reflex EZ	56472	
78.00			115.3	106.3	-50	-50	☑	Reflex EZ	56409	
81.00			117.8	108.8	-50.5	-50.5	☑	Reflex EZ	56478	
84.00			116.8	107.8	-50.4	-50.4	☑	Reflex EZ	56409	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			117.6	108.6	-50.6	-50.6	☑	Reflex EZ	56419	
90.00			117.4	108.4	-50.6	-50.6	☑	Reflex EZ	56459	
93.00			117	108	-50.6	-50.6	☑	Reflex EZ	56380	
96.00			118.8	109.8	-50.8	-50.8	☑	Reflex EZ	56270	
99.00			117.1	108.1	-50.4	-50.4	☑	Reflex EZ	56346	
105.00			119	110	-50.6	-50.6	☑	Reflex EZ	56366	
108.00			118.4	109.4	-50.6	-50.6	☑	Reflex EZ	56487	
111.00			117.7	108.7	-50.4	-50.4	☑	Reflex EZ	56428	
114.00			116.5	107.5	-50.3	-50.3	☑	Reflex EZ	56408	
117.00			118.3	109.3	-50.6	-50.6	☑	Reflex EZ	56413	
120.00			117.6	108.6	-50.6	-50.6	☑	Reflex EZ	56399	
123.00			116.7	107.7	-50.4	-50.4	☑	Reflex EZ	56439	
126.00			117.3	108.3	-50.4	-50.4	☑	Reflex EZ	56265	
129.00			117.1	108.1	-50.5	-50.5	☑	Reflex EZ	56387	
132.00			116.9	107.9	-50.3	-50.3	☑	Reflex EZ	56351	
135.00			118.2	109.2	-50.6	-50.6	☑	Reflex EZ	56359	
138.00			118	109	-50.6	-50.6	☑	Reflex EZ	56389	
141.00			117.9	108.9	-50.5	-50.5	☑	Reflex EZ	56350	
144.00			118.3	109.3	-50.5	-50.5	☑	Reflex EZ	56402	
147.00			117.5	108.5	-50.4	-50.4	☑	Reflex EZ	56396	
150.00			118.4	109.4	-50.4	-50.4	☑	Reflex EZ	56425	
153.00			118.3	109.3	-50.3	-50.3	☑	Reflex EZ	56428	
156.00			117.4	108.4	-50.4	-50.4	☑	Reflex EZ	56403	
159.00			117.2	108.2	-50.4	-50.4	☑	Reflex EZ	56525	
162.00			117.3	108.3	-50.2	-50.2	☑	Reflex EZ	56392	
165.00			117.3	108.3	-50.2	-50.2	☑	Reflex EZ	56394	
168.00			118.2	109.2	-50.5	-50.5	☑	Reflex EZ	56395	
171.00			118.2	109.2	-50.5	-50.5	☑	Reflex EZ	56431	
174.00			117.2	108.2	-50	-50	☑	Reflex EZ	56330	
177.00			117.3	108.3	-50.3	-50.3	☑	Reflex EZ	56383	
180.00			118	109	-50.4	-50.4	☑	Reflex EZ	56350	
183.00			118.2	109.2	-50.4	-50.4	☑	Reflex EZ	56315	
186.00			117.3	108.3	-50.3	-50.3	☑	Reflex EZ	56367	
189.00			117.2	108.2	-50.1	-50.1	☑	Reflex EZ	56279	
192.00			118	109	-50.1	-50.1	☑	Reflex EZ	56441	
195.00			117.6	108.6	-50.3	-50.3	☑	Reflex EZ	56879	
198.00			118.7	109.7	-50	-50	☑	Reflex EZ	56631	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
201.00			118.8	109.8	-49.8	-49.8	☑	Reflex EZ	56940	
204.00			121.8	112.8	-50.2	-50.2	☑	Reflex EZ	56647	
207.00			121.2	112.2	-50	-50	☑	Reflex EZ	57261	
210.00			121.9	112.9	-50.3	-50.3	☑	Reflex EZ	56802	
213.00			121.6	112.6	-49.9	-49.9	☑	Reflex EZ	56664	
216.00			121.6	112.6	-50.9	-50.9	☑	Reflex EZ	55975	
219.00			118.7	109.7	-50.1	-50.1	☑	Reflex EZ	56198	
222.00			118.6	109.6	-50	-50	☑	Reflex EZ	56274	
225.00			118.4	109.4	-50.3	-50.3	☑	Reflex EZ	56369	
228.00			117.2	108.2	-50	-50	☑	Reflex EZ	56274	
231.00			118.3	109.3	-50.2	-50.2	☑	Reflex EZ	56356	
234.00			118.4	109.4	-50.2	-50.2	☑	Reflex EZ	56316	
237.00			117.1	108.1	-49.9	-49.9	☑	Reflex EZ	56369	
240.00			117.3	108.3	-49.9	-49.9	☑	Reflex EZ	56329	
243.00			118.7	109.7	-50.1	-50.1	☑	Reflex EZ	56424	
246.00			118.7	109.7	-50.1	-50.1	☑	Reflex EZ	56394	
249.00			119.1	110.1	-50.2	-50.2	☑	Reflex EZ	56398	
252.00			117.5	108.5	-50	-50	☑	Reflex EZ	56464	
255.00			118.4	109.4	-50.4	-50.4	☑	Reflex EZ	56472	
258.00			117.6	108.6	-49.8	-49.8	☑	Reflex EZ	56354	
261.00			117.7	108.7	-50	-50	☑	Reflex EZ	56498	
264.00			118	109	-50.1	-50.1	☑	Reflex EZ	56442	
267.00			119	110	-50.2	-50.2	☑	Reflex EZ	56476	
270.00			117.4	108.4	-49.9	-49.9	☑	Reflex EZ	56474	
273.00			117.4	108.4	-49.8	-49.8	☑	Reflex EZ	56453	
276.00			117.8	108.8	-49.9	-49.9	☑	Reflex EZ	56407	
279.00			118.6	109.6	-49.7	-49.7	☑	Reflex EZ	56561	
282.00			119	110	-50.1	-50.1	☑	Reflex EZ	56444	
285.00			117.3	108.3	-49.7	-49.7	☑	Reflex EZ	56427	
288.00			118	109	-49.7	-49.7	☑	Reflex EZ	56490	
291.00			117.1	108.1	-49.6	-49.6	☑	Reflex EZ	56549	
294.00			118.7	109.7	-49.7	-49.7	☑	Reflex EZ	56485	
297.00			119	110	-49.8	-49.8	☑	Reflex EZ	56566	
300.00			118.2	109.2	-49.5	-49.5	☑	Reflex EZ	56524	
303.00			119.4	110.4	-49.7	-49.7	☑	Reflex EZ	58003	
306.00			118.7	109.7	-49.8	-49.8	☑	Reflex EZ	56457	
309.00			117.8	108.8	-49.7	-49.7	☑	Reflex EZ	56551	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
312.00			117.7	108.7	-49.4	-49.4	☑	Reflex EZ	56485	
315.00			117.5	108.5	-49.4	-49.4	☑	Reflex EZ	56532	
318.00			119.1	110.1	-49.7	-49.7	☑	Reflex EZ	56569	
321.00			118.8	109.8	-49.5	-49.5	☑	Reflex EZ	56589	
324.00			119.2	110.2	-49.6	-49.6	☑	Reflex EZ	56572	
327.00			119.3	110.3	-49.7	-49.7	☑	Reflex EZ	56581	
330.00			117.6	108.6	-49.4	-49.4	☑	Reflex EZ	56563	
333.00			118.3	109.3	-49.5	-49.5	☑	Reflex EZ	56621	
336.00			118.1	109.1	-49.5	-49.5	☑	Reflex EZ	56577	
339.00			119.4	110.4	-49.3	-49.3	☑	Reflex EZ	56503	
342.00			119.4	110.4	-49.2	-49.2	☑	Reflex EZ	56368	
345.00			118.1	109.1	-49.1	-49.1	☑	Reflex EZ	56498	
348.00			119.6	110.6	-49.3	-49.3	☑	Reflex EZ	56796	
351.00			119.5	110.5	-49.3	-49.3	☑	Reflex EZ	56610	
354.00			118.2	109.2	-49	-49	☑	Reflex EZ	56759	
357.00			118.5	109.5	-49.2	-49.2	☑	Reflex EZ	56509	
360.00			119.7	110.7	-49.3	-49.3	☑	Reflex EZ	56348	
363.00			118	109	-49.1	-49.1	☑	Reflex EZ	56332	
366.00			120.5	111.5	-49.2	-49.2	☑	Reflex EZ	56252	
369.00			117.8	108.8	-48.9	-48.9	☑	Reflex EZ	56277	
372.00			118.5	109.5	-48.9	-48.9	☑	Reflex EZ	56399	
375.00			119.9	110.9	-49.2	-49.2	☑	Reflex EZ	56447	
378.00			117.6	108.6	-48.7	-48.7	☑	Reflex EZ	56390	
381.00			119.5	110.5	-49	-49	☑	Reflex EZ	56358	
384.00			119.9	110.9	-49.1	-49.1	☑	Reflex EZ	56353	
387.00			117.9	108.9	-48.8	-48.8	☑	Reflex EZ	56207	
390.00			119.3	110.3	-49	-49	☑	Reflex EZ	56065	
393.00			119.5	110.5	-48.9	-48.9	☑	Reflex EZ	56277	
396.00			118.4	109.4	-48.8	-48.8	☑	Reflex EZ	56502	
399.00			119	110	-49	-49	☑	Reflex EZ	56377	
402.00			118.5	109.5	-48.9	-48.9	☑	Reflex EZ	56431	
405.00			119.4	110.4	-48.7	-48.7	☑	Reflex EZ	56433	
408.00			118.2	109.2	-48.8	-48.8	☑	Reflex EZ	56447	
411.00			120.5	111.5	-49.2	-49.2	☑	Reflex EZ	56388	
414.00			118.9	109.9	-49	-49	☑	Reflex EZ	56425	
417.00			118.2	109.2	-48.8	-48.8	☑	Reflex EZ	56370	
420.00			117.9	108.9	-48.7	-48.7	☑	Reflex EZ	56596	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
423.00			118.5	109.5	-48.7	-48.7	☑	Reflex EZ	56136	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	55.50	**OB Overburden** From 0.0 to 54m unknown overburden likely muskeg, sand, boulders, mud. From 54 to 55.5 Grounded core plus pebbles, and boulder size sections of limestone, granite and other rock types.							
55.50	60.00	**SED Sediment** Beige coloured, locally vuggy limestone; silty dark brown and vuggy from 58.2 to 59.2. From 59.3 to 60m dark grey to green clay likely weathered syenite.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
60.00	84.60	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite with graphite in the matrix and as fracture filling veinlets. From 60 to 66m strong paleo-weathering clay, mostly clay, friable core. Minor carbonate and fracture filling pinkish-white feldspar veinlets from 67 to 78.5m. Overall moderate to good graphite content.	Q180706	60.00	61.00	1.00	0.07	0.13	
			Q180707	61.00	62.00	1.00	2.67	0.02	
			Q180708	62.00	63.00	1.00	3.56	0.02	
			Q180709	63.00	64.00	1.00	2.5	0.02	
			Q180710	64.00	65.00	1.00	1.04	0.03	
			Q180712	65.00	66.00	1.00	2.2	0.05	
			Q180713	66.00	67.00	1.00	4.57	0.05	
			Q180714	67.00	68.00	1.00	2.42	0.02	
			Q180716	68.00	69.00	1.00	2.7	0.02	
			Q180717	69.00	70.00	1.00	10.2	0.2	2.37
			Q180718	70.00	71.00	1.00	4.96	0.01	2.55
			Q180719	71.00	72.00	1.00	1.45	0.01	2.6
			Q180720	72.00	73.00	1.00	2.84	0.01	2.57
			Q180721	73.00	74.00	1.00	3.54	0.01	2.53
			Q180722	74.00	75.00	1.00	3.19	0.005	
			Q180723	75.00	76.00	1.00	5.36	0.02	
			Q180725	76.00	77.00	1.00	3.13	0.02	
			Q180726	77.00	78.00	1.00	2.29	0.01	
			Q180727	78.00	79.00	1.00	2.84	0.01	
			Q180728	79.00	80.00	1.00	0.56	0.01	
			Q180729	80.00	81.00	1.00	2.26	0.02	
			Q180730	81.00	82.00	1.00	1.32	0.03	
			Q180732	82.00	83.00	1.00	2.35	0.04	
			Q180733	83.00	83.80	0.80	1.81	0.02	
			Q180734	83.80	84.60	0.80	6.23	0.01	
84.60	85.80	**ID Intermediate Dyke** Dark grey, very fine grained intermediate dyke with white to light pink subhedral feldspar phenocrysts 0.1 to 2cm in size. No visible graphite. Both contacts sharp at 40 dca.	Q180736	84.60	85.80	1.20	0.37	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.80	95.40	**SYENOP Syenite with Graphitic Overprinting** Dark grey to reddish-grey, medium grained, syenite with moderate graphite overprinting as fracture filling veinlets and up to 40 % graphite breccia with good graphite in the matrix from 86 to 86.7; 87.8 to 88.1; 90.7 to 91 and 92 to 94.5. Fault gouge, broken core, limonitic clay at 94.8-94.9.	Q180737	85.80	87.00	1.20	3.3	0.02	
			Q180738	87.00	88.00	1.00	0.77	0.05	
			Q180739	88.00	89.00	1.00	0.62	0.02	
			Q180740	89.00	90.00	1.00	1.48	0.09	
			Q180741	90.00	91.00	1.00	1.21	0.09	
			Q180742	91.00	92.00	1.00	0.55	0.04	
			Q180743	92.00	93.00	1.00	2.4	0.09	
			Q180745	93.00	93.90	0.90	3.9	0.06	
			Q180746	93.90	94.65	0.75	5.11	0.06	
			Q180747	94.65	95.40	0.75	0.34	0.22	
95.40	96.75	**ID Intermediate Dyke** Dark grey, very fine grained intermediate dyke with white to light pink subhedral feldspar phenocrysts 0.1 to 2cm in size. No visible graphite. Upper contact sharp at 30 dca; lower contact at 50 dca.	Q180748	95.40	96.75	1.35	0.04	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
96.75	120.70	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained, massive syenite, moderate graphite overprinting as fracture filling veinlets and minor brecciated sections 103.6-103.9. Moderately fractured/ blocky core form 109 to 112.3m. From 166 to 119.8 coarse subhedral, milky white up to 4cm feldspars crystals.	Q180749	96.75	98.00	1.25	0.48	0.15	
			Q180750	98.00	99.00	1.00	0.35	0.06	
			Q180752	99.00	100.00	1.00	0.96	0.05	
			Q180753	100.00	101.00	1.00	1.17	0.08	
			Q180754	101.00	102.00	1.00	1.72	0.1	
			Q180756	102.00	103.00	1.00	0.37	0.14	
			Q180757	103.00	104.00	1.00	1.15	0.07	
			Q180758	104.00	105.00	1.00	2.38	0.02	
			Q180759	105.00	106.00	1.00	3.86	0.04	
			Q180760	106.00	107.00	1.00	2.35	0.08	
			Q180761	107.00	108.00	1.00	2.67	0.07	
			Q180762	108.00	109.00	1.00	1.34	0.1	
			Q180763	109.00	110.00	1.00	2.32	0.07	
			Q180765	110.00	111.00	1.00	1.09	0.16	
			Q180766	111.00	112.00	1.00	2.16	0.11	
			Q180767	112.00	113.00	1.00	5.1	0.29	
			Q180768	113.00	114.00	1.00	0.52	0.11	
			Q180769	114.00	115.00	1.00	0.34	0.1	
			Q180770	115.00	116.00	1.00	0.18	0.1	
			Q180772	116.00	117.00	1.00	0.14	0.1	
			Q180773	117.00	118.00	1.00	0.82	0.03	
			Q180774	118.00	119.00	1.00	0.47	0.16	
			Q180776	119.00	119.90	0.90	0.92	0.1	
			Q180777	119.90	120.70	0.80	1.15	0.4	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
120.70	139.17	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite. Good graphite content in the matrix and as fracture filling veinlets. Angular to sub angular syenite fragments vary in size from <1mm to several cm. Few mafic fragments from 124 to 126m. Lower contact sharp at 35 dca.	Q180778	120.70	121.80	1.10	6.05	0.25	
			Q180779	121.80	122.90	1.10	4.57	0.35	
			Q180780	122.90	124.00	1.10	3.98	0.29	
			Q180781	124.00	125.00	1.00	1.37	0.07	
			Q180782	125.00	126.00	1.00	4.94	0.26	
			Q180783	126.00	127.00	1.00	3.08	0.44	
			Q180785	127.00	128.00	1.00	3.6	0.2	
			Q180786	128.00	129.00	1.00	0.9	0.09	
			Q180787	129.00	130.00	1.00	2.7	0.09	
			Q180788	130.00	131.00	1.00	2.72	0.3	
			Q180789	131.00	132.00	1.00	3.09	0.31	
			Q180790	132.00	133.00	1.00	6.65	0.53	
			Q180792	133.00	134.00	1.00	2.92	0.33	
			Q180793	134.00	135.00	1.00	0.98	0.19	
			Q180794	135.00	136.00	1.00	2.53	0.28	
			Q180796	136.00	137.00	1.00	0.45	0.13	
			Q180797	137.00	138.00	1.00	6.88	0.31	
			Q180798	138.00	139.17	1.17	4.78	0.54	
139.17	142.96	**SYEN Syenite** Medium grey to reddish-brown, massive, medium to coarse grained syenite. Weak graphite content as a 5cm graphite breccia at 142m. Greenish-grey, massive fine grained mafic dyke from 139.4 to 139.85. Upper contact sharp at 20 dca; lower contact sharp at 50 dca. Lower contact of this unit sharp at 75 dca.	Q180799	139.17	140.10	0.93	1.42	0.14	
			Q180800	140.10	141.00	0.90	1.07	0.17	
			Q180801	141.00	141.95	0.95	0.56	0.16	
			Q180802	141.95	142.96	1.01	0.45	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
142.96	163.80	**GRPBX Graphitic Breccia** Dark grey, medium grained, brecciated syenite. Good graphite content in the matrix and as fracture filling graphite veinlets. 1cm carbonate vein at 154.2m.	Q180803	142.96	144.00	1.04	6.78	0.38	
			Q180805	144.00	145.00	1.00	3.67	0.43	2.62
			Q180806	145.00	146.00	1.00	2.2	0.2	2.63
			Q180807	146.00	147.00	1.00	4.67	0.4	2.65
			Q180808	147.00	148.00	1.00	1.22	0.47	2.69
			Q180809	148.00	149.00	1.00	4.13	0.35	2.71
			Q180810	149.00	150.00	1.00	6.19	0.34	
			Q180812	150.00	151.00	1.00	6.31	0.41	
			Q180813	151.00	152.00	1.00	6.17	0.49	
			Q180814	152.00	153.00	1.00	6.84	0.65	
			Q180816	153.00	154.00	1.00	5.96	0.44	
			Q180817	154.00	155.00	1.00	4.56	0.44	
			Q180818	155.00	156.00	1.00	3.9	0.37	
			Q180819	156.00	157.00	1.00	3.28	0.47	
			Q180820	157.00	158.00	1.00	1.39	0.46	
			Q180821	158.00	159.00	1.00	4.16	0.28	
			Q180822	159.00	160.00	1.00	5.03	0.48	
			Q180823	160.00	161.00	1.00	6.6	0.39	
			Q180825	161.00	162.00	1.00	2.68	0.45	
			Q180826	162.00	162.90	0.90	0.27	0.45	
			Q180827	162.90	163.80	0.90	2.17	0.31	
163.80	165.20	**FLT Fault Zone** Strong fracturing, angular fragments 5-10cm, graphite on the faces of some of the fragments. The fault zone occurs within graphitic breccia.	Q180828	163.80	164.60	0.80	3.02	0.35	
			Q180829	164.60	165.20	0.60	2.16	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
165.20 -	167.17	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite. Moderate to good graphite in the matrix. Moderately fractured core. Lower contact sharp at 80 dca.	Q180830	165.20	166.10	0.90	3.89	0.24	
			Q180832	166.10	167.17	1.07	2.74	0.2	
167.17 -	169.48	**SYEN Syenite** Medium grey to reddish-grey, massive, medium grained syenite. No visible graphite. Lower contact sharp at 45 dca.	Q180833	167.17	168.30	1.13	0.09	0.12	
			Q180834	168.30	169.48	1.18	0.37	0.21	
169.48 -	170.37	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite. Weak to moderate graphite as fracture filling veinlets.	Q180836	169.48	170.37	0.89	3.52	0.28	
170.37 -	171.45	**ID Intermediate Dyke** Light to medium grey, massive fine grained intermediate dyke. Weak foliation parallel to core axis. Upper contact at 75 dca; lower contact at 20dca. No visible graphite.	Q180837	170.37	171.45	1.08	0.31	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
171.45	183.50	**GRPBX Graphitic Breccia** Medium to dark grey, graphite breccia. Good graphite content in the matrix. Light grey intermediate dyke from 175.3 to 176.9. Broken up by thin 5-10cm breccia sections.	Q180838	171.45	172.30	0.85	1.99	0.28	
			Q180839	172.30	173.30	1.00	3.5	0.41	
			Q180840	173.30	174.10	0.80	2.48	0.41	
			Q180841	174.10	175.00	0.90	2.35	0.32	
			Q180842	175.00	176.00	1.00	1.13	0.29	
			Q180843	176.00	177.00	1.00	1.17	0.27	
			Q180845	177.00	178.00	1.00	3.3	0.54	
			Q180846	178.00	179.00	1.00	3.07	0.51	
			Q180847	179.00	180.00	1.00	2.38	0.39	
			Q180848	180.00	180.90	0.90	4.8	0.37	
			Q180849	180.90	181.80	0.90	2.14	0.4	
			Q180850	181.80	182.70	0.90	2.55	0.58	
			Q180852	182.70	183.50	0.80	1.66	0.27	
183.50	186.85	**FD Felsic Dyke** Very dark grey, fine grained with fine banding near the upper contact and at 185m. Upper contact at 35 dca. Lower contact at 80 dca. 1-2mm feldspar phenocrysts. Fine grained feldspar porphyry? Subrounded 4cm syenite fragment at 186.3m. No visible graphite and weakly conductive.	Q180853	183.50	184.50	1.00	4.86	0.42	
			Q180854	184.50	185.70	1.20	4.33	0.38	
			Q180856	185.70	186.85	1.15	3.25	0.32	
186.85	193.15	**SYEN Syenite** Light grey, massive, coarse grained syenite. Weak gneissic banding. No visible graphite.	Q180857	186.85	188.00	1.15	0.15	0.32	
			Q180858	188.00	189.00	1.00	0.08	0.2	
			Q180859	189.00	190.00	1.00	0.06	0.2	
			Q180860	190.00	191.00	1.00	0.07	0.12	
			Q180861	191.00	192.00	1.00	0.05	0.09	
			Q180862	192.00	193.15	1.15	0.04	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
193.15 -	213.26	**FD Felsic Dyke** Dark grey, massive, fine grained feldspar porphyry. 1-5mm subhedral feldspar phenocrysts partially replaced by amphibole and carbonates in a fine grained dark grey matrix. No visible graphite. Upper contact sharp at 45 dca; lower contact sharp at 65 dca.	Q180863	193.15	194.10	0.95	0.04	0.25	
			Q180865	194.10	195.00	0.90	0.03	0.07	
			Q180866	195.00	196.00	1.00	0.02	0.07	
			Q180867	196.00	197.00	1.00	0.06	0.07	
			Q180868	197.00	198.00	1.00	0.07	0.09	
			Q180869	198.00	199.00	1.00	0.09	0.1	
			Q180870	199.00	200.00	1.00	0.08	0.08	
			Q180872	200.00	201.00	1.00	0.02	0.06	
			Q180873	201.00	202.00	1.00	0.08	0.07	
			Q180874	202.00	203.00	1.00	0.06	0.08	
			Q180876	203.00	204.00	1.00	0.07	0.09	
			Q180877	204.00	205.00	1.00	0.11	0.07	
			Q180878	205.00	206.00	1.00	0.07	0.06	
			Q180879	206.00	207.00	1.00	0.11	0.08	
			Q180880	207.00	208.00	1.00	0.14	0.1	
			Q180881	208.00	209.00	1.00	0.09	0.09	
			Q180882	209.00	210.00	1.00	0.11	0.08	
			Q180883	210.00	211.00	1.00	0.12	0.08	
			Q180885	211.00	212.10	1.10	0.08	0.06	
			Q180886	212.10	213.26	1.16	0.02	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
213.26	221.60	**SYEN Syenite** Light to medium grey, massive, coarse grained, syenite. No visible graphite. Brecciated near the lower contact with syenite fragments mixed with porphyry fragments from 220.9 to 221.6.	Q180887	213.26	214.20	0.94	0.11	0.11	
			Q180888	214.20	215.10	0.90	0.05	0.07	
			Q180889	215.10	216.00	0.90	0.07	0.11	
			Q180890	216.00	217.00	1.00	0.1	0.18	
			Q180892	217.00	218.00	1.00	0.04	0.15	
			Q180893	218.00	219.00	1.00	0.07	0.21	
			Q180894	219.00	219.90	0.90	0.07	0.33	
			Q180896	219.90	220.75	0.85	0.06	0.17	
			Q180897	220.75	221.60	0.85	0.82	0.2	
221.60	225.35	**FD Felsic Dyke** Dark grey, fine grained massive feldspar porphyritic dyke. 1-5mm subhedral feldspar phenocrysts in a fine grained, dark grey matrix. Brecciated near the upper contact for 20 cm. Lower contact sharp at 35 dca. No visible graphite. Not conductive.	Q180898	221.60	222.50	0.90	3.24	0.55	
			Q180899	222.50	223.50	1.00	4.75	0.32	
			Q180900	223.50	224.40	0.90	1.99	0.37	
			Q180901	224.40	225.35	0.95	3.45	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
225.35	275.84	**GRPBX Graphitic Breccia** Dark grey, graphite breccia with angular polymigtic fragments in dark grey to black fine grained graphite flooded matrix. Overall moderately conductive with locally very good conductivity as a result of massive graphite fragments. Fragments vary in size from <1cm to 25cm. Few 1-cm calcite veinlets at 230.8 and 250.4. Fragments are syenite, granite, felsic, mafic and intermediate dykes and locally massive graphite e.g. at 255.2. From 260 to 260.7, intermediate dyke, fine grained massive, medium grey. Both contacts sharp at 50 dca. No visible graphite in the dyke.	Q180902	225.35	226.20	0.85	1.86	0.2	
			Q180903	226.20	227.10	0.90	1.53	0.23	
			Q180905	227.10	228.00	0.90	1.54	0.16	
			Q180906	228.00	229.00	1.00	1.69	0.55	
			Q180907	229.00	230.00	1.00	5.47	0.36	
			Q180908	230.00	231.00	1.00	2.2	0.29	
			Q180909	231.00	232.00	1.00	1.3	0.2	
			Q180910	232.00	233.00	1.00	2.09	0.8	
			Q180912	233.00	234.00	1.00	2.34	0.39	
			Q180913	234.00	235.00	1.00	1.32	0.24	
			Q180914	235.00	236.00	1.00	1.42	0.29	
			Q180916	236.00	237.00	1.00	0.87	0.21	
			Q180917	237.00	238.00	1.00	4.45	0.33	
			Q180918	238.00	239.00	1.00	3.15	0.28	
			Q180919	239.00	240.00	1.00	2.17	0.35	2.62
			Q180920	240.00	241.00	1.00	0.66	0.18	2.64
			Q180921	241.00	242.00	1.00	1.59	0.25	2.64
			Q180922	242.00	243.00	1.00	2.65	0.25	2.63
			Q180923	243.00	244.00	1.00	2.29	0.46	2.66
			Q180925	244.00	245.00	1.00	2.73	0.27	
			Q180926	245.00	246.00	1.00	2.56	0.5	
			Q180927	246.00	247.00	1.00	2.34	0.29	
			Q180928	247.00	248.00	1.00	2.09	0.38	
			Q180929	248.00	249.00	1.00	2.88	0.42	
			Q180930	249.00	250.00	1.00	2.31	0.33	
			Q180932	250.00	251.00	1.00	3.37	0.23	
			Q180933	251.00	252.00	1.00	2.21	0.33	
			Q180934	252.00	253.00	1.00	2.71	0.42	
			Q180936	253.00	254.00	1.00	2.09	0.23	
			Q180937	254.00	255.00	1.00	1.58	0.33	
			Q180938	255.00	256.00	1.00	3.48	0.41	
			Q180939	256.00	257.00	1.00	1.72	0.36	
			Q180940	257.00	258.00	1.00	1.2	0.21	
			Q180941	258.00	259.00	1.00	0.22	0.08	
			Q180942	259.00	260.00	1.00	2.15	0.18	
			Q180943	260.00	260.70	0.70	0.05	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q180945	260.70	261.80	1.10	1.01	0.09	
			Q180946	261.80	262.90	1.10	2.68	0.23	
			Q180947	262.90	264.00	1.10	6.83	0.69	
			Q180948	264.00	265.00	1.00	3.11	0.17	
			Q180949	265.00	266.00	1.00	1.31	0.13	
			Q180950	266.00	267.00	1.00	3.46	0.4	
			Q180952	267.00	268.00	1.00	3.26	0.32	
			Q180953	268.00	269.00	1.00	3.11	0.25	
			Q180954	269.00	270.00	1.00	3.5	0.19	
			Q180956	270.00	271.00	1.00	3.94	0.38	
			Q180957	271.00	272.00	1.00	1.32	0.47	
			Q180958	272.00	273.00	1.00	2.07	0.3	
			Q180959	273.00	274.00	1.00	0.6	0.19	
			Q180960	274.00	275.00	1.00	0.52	0.23	
			Q180961	275.00	275.84	0.84	0.47	0.2	
275.84	278.50	**ID Intermediate Dyke** Medium gray, fine grained feldspar porphyry. Pink subhedral 1-8mm feldspar phenocrysts plus dark green, amphibole? 1-3mm in medium gray, fine grained matrix. No visible graphite.	Q180962	275.84	276.90	1.06	0.01	0.1	
			Q180963	276.90	277.70	0.80	0.03	0.09	
			Q180965	277.70	278.50	0.80	0.01	0.27	
278.50	280.50	**FLT Fault Zone** Fractured, broken core, grounded sections, 45cm lost core from 280.05 to 280.5m. Core is mainly feldspar porphyry.	Q180966	278.50	279.30	0.80	0.5	0.2	
			Q180967	279.30	280.50	1.20	0.96	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
280.50	294.00	**SYEN Syenite** Medium grey to reddish-grey, fine to medium grained, massive syenite. No visible graphite. From 284 to 287.2 three mafic dykes 5-10cm each, dark green biotite rich.	Q180968	280.50	281.30	0.80	0.3	0.26	
			Q180969	281.30	282.20	0.90	0.51	0.29	
			Q180970	282.20	283.10	0.90	0.45	0.28	
			Q180972	283.10	284.00	0.90	0.4	0.28	
			Q180973	284.00	285.00	1.00	0.46	0.27	
			Q180974	285.00	286.00	1.00	0.21	0.11	
			Q180976	286.00	287.00	1.00	0.48	0.23	
			Q180977	287.00	288.00	1.00	0.12	0.18	
			Q180978	288.00	289.00	1.00	0.59	0.18	
			Q180979	289.00	290.00	1.00	0.18	0.16	
			Q180980	290.00	291.00	1.00	0.13	0.11	
			Q180981	291.00	292.00	1.00	0.35	0.22	
			Q180982	292.00	293.00	1.00	0.12	0.18	
			Q180983	293.00	294.00	1.00	0.03	0.13	
294.00	299.85	**ID Intermediate Dyke** Medium grey with a greenish-hue, fine grained, massive intermediate dyke. 1-2mm feldspars. Upper contact sharp at 70 dca. Lower contact sharp at 40 dca. Weakly conductive and dark grey near the lower contact.	Q180985	294.00	295.00	1.00	1.46	0.21	
			Q180986	295.00	296.00	1.00	0.15	0.11	
			Q180987	296.00	297.00	1.00	0.04	0.05	
			Q180988	297.00	298.00	1.00	0.47	0.15	
			Q180989	298.00	298.90	0.90	2.48	0.27	
			Q180990	298.90	299.85	0.95	2.67	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
299.85	307.10	**SYEN Syenite** Light to medium grey, massive coarse syenite. No visible graphite. From 301.6 to 302 dark green, massive mafic dyke at 40 dca.	Q180992	299.85	300.90	1.05	1.16	1.38	
			Q180993	300.90	302.00	1.10	0.27	0.2	
			Q180994	302.00	303.00	1.00	0.32	0.21	
			Q180996	303.00	304.00	1.00	0.11	0.24	
			Q180997	304.00	305.00	1.00	0.16	0.23	
			Q180998	305.00	306.00	1.00	0.18	0.31	
			Q180999	306.00	307.10	1.10	0.09	0.25	
307.10	308.50	**FLT Fault Zone** Fault Zone. Strongly fractured syenite from 307.1 to 308 and fault gouge, angular syenite fragments 3-5cm from 308 to 308.5.	Q181000	307.10	307.80	0.70	0.2	0.28	
			Q181001	307.80	308.50	0.70	0.17	0.21	
308.50	313.25	**SYEN Syenite** Light to medium grey, massive coarse syenite. No visible graphite. Two 20cm mafic dykes at 310m and 311.15m with minor carbonate veinlets. Both dykes at 45 dca.	Q181002	308.50	309.30	0.80	0.11	0.25	
			Q181003	309.30	310.20	0.90	0.11	0.25	
			Q181005	310.20	311.10	0.90	0.14	0.14	
			Q181006	311.10	312.20	1.10	0.14	0.25	
			Q181007	312.20	313.25	1.05	0.15	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
313.25	320.10	**ID Intermediate Dyke** Medium grey with a light greenish hue, fine grained, massive, mafic to intermediate dyke. Upper contact at 70 dca. Lower contact at 55 dca. Fracture filling carbonate veinlets at 316m at low angle to ca. 10cm pink felsic dyke at 318. No visible graphite.	Q181008	313.25	314.20	0.95	0.18	0.11	
			Q181009	314.20	315.20	1.00	0.21	0.12	
			Q181010	315.20	316.20	1.00	0.12	0.11	
			Q181012	316.20	317.20	1.00	0.15	0.17	
			Q181013	317.20	318.20	1.00	0.11	0.15	
			Q181014	318.20	319.20	1.00	0.23	0.14	
			Q181016	319.20	320.10	0.90	0.16	0.2	
320.10	326.70	**SYEN Syenite** Medium grey to reddish-grey, massive coarse syenite. No visible graphite.	Q181017	320.10	321.00	0.90	0.2	0.32	
			Q181018	321.00	322.00	1.00	0.15	0.38	
			Q181019	322.00	323.00	1.00	0.05	0.19	
			Q181020	323.00	324.00	1.00	0.08	0.37	
			Q181021	324.00	325.00	1.00	0.07	0.33	
			Q181022	325.00	325.80	0.80	0.07	0.27	
			Q181023	325.80	326.70	0.90	0.09	0.18	
326.70	327.30	**FLT Fault Zone** Broken core, fault gouge. Angular core fragments from 1-5cm.	Q181025	326.70	327.30	0.60	0.1	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
327.30	339.35	**SYEN Syenite** Massive coarse syenite. Looks more like granodiorite. Coarse subhedral milky white feldspars from 335 to 336 becomes finer grained and with a pinkish hue from 338 to the lower contact, could be a dyke of the same composition. Lower contact sharp slightly irregular at 20 dca. No visible graphite.	Q181026	327.30	328.20	0.90	0.16	0.18	
			Q181027	328.20	329.10	0.90	0.07	0.34	
			Q181028	329.10	330.00	0.90	0.09	0.35	
			Q181029	330.00	331.00	1.00	0.15	0.28	
			Q181030	331.00	332.00	1.00	0.08	0.18	
			Q181032	332.00	333.00	1.00	0.04	0.26	
			Q181033	333.00	334.00	1.00	0.05	0.28	
			Q181034	334.00	335.00	1.00	0.09	0.24	
			Q181036	335.00	336.00	1.00	0.09	0.14	
			Q181037	336.00	337.10	1.10	0.07	0.26	
			Q181038	337.10	338.20	1.10	0.07	0.23	
			Q181039	338.20	339.35	1.15	0.07	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
339.35	356.30	**ID Intermediate Dyke** Medium grey with a greenish hue, massive gabbro. Looks like what we've called diabase or olivine diabase at East Pipe. From 343.7 to the lower contact mixed with feldspar porphyry. Looks like the darker grey feldspar porphyry has been intruded and as a result brecciated by the gabbro. 15-20cm angular fragments of FP within the gabbro from 345.5 to 352 and from 354.3 to 356.3. Weakly conductive from 354.3 to 356.3.	Q181040	339.35	340.30	0.95	0.03	0.04	
			Q181041	340.30	341.20	0.90	0.03	0.005	
			Q181042	341.20	342.10	0.90	0.03	0.005	
			Q181043	342.10	343.00	0.90	0.05	0.005	
			Q181045	343.00	344.00	1.00	0.11	0.07	
			Q181046	344.00	345.00	1.00	0.08	0.01	
			Q181047	345.00	346.00	1.00	0.03	0.01	
			Q181048	346.00	347.00	1.00	0.01	0.01	
			Q181049	347.00	348.00	1.00	0.04	0.01	
			Q181050	348.00	349.00	1.00	0.06	0.02	
			Q181052	349.00	350.00	1.00	0.03	0.01	
			Q181053	350.00	351.00	1.00	0.01	0.01	
			Q181054	351.00	352.00	1.00	0.01	0.01	
			Q181056	352.00	353.00	1.00	0.01	0.005	
			Q181057	353.00	354.00	1.00	0.01	0.005	
			Q181058	354.00	355.10	1.10	0.03	0.01	
			Q181059	355.10	356.26	1.16	0.03	0.03	
			Q181060	356.26	357.20	0.94	0.02	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
356.30	423.00	**SYENSL Syenite Sill (unmineralized)** Medium grey with a greenish hue when wet, fine to medium grained, massive intrusive. Hard. Fairly uniform, subhedral feldspars 1-3mm. It becomes slightly coarser grained downhole. Salt and pepper texture from 391 to end of hole. Similar to the unmineralized intrusive unit intersected at the East Pipe. EOH 423.0m	Q181061	357.20	358.10	0.90	0.02	0.005	
			Q181062	358.10	359.00	0.90	0.01	0.03	
			Q181063	359.00	360.00	1.00	0.01	0.005	
			Q181065	360.00	361.00	1.00	0.02	0.03	
			Q181066	361.00	362.00	1.00	0.02	0.01	
			Q181067	362.00	363.00	1.00	0.12	0.005	
			Q181068	363.00	364.00	1.00	0.05	0.01	
			Q181069	364.00	365.00	1.00	0.01	0.11	
			Q181070	365.00	366.00	1.00	0.01	0.06	
			Q181072	366.00	367.00	1.00	0.01	0.05	
			Q181073	367.00	368.00	1.00	0.01	0.01	
			Q181074	368.00	369.00	1.00	0.01	0.01	
			Q181076	369.00	370.00	1.00	0.01	0.01	
			Q181077	370.00	371.00	1.00	0.01	0.02	
			Q181078	371.00	372.00	1.00	0.01	0.04	
			Q181079	372.00	373.00	1.00	0.07	0.03	
			Q181080	373.00	374.00	1.00	0.01	0.09	
			Q181081	374.00	375.00	1.00	0.01	0.05	
			Q181082	375.00	376.00	1.00	0.01	0.03	
			Q181083	376.00	377.00	1.00	0.01	0.03	
			Q181085	377.00	378.00	1.00	0.02	0.05	
			Q181086	378.00	379.00	1.00	0.03	0.01	
			Q181087	379.00	380.00	1.00	0.01	0.02	
			Q181088	380.00	381.00	1.00	0.01	0.01	
			Q181089	381.00	382.00	1.00	0.01	0.02	
			Q181090	382.00	383.00	1.00	0.03	0.03	
			Q181092	383.00	384.00	1.00	0.01	0.01	
			Q181093	384.00	385.00	1.00	0.04	0.04	
			Q181094	385.00	386.00	1.00	0.02	0.01	
			Q181096	386.00	387.00	1.00	0.05	0.02	
			Q181097	387.00	388.00	1.00	0.05	0.01	
			Q181098	388.00	389.00	1.00	0.02	0.02	
			Q181099	389.00	390.00	1.00	0.04	0.03	
			Q181100	390.00	391.00	1.00	0.05	0.02	
			Q181101	391.00	392.00	1.00	0.01	0.03	
			Q181102	392.00	393.00	1.00	0.01	0.03	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q181103	393.00	394.00	1.00	0.03	0.07	
		Q181105	394.00	395.00	1.00	0.03	0.03	
		Q181106	395.00	396.00	1.00	0.03	0.04	
		Q181107	396.00	397.00	1.00	0.02	0.03	
		Q181108	397.00	398.00	1.00	0.03	0.06	
		Q181109	398.00	399.00	1.00	0.03	0.04	
		Q181110	399.00	400.00	1.00	0.03	0.04	
		Q181112	400.00	401.00	1.00	0.05	0.03	
		Q181113	401.00	402.00	1.00	0.05	0.03	
		Q181114	402.00	403.00	1.00	0.03	0.03	
		Q181116	403.00	404.00	1.00	0.04	0.04	
		Q181117	404.00	405.00	1.00	0.04	0.03	
		Q181118	405.00	406.00	1.00	0.03	0.02	
		Q181119	406.00	407.00	1.00	0.03	0.03	
		Q181120	407.00	408.00	1.00	0.03	0.03	
		Q181121	408.00	409.00	1.00	0.03	0.03	
		Q181122	409.00	410.00	1.00	0.05	0.06	
		Q181123	410.00	411.00	1.00	0.04	0.06	
		Q181125	411.00	412.00	1.00	0.04	0.03	
		Q181126	412.00	413.00	1.00	0.04	0.03	
		Q181127	413.00	414.00	1.00	0.05	0.03	
		Q181128	414.00	415.00	1.00	0.04	0.03	
		Q181129	415.00	416.00	1.00	0.04	0.03	
		Q181130	416.00	417.00	1.00	0.06	0.04	
		Q181132	417.00	418.00	1.00	0.12	0.03	
		Q181133	418.00	419.00	1.00	0.07	0.03	
		Q181134	419.00	420.00	1.00	0.05	0.03	
		Q181136	420.00	421.00	1.00	0.07	0.02	
		Q181137	421.00	422.00	1.00	0.06	0.02	
		Q181138	422.00	423.00	1.00	0.08	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	390.00	14/07/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545802.5	682436.5			Reflex APS	17/07/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.30	138.50		-50.40	Chibougamau Diamond Drilling	18/07/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	325.5	*Casing Pulled*	*Casing (1)*	64.50	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test the West Pipe from Northwest.	This hole intersected four breccia intervals from 63.00m to 292.17m. They range in thickness from 11.00m to 64.17m. From 63.00m to 292.17m, the assays averaged 2.64% Cg over 229.17m; within this intersection a higher grade graphite zone from 63.00m to 192.00m averaged 3.42% Cg over 129.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
69.00			143.4	134.4	-50.6	-50.6	☑	Reflex EZ	57305	
72.00			143.7	134.7	-50.5	-50.5	☑	Reflex EZ	56511	
78.00			144.2	135.2	-50.5	-50.5	☑	Reflex EZ	56309	
81.00			144.1	135.1	-50.6	-50.6	☑	Reflex EZ	56296	
84.00			145.7	136.7	-50.5	-50.5	☑	Reflex EZ	56289	
87.00			144.7	135.7	-50.6	-50.6	☑	Reflex EZ	56236	
90.00			144.6	135.6	-50.7	-50.7	☑	Reflex EZ	56237	
93.00			146.1	137.1	-50.8	-50.8	☑	Reflex EZ	56250	
96.00			146.5	137.5	-51	-51	☑	Reflex EZ	56237	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
99.00			145.7	136.7	-50.7	-50.7	☑	Reflex EZ	56196	
102.00			144.7	135.7	-50.8	-50.8	☑	Reflex EZ	56252	
105.00			145.4	136.4	-50.7	-50.7	☑	Reflex EZ	56173	
108.00			144.7	135.7	-50.8	-50.8	☑	Reflex EZ	56162	
111.00			145.7	136.7	-51.1	-51.1	☑	Reflex EZ	56269	
114.00			144.8	135.8	-50.9	-50.9	☑	Reflex EZ	56190	
117.00			146.2	137.2	-50.9	-50.9	☑	Reflex EZ	56235	
120.00			146.5	137.5	-51	-51	☑	Reflex EZ	56247	
123.00			146.3	137.3	-51.1	-51.1	☑	Reflex EZ	56226	
126.00			146.4	137.4	-50.9	-50.9	☑	Reflex EZ	56242	
129.00			145	136	-50.9	-50.9	☑	Reflex EZ	56212	
132.00			146.4	137.4	-50.9	-50.9	☑	Reflex EZ	56227	
135.00			146.1	137.1	-51.2	-51.2	☑	Reflex EZ	56241	
141.00			146.3	137.3	-50.9	-50.9	☑	Reflex EZ	56190	
147.00			147.4	138.4	-51.2	-51.2	☑	Reflex EZ	55816	
150.00			145.8	136.8	-51.4	-51.4	☑	Reflex EZ	56117	
153.00			146.3	137.3	-51	-51	☑	Reflex EZ	56163	
156.00			145.9	136.9	-51	-51	☑	Reflex EZ	56122	
159.00			146.5	137.5	-51.2	-51.2	☑	Reflex EZ	56158	
162.00			146.7	137.7	-51	-51	☑	Reflex EZ	56157	
165.00			146.7	137.7	-50.9	-50.9	☑	Reflex EZ	56167	
171.00			146.2	137.2	-51	-51	☑	Reflex EZ	56108	
174.00			147.3	138.3	-51	-51	☑	Reflex EZ	56136	
180.00			146.5	137.5	-50.8	-50.8	☑	Reflex EZ	56125	
183.00			147.1	138.1	-50.9	-50.9	☑	Reflex EZ	56158	
186.00			146	137	-51	-51	☑	Reflex EZ	56126	
189.00			145.7	136.7	-50.9	-50.9	☑	Reflex EZ	56138	
195.00			146.3	137.3	-50.7	-50.7	☑	Reflex EZ	56115	
198.00			146.6	137.6	-50.7	-50.7	☑	Reflex EZ	55956	
201.00			147.9	138.9	-50.8	-50.8	☑	Reflex EZ	56796	
204.00			145.7	136.7	-50.8	-50.8	☑	Reflex EZ	56505	
210.00			145.9	136.9	-50.9	-50.9	☑	Reflex EZ	56172	
213.00			146.6	137.6	-50.7	-50.7	☑	Reflex EZ	56274	
216.00			147.3	138.3	-50.8	-50.8	☑	Reflex EZ	56066	
219.00			146.4	137.4	-50.7	-50.7	☑	Reflex EZ	56215	
222.00			145.3	136.3	-50.8	-50.8	☑	Reflex EZ	56139	
225.00			145.4	136.4	-50.8	-50.8	☑	Reflex EZ	56167	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
228.00			145.3	136.3	-50.8	-50.8	☑	Reflex EZ	56165	
231.00			146.9	137.9	-50.9	-50.9	☑	Reflex EZ	56200	
234.00			145.5	136.5	-50.8	-50.8	☑	Reflex EZ	56180	
237.00			146.6	137.6	-51	-51	☑	Reflex EZ	56179	
240.00			145.6	136.6	-50.8	-50.8	☑	Reflex EZ	56195	
243.00			147.2	138.2	-50.9	-50.9	☑	Reflex EZ	56227	
246.00			146.6	137.6	-50.7	-50.7	☑	Reflex EZ	56207	
249.00			145.8	136.8	-50.8	-50.8	☑	Reflex EZ	56252	
252.00			147	138	-50.7	-50.7	☑	Reflex EZ	56218	
255.00			145.9	136.9	-50.8	-50.8	☑	Reflex EZ	56268	
258.00			146.3	137.3	-50.7	-50.7	☑	Reflex EZ	56180	
261.00			147.1	138.1	-50.7	-50.7	☑	Reflex EZ	56252	
264.00			145.9	136.9	-50.7	-50.7	☑	Reflex EZ	56240	
267.00			146.4	137.4	-50.7	-50.7	☑	Reflex EZ	56211	
270.00			147.5	138.5	-51	-51	☑	Reflex EZ	56237	
273.00			147.3	138.3	-51	-51	☑	Reflex EZ	56220	
276.00			147.8	138.8	-50.9	-50.9	☑	Reflex EZ	56269	
279.00			146.2	137.2	-50.8	-50.8	☑	Reflex EZ	56220	
282.00			146.9	137.9	-51	-51	☑	Reflex EZ	56279	
285.00			147.3	138.3	-51	-51	☑	Reflex EZ	56279	
288.00			147.5	138.5	-51.1	-51.1	☑	Reflex EZ	56283	
291.00			146.1	137.1	-50.9	-50.9	☑	Reflex EZ	56308	
294.00			146.3	137.3	-50.8	-50.8	☑	Reflex EZ	56360	
297.00			147.8	138.8	-51	-51	☑	Reflex EZ	56281	
300.00			148.4	139.4	-50.9	-50.9	☑	Reflex EZ	56546	
303.00			148.3	139.3	-50.9	-50.9	☑	Reflex EZ	56252	
306.00			146.7	137.7	-50.8	-50.8	☑	Reflex EZ	56245	
309.00			147.8	138.8	-50.8	-50.8	☑	Reflex EZ	56397	
312.00			148	139	-50.9	-50.9	☑	Reflex EZ	56301	
315.00			146.7	137.7	-50.8	-50.8	☑	Reflex EZ	56335	
318.00			147.9	138.9	-50.6	-50.6	☑	Reflex EZ	56369	
321.00			148.1	139.1	-50.7	-50.7	☑	Reflex EZ	56312	
324.00			147.7	138.7	-50.7	-50.7	☑	Reflex EZ	56127	
327.00			147.3	138.3	-50.5	-50.5	☑	Reflex EZ	56312	
330.00			147.1	138.1	-50.4	-50.4	☑	Reflex EZ	56226	
333.00			147.1	138.1	-50.6	-50.6	☑	Reflex EZ	56039	
336.00			146.5	137.5	-50.6	-50.6	☑	Reflex EZ	56135	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
339.00			147	138	-50.7	-50.7	☑	Reflex EZ	56303	
342.00			147.5	138.5	-50.5	-50.5	☑	Reflex EZ	56183	
345.00			147.7	138.7	-50.7	-50.7	☑	Reflex EZ	56120	
351.00			147.8	138.8	-50.5	-50.5	☑	Reflex EZ	56209	
354.00			146.5	137.5	-50.6	-50.6	☑	Reflex EZ	56352	
357.00			146.8	137.8	-50.6	-50.6	☑	Reflex EZ	56139	
360.00			146.3	137.3	-50.5	-50.5	☑	Reflex EZ	56207	
363.00			147.7	138.7	-50.7	-50.7	☑	Reflex EZ	56084	
366.00			146.7	137.7	-50.5	-50.5	☑	Reflex EZ	56093	
369.00			147.2	138.2	-50.4	-50.4	☑	Reflex EZ	56017	
372.00			147.5	138.5	-50.4	-50.4	☑	Reflex EZ	56196	
375.00			148.2	139.2	-50.5	-50.5	☑	Reflex EZ	55970	
384.00			148.5	139.5	-50.4	-50.4	☑	Reflex EZ	55884	
387.00			147.9	138.9	-50.5	-50.5	☑	Reflex EZ	55950	
390.00			147.5	138.5	-50.4	-50.4	☑	Reflex EZ	55935	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	59.80	**OB Overburden** From 0 to 56.8 unknown overburden likely sand, boulders, muskeg. From 56.8 to 59.8 boulder size fragments of limestone granite, gneiss. Core fragments range in length from 5 to 25cm.							
59.80	63.00	**SED Sediment** White to brownish-beige limestone, locally vuggy.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.00	- 89.70	**GRPBX Graphitic Breccia** Dark grey to black to brownish-red, brecciated syenite with graphite in the matrix from 63 to 74m. Good graphite in the matrix. Paleo-weathered from 63m to 75.6, friable core, clay sections from 63.5 to 68m. Dense fracture filling albite +/- carbonate veinlets from 75.6 to 83m. From 75.6 to 83 mixture of fractured syenite with breccia intervals. Moderate graphite content.	Q181139	63.00	64.00	1.00	1.18	0.05	
			Q181140	64.00	65.00	1.00	4.22	0.06	
			Q181141	65.00	66.00	1.00	3.21	0.27	
			Q181142	66.00	67.30	1.30	2.4	0.08	
			Q181143	67.30	68.50	1.20	3.69	0.06	
			Q181145	68.50	69.30	0.80	2.47	0.11	
			Q181146	69.30	70.20	0.90	5.49	0.06	2.33
			Q181147	70.20	71.10	0.90	1.72	0.03	2.41
			Q181148	71.10	72.00	0.90	4.69	0.08	2.43
			Q181149	72.00	73.00	1.00	2.43	0.08	2.17
			Q181150	73.00	74.00	1.00	3.23	0.04	2.48
			Q181152	74.00	75.00	1.00	0.35	0.07	
			Q181153	75.00	76.00	1.00	1.89	0.01	
			Q181154	76.00	77.00	1.00	4.4	0.01	
			Q181156	77.00	78.00	1.00	4.1	0.01	
			Q181157	78.00	79.00	1.00	6	0.01	
			Q181158	79.00	80.00	1.00	1.15	0.01	
			Q181159	80.00	81.00	1.00	5.03	0.01	
			Q181160	81.00	82.00	1.00	2.65	0.06	
			Q181161	82.00	83.00	1.00	3.6	0.01	
			Q181162	83.00	84.00	1.00	2.87	0.03	
			Q181163	84.00	85.00	1.00	0.24	0.05	
			Q181165	85.00	86.00	1.00	1.72	0.02	
			Q181166	86.00	87.00	1.00	2.5	0.02	
			Q181167	87.00	88.00	1.00	1.22	0.04	
			Q181168	88.00	88.80	0.80	1.2	0.05	
			Q181169	88.80	89.70	0.90	1.64	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
89.70	101.40	**SYEN Syenite** Medium grey to reddish-brown massive syenite. No visible graphite. From 99.2 to 99.8 mafic dyke dark green massive clay from 99.5 to 99.8 Fault(?)	Q181170	89.70	90.80	1.10	0.4	0.07	
			Q181172	90.80	91.90	1.10	0.56	0.02	
			Q181173	91.90	93.00	1.10	1.98	0.04	
			Q181174	93.00	94.00	1.00	0.37	0.05	
			Q181176	94.00	95.00	1.00	0.94	0.04	
			Q181177	95.00	96.00	1.00	0.62	0.09	
			Q181178	96.00	97.00	1.00	1.14	0.09	
			Q181179	97.00	98.00	1.00	2.31	0.05	
			Q181180	98.00	99.00	1.00	0.96	0.04	
			Q181181	99.00	100.00	1.00	0.3	0.03	
			Q181182	100.00	100.70	0.70	1.2	0.005	
			Q181183	100.70	101.40	0.70	3	0.02	
101.40	112.55	**GRPBX Graphitic Breccia** Dark grey to reddish-brown brecciated syenite. Good graphite flooding in the matrix. Fault gouge at 102.15m. From 102.5 to 104.09 massive medium grained syenite section. No visible graphite.	Q181185	101.40	102.50	1.10	9.06	0.04	
			Q181186	102.50	103.20	0.70	0.91	0.31	
			Q181187	103.20	104.09	0.89	1.22	0.1	
			Q181188	104.09	105.00	0.91	4.86	0.07	
			Q181189	105.00	106.00	1.00	3.95	0.04	
			Q181190	106.00	107.00	1.00	1.96	0.08	
			Q181192	107.00	108.00	1.00	4.22	0.1	
			Q181193	108.00	109.00	1.00	5.67	0.1	
			Q181194	109.00	110.00	1.00	5.19	0.43	
			Q181196	110.00	110.80	0.80	6.89	0.27	
			Q181197	110.80	111.70	0.90	6.88	0.16	
			Q181198	111.70	112.55	0.85	11.1	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
112.55	118.76	**SYEN Syenite** Medium grey to reddish-brown, medium grained, massive syenite. No visible graphite.	Q181199	112.55	113.60	1.05	0.28	0.14	
			Q181200	113.60	114.70	1.10	0.11	0.09	
			Q181201	114.70	115.80	1.10	2.15	0.5	
			Q181202	115.80	116.80	1.00	1.42	0.22	
			Q181203	116.80	117.80	1.00	1.01	0.41	
			Q181205	117.80	118.76	0.96	0.23	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
118.76	184.85	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite. Good graphite as fracture filling veinlets and graphite flooding in the matrix. Angular to subangular syenite fragments 1-5cm in dark grey to black graphite flooded matrix. Few thin syenite intervals. From 129.75 to 131.10 medium grey, massive syenite section, no visible graphite. From 133.1 to 135.06m medium grey, medium to coarse grained, massive syenite. No visible graphite. 136.37 to 138 light grey, massive medium grained syenite, no visible graphite.	Q181206	118.76	119.90	1.14	5.88	0.23	
			Q181207	119.90	121.00	1.10	6.01	0.33	
			Q181208	121.00	122.00	1.00	6.62	0.32	
			Q181209	122.00	123.00	1.00	6.9	0.22	
			Q181210	123.00	124.00	1.00	4.63	0.2	
			Q181212	124.00	125.00	1.00	5.35	0.21	
			Q181213	125.00	126.00	1.00	4.37	0.22	
			Q181214	126.00	127.00	1.00	1.59	0.13	
			Q181216	127.00	128.20	1.20	0.13	0.1	
			Q181217	128.20	129.00	0.80	8.75	0.28	
			Q181218	129.00	129.75	0.75	5.1	0.16	
			Q181219	129.75	131.10	1.35	0.72	0.35	2.63
			Q181220	131.10	132.10	1.00	5.62	0.51	2.63
			Q181221	132.10	133.10	1.00	5.85	0.83	2.61
			Q181222	133.10	134.10	1.00	1.44	0.31	2.65
			Q181223	134.10	135.06	0.96	1.34	0.16	2.62
			Q181225	135.06	136.37	1.31	5.22	0.19	
			Q181226	136.37	137.20	0.83	0.76	0.18	
			Q181227	137.20	138.00	0.80	0.45	0.14	
			Q181228	138.00	139.00	1.00	1.63	0.7	
			Q181229	139.00	140.00	1.00	4.8	0.25	
			Q181230	140.00	141.00	1.00	5.13	0.87	
			Q181232	141.00	142.00	1.00	5.92	0.21	
			Q181233	142.00	143.00	1.00	2.5	0.25	
			Q181234	143.00	144.00	1.00	8.47	0.3	
			Q181236	144.00	145.00	1.00	8.14	0.32	
			Q181237	145.00	146.00	1.00	2.13	0.27	
			Q181238	146.00	147.00	1.00	6.41	0.28	
			Q181239	147.00	148.00	1.00	4.07	0.35	
			Q181240	148.00	149.00	1.00	3.11	0.31	
			Q181241	149.00	150.00	1.00	3.01	0.31	
			Q181242	150.00	151.00	1.00	7.28	0.38	
			Q181243	151.00	152.00	1.00	4.69	0.42	
			Q181245	152.00	153.00	1.00	7.5	0.11	
			Q181246	153.00	154.00	1.00	5.52	0.24	
			Q181247	154.00	155.00	1.00	6.59	0.5	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q181248	155.00	156.00	1.00	4.7	0.5	
		Q181249	156.00	157.00	1.00	5.69	0.41	
		Q181250	157.00	158.00	1.00	4.27	0.84	
		Q181252	158.00	159.00	1.00	0.56	0.46	
		Q181253	159.00	160.00	1.00	5.94	0.59	
		Q181254	160.00	161.00	1.00	3.42	0.18	
		Q181256	161.00	162.00	1.00	7.06	0.39	
		Q181257	162.00	163.00	1.00	3.98	0.35	
		Q181258	163.00	164.00	1.00	3.77	0.49	
		Q181259	164.00	165.00	1.00	2.82	0.13	
		Q181260	165.00	166.00	1.00	4.59	0.48	
		Q181261	166.00	167.00	1.00	5.09	0.46	
		Q181262	167.00	168.00	1.00	1.72	0.42	
		Q181263	168.00	169.00	1.00	3.14	0.42	
		Q181265	169.00	170.00	1.00	8.05	0.45	
		Q181266	170.00	171.00	1.00	5.12	0.47	
		Q181267	171.00	172.00	1.00	3.56	0.49	
		Q181268	172.00	173.00	1.00	2.63	0.48	
		Q181269	173.00	174.00	1.00	1.75	0.43	
		Q181270	174.00	175.00	1.00	2.8	0.51	
		Q181272	175.00	176.00	1.00	1.86	0.2	
		Q181273	176.00	177.00	1.00	2.64	0.27	
		Q181274	177.00	178.00	1.00	2.62	0.39	
		Q181276	178.00	179.00	1.00	4.19	0.34	
		Q181277	179.00	180.00	1.00	4.17	0.3	
		Q181278	180.00	181.00	1.00	0.16	0.41	
		Q181279	181.00	182.00	1.00	4.19	0.41	
		Q181280	182.00	183.00	1.00	2.72	0.53	
		Q181281	183.00	184.00	1.00	3.07	0.49	
		Q181282	184.00	184.85	0.85	1.75	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
184.85	198.85	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate intrusive. 1-8mm subhedral to subrounded feldspar crystals. No visible graphite.	Q181283	184.85	186.00	1.15	3.84	0.42	
			Q181285	186.00	187.00	1.00	3.01	0.39	
			Q181286	187.00	188.00	1.00	2.8	0.37	
			Q181287	188.00	189.00	1.00	2.37	0.37	
			Q181288	189.00	190.00	1.00	2.48	0.32	
			Q181289	190.00	191.00	1.00	2.12	0.34	
			Q181290	191.00	192.00	1.00	2.06	0.31	
			Q181292	192.00	193.00	1.00	1.81	0.3	
			Q181293	193.00	194.00	1.00	1.78	0.29	
			Q181294	194.00	195.00	1.00	1.59	0.3	
			Q181296	195.00	196.00	1.00	1.6	0.33	
			Q181297	196.00	197.00	1.00	1.83	0.29	
			Q181298	197.00	198.00	1.00	1.7	0.31	
			Q181299	198.00	198.85	0.85	1.54	0.28	
198.85	213.00	**GRDR Granodiorite** Medium grey with a pink hue, medium grained, massive granodiorite (?). More mafic components than typical syenite. 10-15% 1-3mm dark green amphibole. Locally few subhedral 5-10mm feldspars.	Q181300	198.85	200.00	1.15	0.1	0.11	
			Q181301	200.00	201.00	1.00	0.03	0.05	
			Q181302	201.00	202.00	1.00	0.04	0.06	
			Q181303	202.00	203.00	1.00	0.01	0.05	
			Q181305	203.00	204.00	1.00	0.17	0.1	
			Q181306	204.00	205.00	1.00	0.03	0.08	
			Q181307	205.00	206.00	1.00	0.03	0.06	
			Q181308	206.00	207.00	1.00	0.04	0.07	
			Q181309	207.00	208.00	1.00	0.04	0.08	
			Q181310	208.00	209.00	1.00	0.12	0.05	
			Q181312	209.00	210.00	1.00	0.02	0.05	
			Q181313	210.00	211.00	1.00	0.03	0.06	
			Q181314	211.00	212.00	1.00	0.05	0.07	
			Q181316	212.00	213.00	1.00	0.01	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
213.00	228.00	**FBX Felsic Breccia** Polymictic felsic breccia. Subrounded to subangular fragments of gneiss, syenite and few of mafic composition in fine grained very dark grey matrix. Non conductive. No visible graphite. Fragments range in size from 1cm to 3cm. Matrix supported. Looks different than the typical graphite breccia.	Q181317	213.00	214.00	1.00	0.13	0.16	
			Q181318	214.00	215.00	1.00	0.12	0.19	
			Q181319	215.00	216.00	1.00	0.04	0.16	
			Q181320	216.00	217.00	1.00	0.11	0.26	
			Q181321	217.00	218.00	1.00	0.75	0.32	
			Q181322	218.00	219.00	1.00	1.71	0.36	
			Q181323	219.00	220.00	1.00	1.67	0.34	
			Q181325	220.00	221.00	1.00	2.39	0.35	
			Q181326	221.00	222.00	1.00	2.61	0.33	
			Q181327	222.00	223.00	1.00	1.57	0.34	
			Q181328	223.00	224.00	1.00	1.33	0.31	
			Q181329	224.00	225.00	1.00	0.83	0.29	
			Q181330	225.00	226.00	1.00	0.52	0.25	
			Q181332	226.00	227.00	1.00	0.85	0.26	
			Q181333	227.00	228.00	1.00	1.05	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
228.00	267.15	**GRPBX Graphitic Breccia** Medium to dark grey with a pinkish hue polymictic breccia. Weak to moderate graphite in the matrix that increases downhole. Large 15-50cm syenite, gneiss fragments and smaller mafic fragments in dark grey, fine grained matrix. From 248 to 248.9 medium grey, fine grained, massive intermediate dyke. Both contacts at 40 dca. No visible graphite. Good graphite in the matrix from 250 to 261.5m.	Q181334	228.00	229.00	1.00	1.2	0.31	
			Q181336	229.00	230.00	1.00	1.82	0.24	
			Q181337	230.00	231.00	1.00	1.73	0.23	
			Q181338	231.00	232.00	1.00	1.33	0.25	2.65
			Q181339	232.00	233.00	1.00	1.09	0.1	2.64
			Q181340	233.00	234.00	1.00	3.2	0.29	2.65
			Q181341	234.00	235.00	1.00	1.06	0.23	2.64
			Q181342	235.00	236.00	1.00	1.63	0.25	2.65
			Q181343	236.00	237.00	1.00	3.53	0.32	
			Q181345	237.00	238.00	1.00	1.64	0.18	
			Q181346	238.00	239.00	1.00	0.95	0.2	
			Q181347	239.00	240.00	1.00	0.84	0.16	
			Q181348	240.00	241.00	1.00	2.26	0.2	
			Q181349	241.00	242.00	1.00	3.44	0.29	
			Q181350	242.00	243.00	1.00	1.46	0.1	
			Q181352	243.00	244.00	1.00	1.51	0.17	
			Q181353	244.00	245.00	1.00	2.18	0.29	
			Q181354	245.00	246.00	1.00	1.91	0.27	
			Q181356	246.00	247.00	1.00	2.14	0.34	
			Q181357	247.00	248.00	1.00	0.59	0.25	
			Q181358	248.00	249.00	1.00	0.41	0.09	
			Q181359	249.00	250.00	1.00	1.27	0.12	
			Q181360	250.00	251.00	1.00	3.63	0.25	
			Q181361	251.00	252.00	1.00	3.1	0.43	
			Q181362	252.00	253.00	1.00	1.53	0.25	
			Q181363	253.00	254.00	1.00	1.89	0.15	
			Q181365	254.00	255.00	1.00	1.43	0.2	
			Q181366	255.00	256.00	1.00	7.37	0.23	
			Q181367	256.00	257.00	1.00	3.03	0.24	
			Q181368	257.00	258.00	1.00	2.87	0.34	
			Q181369	258.00	259.00	1.00	4.82	0.48	
			Q181370	259.00	260.00	1.00	2.95	0.2	
			Q181372	260.00	261.00	1.00	3.57	0.28	
			Q181373	261.00	262.00	1.00	1.95	0.23	
			Q181374	262.00	263.00	1.00	0.77	0.2	
			Q181376	263.00	264.00	1.00	2.17	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q181377	264.00	265.00	1.00	0.08	0.07	
			Q181378	265.00	266.00	1.00	1.68	0.27	
			Q181379	266.00	267.15	1.15	4.39	0.5	
267.15	269.37	**SYEN Syenite** Medium grey, medium grained, massive syenite. Weak gneissic banding. No visible graphite. Both contacts sharp at 50 dca.	Q181380	267.15	268.25	1.10	0.09	0.14	
			Q181381	268.25	269.37	1.12	0.04	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
269.37	292.17	**GRPBX Graphitic Breccia** Polymictic breccia with large subrounded fragments of syenite in a fine grained dark grey matrix. Weak graphite as isolated fragments from 271 to 275m. Similar to the felsic breccia unit but contains some graphite.	Q181382	269.37	270.30	0.93	1.37	0.37	
			Q181383	270.30	271.20	0.90	1.2	0.33	
			Q181385	271.20	272.10	0.90	1.91	0.42	
			Q181386	272.10	273.00	0.90	2.06	0.25	
			Q181387	273.00	274.00	1.00	1.95	0.24	
			Q181388	274.00	275.00	1.00	2.98	0.33	
			Q181389	275.00	276.00	1.00	2.18	0.25	
			Q181390	276.00	277.00	1.00	1	0.31	
			Q181392	277.00	278.00	1.00	2.75	0.34	
			Q181393	278.00	279.00	1.00	1.76	0.32	
			Q181394	279.00	280.00	1.00	2.23	0.39	
			Q181396	280.00	281.00	1.00	2.63	0.26	
			Q181397	281.00	282.00	1.00	1.97	0.23	
			Q181398	282.00	283.00	1.00	2.72	0.26	
			Q181399	283.00	284.00	1.00	2.63	0.26	
			Q181400	284.00	285.00	1.00	3.02	0.23	
			Q181401	285.00	286.00	1.00	4.25	0.27	
			Q181402	286.00	287.00	1.00	3.77	0.26	
			Q181403	287.00	288.00	1.00	3.94	0.26	
			Q181405	288.00	289.00	1.00	2.33	0.27	
			Q181406	289.00	290.00	1.00	1.01	0.17	
			Q181407	290.00	291.10	1.10	1.04	0.1	
			Q181408	291.10	292.17	1.07	0.51	0.24	
292.17	297.48	**ID Intermediate Dyke** Dark to medium grey series of intermediate dykes. Feldspar porphyry from upper contact to 293.5 and fine grained massive dyke from 294 to 295.6. Thin syenite sections near the lower contact. Lower contact sharp at 40 dca. Not conductive, no visible graphite.	Q181409	292.17	293.10	0.93	0.02	0.16	
			Q181410	293.10	294.00	0.90	0.07	0.12	
			Q181412	294.00	295.00	1.00	0.08	0.01	
			Q181413	295.00	296.00	1.00	0.08	0.01	
			Q181414	296.00	296.70	0.70	0.01	0.02	
			Q181416	296.70	297.48	0.78	0.03	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
297.48	301.85	**SYEN Syenite** Light pink , massive coarse syenite cut by light grey to greenish-grey massive intermediate dyke from 298.5 to 299.8. Not conductive. No visible graphite.	Q181417	297.48	298.43	0.95	0.04	0.06	
			Q181418	298.43	299.50	1.07	0.05	0.01	
			Q181419	299.50	300.70	1.20	0.05	0.09	
			Q181420	300.70	301.85	1.15	0.08	0.1	
301.85	312.20	**ID Intermediate Dyke** Feldspar porphyry. Medium to dark grey to greenish-grey fine grained matrix with pinkish-red subhedral feldspar phenocrysts 2-8mm in size. 1-3mm subhedral dark green amphibole phenocrysts at equal amount. Not conductive. No visible graphite. From 311.7 to 312 fault. Broken core in angular fragments 1-3cm, minor fault gouge.	Q181421	301.85	303.00	1.15	0.05	0.11	
			Q181422	303.00	304.00	1.00	0.05	0.07	
			Q181423	304.00	305.00	1.00	0.02	0.1	
			Q181425	305.00	306.00	1.00	0.05	0.14	
			Q181426	306.00	307.00	1.00	0.07	0.14	
			Q181427	307.00	308.00	1.00	0.01	0.21	
			Q181428	308.00	309.00	1.00	0.01	0.18	
			Q181429	309.00	310.00	1.00	0.01	0.15	
			Q181430	310.00	311.00	1.00	0.01	0.16	
			Q181432	311.00	312.20	1.20	0.01	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
312.20	321.30	**SYEN Syenite** Grey to reddish-pink fine grained syenite cut by dark grey fine grained massive, intermediate dyke from 316.6 to 317.6m. No visible graphite. Not conductive.	Q181433	312.20	313.10	0.90	0.24	0.15	
			Q181434	313.10	314.00	0.90	0.17	0.08	
			Q181436	314.00	315.00	1.00	0.63	0.25	
			Q181437	315.00	316.00	1.00	0.08	0.24	
			Q181438	316.00	317.00	1.00	0.04	0.04	
			Q181439	317.00	318.00	1.00	0.12	0.02	
			Q181440	318.00	319.00	1.00	0.09	0.05	
			Q181441	319.00	320.00	1.00	0.33	0.15	
			Q181442	320.00	321.30	1.30	0.07	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
321.30	378.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey when wet, medium to coarse grained, equigranular. Salt and pepper texture. 336.8 to 338 coarse syenite with moderate gneissic banding. From 342.4 to 348 same rock type just finer grained cut by coarse grained dykelets of same composition. Weak graphite as fracture filling veinlets from 351 to 352m.	Q181443	321.30	322.20	0.90	0.04	0.03	
			Q181445	322.20	323.10	0.90	0.16	0.04	
			Q181446	323.10	324.00	0.90	0.01	0.02	
			Q181447	324.00	325.00	1.00	0.01	0.01	
			Q181448	325.00	326.00	1.00	0.01	0.02	
			Q181449	326.00	327.00	1.00	0.09	0.01	
			Q181450	327.00	328.00	1.00	0.12	0.01	
			Q181452	328.00	329.00	1.00	0.01	0.02	
			Q181453	329.00	330.00	1.00	0.01	0.02	
			Q181454	330.00	331.00	1.00	0.08	0.18	
			Q181456	331.00	332.00	1.00	0.01	0.02	
			Q181457	332.00	333.00	1.00	0.03	0.02	
			Q181458	333.00	334.00	1.00	0.04	0.01	
			Q181459	334.00	335.00	1.00	0.04	0.01	
			Q181460	335.00	336.00	1.00	0.05	0.03	
			Q181461	336.00	337.00	1.00	0.02	0.05	
			Q181462	337.00	338.00	1.00	0.01	0.1	
			Q181463	338.00	339.00	1.00	0.01	0.08	
			Q181465	339.00	340.00	1.00	0.09	0.04	
			Q181466	340.00	341.00	1.00	0.01	0.02	
			Q181467	341.00	342.00	1.00	0.12	0.01	
			Q181468	342.00	343.00	1.00	0.01	0.02	
			Q181469	343.00	344.00	1.00	0.02	0.02	
			Q181470	344.00	345.00	1.00	0.01	0.03	
			Q181472	345.00	346.00	1.00	0.01	0.03	
			Q181473	346.00	347.00	1.00	0.01	0.02	
			Q181474	347.00	348.00	1.00	0.01	0.04	
			Q181476	348.00	349.00	1.00	0.01	0.03	
			Q181477	349.00	350.00	1.00	0.01	0.04	
			Q181478	350.00	351.00	1.00	0.01	0.04	
			Q181479	351.00	352.00	1.00	0.01	0.04	
			Q181480	352.00	353.00	1.00	0.01	0.03	
			Q181481	353.00	354.00	1.00	0.01	0.01	
			Q181482	354.00	355.00	1.00	0.06	0.02	
			Q181483	355.00	356.00	1.00	0.08	0.02	
			Q181485	356.00	357.00	1.00	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q181486	357.00	358.00	1.00	0.01	0.03	
			Q181487	358.00	359.00	1.00	0.01	0.03	
			Q181488	359.00	360.00	1.00	0.02	0.02	
			Q181489	360.00	361.00	1.00	0.01	0.02	
			Q181490	361.00	362.00	1.00	0.02	0.02	
			Q181492	362.00	363.00	1.00	0.01	0.02	
			Q181493	363.00	364.00	1.00	0.01	0.02	
			Q181494	364.00	365.00	1.00	0.03	0.03	
			Q181496	365.00	366.00	1.00	0.01	0.02	
			Q181497	366.00	367.00	1.00	0.01	0.02	
			Q181498	367.00	368.00	1.00	0.01	0.02	
			Q181499	368.00	369.00	1.00	0.03	0.02	
			Q181500	369.00	370.00	1.00	0.05	0.01	
			Q181501	370.00	371.00	1.00	0.01	0.01	
			Q181502	371.00	372.00	1.00	0.01	0.02	
			Q181503	372.00	373.00	1.00	0.03	0.02	
			Q181505	373.00	374.00	1.00	0.03	0.02	
			Q181506	374.00	375.00	1.00	0.01	0.02	
			Q181507	375.00	376.00	1.00	0.03	0.04	
			Q181508	376.00	377.00	1.00	0.02	0.03	
			Q181509	377.00	378.00	1.00	0.01	0.03	
378.00	- 387.45	**DIOR Diorite**							
		Intermediate intrusive. Medium grey with a light greenish hue when wet. Medium grained, equigranular, fairly uniform. Salt and pepper texture. Not conductive.	Q181510	378.00	379.00	1.00	0.02	0.02	
			Q181512	379.00	380.00	1.00	0.01	0.03	
			Q181513	380.00	381.00	1.00	0.01	0.02	
			Q181514	381.00	382.00	1.00	0.01	0.02	
			Q181516	382.00	383.00	1.00	0.01	0.03	
			Q181517	383.00	384.00	1.00	0.01	0.03	
			Q181518	384.00	385.00	1.00	0.01	0.02	
			Q181519	385.00	386.00	1.00	0.02	0.02	
			Q181520	386.00	386.75	0.75	0.01	0.02	
			Q181521	386.75	387.45	0.70	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
387.45	390.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey when wet, medium to coarse grained, equigranular. Salt and pepper texture. Darker and coarser than previous unit. Not conductive. EOH 390.0m	Q181522	387.45	388.25	0.80	0.01	0.02	
			Q181523	388.25	389.00	0.75	0.02	0.01	
			Q181525	389.00	390.00	1.00	0.01	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	396.00	18/07/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545848.4	682516.6			Reflex APS	22/07/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	123.80	181.20		-49.70	Chibougamau Diamond Drilling	24/07/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	330	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐			

Purpose	*Results*	*Comments*
Test West Pipe from Northwest	67.00m - 192.10m graphite rich breccia and overprinted syenite with some minor dykes. The assays from 65.00m to 359.00m averaged 2.61% Cg over 294.00m; within this intersection a higher grade graphite zone from 65.00m to 204.63m averaged 4.13% Cg over 139.63m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
75.00			188.8	179.8	-49.7	-49.7	☑	Reflex EZ	56388	
78.00			188.1	179.1	-49.7	-49.7	☑	Reflex EZ	56315	
81.00			188.6	179.6	-49.8	-49.8	☑	Reflex EZ	56267	
84.00			188.1	179.1	-49.8	-49.8	☑	Reflex EZ	56261	
87.00			189.1	180.1	-49.7	-49.7	☑	Reflex EZ	56232	
90.00			188.3	179.3	-49.7	-49.7	☑	Reflex EZ	56223	
93.00			188.3	179.3	-49.8	-49.8	☑	Reflex EZ	56180	
96.00			187.9	178.9	-49.9	-49.9	☑	Reflex EZ	56280	
99.00			188.7	179.7	-49.7	-49.7	☑	Reflex EZ	56204	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
102.00			188	179	-49.8	-49.8	☑	Reflex EZ	56206	
105.00			189.2	180.2	-50	-50	☑	Reflex EZ	56249	
108.00			188.2	179.2	-50.2	-50.2	☑	Reflex EZ	56238	
111.00			189.4	180.4	-49.8	-49.8	☑	Reflex EZ	56226	
114.00			188.1	179.1	-49.9	-49.9	☑	Reflex EZ	56231	
117.00			188.6	179.6	-49.9	-49.9	☑	Reflex EZ	56186	
120.00			188	179	-49.9	-49.9	☑	Reflex EZ	56239	
123.00			188.5	179.5	-49.9	-49.9	☑	Reflex EZ	56183	
126.00			188.8	179.8	-50.1	-50.1	☑	Reflex EZ	56227	
129.00			188.3	179.3	-49.9	-49.9	☑	Reflex EZ	56184	
132.00			188.2	179.2	-49.9	-49.9	☑	Reflex EZ	56261	
135.00			187.9	178.9	-50.1	-50.1	☑	Reflex EZ	56234	
138.00			187.8	178.8	-50	-50	☑	Reflex EZ	56237	
141.00			188.5	179.5	-49.9	-49.9	☑	Reflex EZ	56194	
144.00			188	179	-50	-50	☑	Reflex EZ	56236	
147.00			188.3	179.3	-50	-50	☑	Reflex EZ	56198	
153.00			188.7	179.7	-49.9	-49.9	☑	Reflex EZ	56202	
156.00			188.1	179.1	-50	-50	☑	Reflex EZ	56186	
159.00			188.8	179.8	-49.9	-49.9	☑	Reflex EZ	56199	
162.00			188.8	179.8	-49.8	-49.8	☑	Reflex EZ	56166	
165.00			188.4	179.4	-50.2	-50.2	☑	Reflex EZ	56201	
168.00			188	179	-50	-50	☑	Reflex EZ	56216	
171.00			189.3	180.3	-49.9	-49.9	☑	Reflex EZ	56151	
174.00			188.1	179.1	-50	-50	☑	Reflex EZ	56198	
177.00			189.1	180.1	-50.1	-50.1	☑	Reflex EZ	56163	
180.00			188	179	-50.1	-50.1	☑	Reflex EZ	56201	
183.00			189.5	180.5	-49.9	-49.9	☑	Reflex EZ	56112	
186.00			189.1	180.1	-50.2	-50.2	☑	Reflex EZ	56151	
189.00			188.9	179.9	-50.2	-50.2	☑	Reflex EZ	56158	
192.00			188.5	179.5	-50.2	-50.2	☑	Reflex EZ	56153	
195.00			188.9	179.9	-50	-50	☑	Reflex EZ	56129	
198.00			187.9	178.9	-50.1	-50.1	☑	Reflex EZ	56118	
201.00			188.3	179.3	-50	-50	☑	Reflex EZ	56226	
204.00			189.4	180.4	-50	-50	☑	Reflex EZ	56110	
207.00			188.3	179.3	-50.2	-50.2	☑	Reflex EZ	55928	
213.00			189.3	180.3	-50	-50	☑	Reflex EZ	56678	
216.00			187.9	178.9	-50	-50	☑	Reflex EZ	56393	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
219.00			187.7	178.7	-50.1	-50.1	☑	Reflex EZ	56448	
222.00			189.4	180.4	-49.9	-49.9	☑	Reflex EZ	56200	
225.00			188	179	-50.2	-50.2	☑	Reflex EZ	56294	
228.00			188	179	-50.2	-50.2	☑	Reflex EZ	56693	
231.00			188.4	179.4	-50.1	-50.1	☑	Reflex EZ	56600	
237.00			189.3	180.3	-50	-50	☑	Reflex EZ	56428	
240.00			187.8	178.8	-50	-50	☑	Reflex EZ	56485	
243.00			187.7	178.7	-50.2	-50.2	☑	Reflex EZ	56623	
246.00			188.9	179.9	-50	-50	☑	Reflex EZ	56427	
249.00			190.2	181.2	-50.1	-50.1	☑	Reflex EZ	56452	
252.00			190.4	181.4	-49.9	-49.9	☑	Reflex EZ	56249	
255.00			190.2	181.2	-49.7	-49.7	☑	Reflex EZ	56131	
258.00			189.1	180.1	-50	-50	☑	Reflex EZ	56393	
261.00			189.4	180.4	-49.9	-49.9	☑	Reflex EZ	56339	
264.00			189.2	180.2	-50	-50	☑	Reflex EZ	56180	
267.00			190.3	181.3	-49.6	-49.6	☑	Reflex EZ	55996	
270.00			189.5	180.5	-49.9	-49.9	☑	Reflex EZ	55956	
273.00			189.2	180.2	-50.2	-50.2	☑	Reflex EZ	56117	
276.00			189.2	180.2	-49.9	-49.9	☑	Reflex EZ	56087	
279.00			189.1	180.1	-49.9	-49.9	☑	Reflex EZ	56226	
282.00			189.1	180.1	-49.7	-49.7	☑	Reflex EZ	56196	
285.00			189.8	180.8	-49.8	-49.8	☑	Reflex EZ	55928	
288.00			189.1	180.1	-49.9	-49.9	☑	Reflex EZ	56561	
291.00			190	181	-49.8	-49.8	☑	Reflex EZ	56208	
294.00			189	180	-49.6	-49.6	☑	Reflex EZ	56246	
297.00			189.4	180.4	-49.8	-49.8	☑	Reflex EZ	56292	
300.00			189.1	180.1	-49.7	-49.7	☑	Reflex EZ	56323	
303.00			188.6	179.6	-49.7	-49.7	☑	Reflex EZ	56264	
309.00			189.9	180.9	-49.4	-49.4	☑	Reflex EZ	56213	
312.00			189.3	180.3	-49.7	-49.7	☑	Reflex EZ	56283	
315.00			189.1	180.1	-49.7	-49.7	☑	Reflex EZ	56303	
318.00			188.9	179.9	-49.5	-49.5	☑	Reflex EZ	56176	
321.00			189.6	180.6	-49.7	-49.7	☑	Reflex EZ	56338	
324.00			189.6	180.6	-49.5	-49.5	☑	Reflex EZ	56179	
327.00			189.2	180.2	-49.7	-49.7	☑	Reflex EZ	56247	
330.00			188.8	179.8	-49.5	-49.5	☑	Reflex EZ	56237	
333.00			190	181	-49.5	-49.5	☑	Reflex EZ	56185	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
336.00			189.5	180.5	-49.5	-49.5	☑	Reflex EZ	56305	
339.00			190.2	181.2	-49.7	-49.7	☑	Reflex EZ	56208	
342.00			189	180	-49.6	-49.6	☑	Reflex EZ	56287	
345.00			189.6	180.6	-49.5	-49.5	☑	Reflex EZ	56176	
348.00			190.1	181.1	-49.7	-49.7	☑	Reflex EZ	56213	
351.00			189.3	180.3	-49.6	-49.6	☑	Reflex EZ	56208	
354.00			189.3	180.3	-49.6	-49.6	☑	Reflex EZ	56198	
357.00			189.2	180.2	-49.6	-49.6	☑	Reflex EZ	56153	
360.00			190.3	181.3	-49.5	-49.5	☑	Reflex EZ	56081	
363.00			189.4	180.4	-49.7	-49.7	☑	Reflex EZ	56234	
366.00			189.5	180.5	-49.7	-49.7	☑	Reflex EZ	55950	
369.00			190.1	181.1	-49.5	-49.5	☑	Reflex EZ	55939	
372.00			190.1	181.1	-49.5	-49.5	☑	Reflex EZ	56136	
375.00			189.1	180.1	-49.6	-49.6	☑	Reflex EZ	56230	
378.00			190.5	181.5	-49.6	-49.6	☑	Reflex EZ	56138	
381.00			188.8	179.8	-49.7	-49.7	☑	Reflex EZ	56069	
384.00			189.1	180.1	-49.5	-49.5	☑	Reflex EZ	56145	
387.00			188.8	179.8	-49.5	-49.5	☑	Reflex EZ	56087	
390.00			189.2	180.2	-49.5	-49.5	☑	Reflex EZ	56335	
393.00			190.5	181.5	-49.4	-49.4	☑	Reflex EZ	56096	
396.00			190.4	181.4	-49.4	-49.4	☑	Reflex EZ	56105	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	59.00	**OB Overburden** Unknown overburden							
59.00	66.25	**SED Sediment** 64.00 to 66.25 Bioclastic limestone. Weak graphite fracture filling. 64.30 to 64.40 Fault gouge mud. Lower contact lost unconformity.	Q181526	65.00	66.25	1.25	0.05	0.32	
66.25	67.00	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Extremely weathered from surface fractures. Lower contact gradational.	Q181527	66.25	67.00	0.75	1.68	0.06	
67.00	76.08	**GRPBX Graphitic Breccia** Dark grey to black. Extremely weathered from surface fracturing. 10% calcite and malachite fracture filling and seams. Lower contact at 63 dca.	Q181528	67.00	68.00	1.00	5.77	0.05	
			Q181529	68.00	69.00	1.00	5.68	0.07	
			Q181531	69.00	70.00	1.00	7.73	0.04	
			Q181530	69.00	70.00	1.00	7.76	0.05	
			Q181532	70.00	71.00	1.00	7.39	0.04	
			Q181533	71.00	72.00	1.00	5.19	0.05	
			Q181534	72.00	73.00	1.00	5.84	0.03	
			Q181536	73.00	74.00	1.00	3.78	0.04	
			Q181537	74.00	75.00	1.00	4.55	0.04	
			Q181538	75.00	76.09	1.09	4.1	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
76.08	91.89	**SYENOP Syenite with Graphitic Overprinting** Orange to pink with grey to dark grey graphite overprinting and fracture filling. Massive and very hard. Unit is still extremely weathered in what is colloquially called paleoweathering but is glacial rebound weathering of very recent events. 5-10% calcite fracture filling. Moderate graphite content. Lower contact at 75 dca.	Q181539	76.09	77.00	0.91	0.29	0.03	
			Q181540	77.00	78.00	1.00	0.2	0.04	
			Q181541	78.00	79.00	1.00	0.08	0.03	
			Q181542	79.00	80.00	1.00	0.08	0.01	
			Q181543	80.00	81.00	1.00	3.08	0.02	
			Q181545	81.00	82.00	1.00	2.85	0.05	2.52
			Q181546	82.00	83.00	1.00	5.48	0.03	2.43
			Q181547	83.00	84.00	1.00	4.83	0.02	2.38
			Q181548	84.00	85.00	1.00	1.19	0.01	2.51
			Q181549	85.00	86.00	1.00	5.11	0.01	2.43
			Q181550	86.00	87.00	1.00	6.11	0.01	
			Q181551	86.00	87.00	1.00	6	0.01	
			Q181552	87.00	88.00	1.00	7.05	0.01	
			Q181553	88.00	89.00	1.00	4.06	0.01	
			Q181554	89.00	90.00	1.00	0.01	0.03	
			Q181556	90.00	91.00	1.00	0.05	0.01	
			Q181557	91.00	91.89	0.89	0.05	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
91.89	106.22	**GRPBX Graphitic Breccia** 50% graphite breccia 50% overprinted syenite gneiss. Dark grey with orange. Still quite weathered but less than 5% calcite fracture filling as rock becomes more competent. Lower contact at 59 dca.	Q181558	91.89	93.00	1.11	9.98	0.02	
			Q181559	93.00	94.00	1.00	4.13	0.05	2.35
			Q181560	94.00	95.00	1.00	1.07	0.08	2.44
			Q181561	95.00	96.00	1.00	3.25	0.05	2.44
			Q181562	96.00	97.00	1.00	3.59	0.02	2.43
			Q181563	97.00	98.00	1.00	5.7	0.01	2.4
			Q181565	98.00	99.00	1.00	2.02	0.15	
			Q181566	99.00	100.00	1.00	5.72	0.02	
			Q181567	100.00	101.00	1.00	7.01	0.01	
			Q181568	101.00	102.00	1.00	6.45	0.01	
			Q181569	102.00	103.00	1.00	5.03	0.02	
			Q181571	103.00	104.00	1.00	6.33	0.02	
			Q181570	103.00	104.00	1.00	6.34	0.01	
			Q181572	104.00	105.00	1.00	7.32	0.03	
			Q181573	105.00	106.22	1.22	7.33	0.02	
106.22	107.39	**SYENOP Syenite with Graphitic Overprinting** Light grey. Massive and very hard. Weak to moderate graphite content. Lower contact at 59 dca.	Q181574	106.22	107.39	1.17	0.29	0.59	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
107.39	129.45	**GRPBX Graphitic Breccia** Dark grey with 5% syenite. Strong to moderate graphite content. Lower contact at 39 dca.	Q181576	107.39	108.00	0.61	2.81	0.06	
			Q181577	108.00	109.00	1.00	5.67	0.05	
			Q181578	109.00	110.00	1.00	5.57	0.1	
			Q181579	110.00	111.00	1.00	4.21	0.05	
			Q181580	111.00	112.00	1.00	5.34	0.2	
			Q181581	112.00	113.00	1.00	4.69	0.25	
			Q181582	113.00	114.00	1.00	4.23	0.18	
			Q181583	114.00	115.00	1.00	3.35	0.1	
			Q181585	115.00	116.00	1.00	0.03	0.12	
			Q181586	116.00	117.00	1.00	3.52	0.15	
			Q181587	117.00	118.00	1.00	6.35	0.14	
			Q181588	118.00	119.00	1.00	2.53	0.35	
			Q181589	119.00	120.00	1.00	3.09	0.27	
			Q181590	120.00	121.00	1.00	6.12	0.25	
			Q181591	120.00	121.00	1.00	6.36	0.27	
			Q181592	121.00	122.00	1.00	5.83	0.38	
			Q181593	122.00	123.00	1.00	8.17	0.42	
			Q181594	123.00	124.00	1.00	8.54	0.39	
			Q181596	124.00	125.00	1.00	4.73	0.37	
			Q181597	125.00	126.00	1.00	5.39	0.23	
			Q181598	126.00	127.00	1.00	1.48	0.36	
			Q181599	127.00	128.00	1.00	3.65	0.12	
			Q181600	128.00	129.00	1.00	2.3	0.43	
			Q181601	129.00	129.45	0.45	5.73	0.14	
129.45	130.75	**MD Mafic Dyke** Very dark green and fine grained. Massive with 5% calcite fracture filling and 1mm calcite phenocryst replacement? Lower contact sharp at 47 dca.	Q181602	129.45	130.75	1.30	0.13	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
130.75	192.10	**GRPBX Graphitic Breccia** Very dark grey to black. Fragments range from 1cm and subrounded to large 10cm or greater subrounded pieces of syenite that is well overprinted and fracture filled. Unit is glassier than East pipe breccias. 149.75 to 150.50 Fault zone broken blocky core. Lower contact is difficult to see due to the blackness of this unit and next at 47 dca.	Q181603	130.75	132.00	1.25	4.65	0.31	
			Q181605	132.00	133.00	1.00	5.69	0.21	
			Q181606	133.00	134.00	1.00	3.4	0.41	
			Q181607	134.00	135.00	1.00	4.41	0.21	
			Q181608	135.00	136.00	1.00	6.4	0.32	
			Q181609	136.00	137.00	1.00	5.68	0.6	
			Q181611	137.00	138.00	1.00	6.75	0.39	
			Q181610	137.00	138.00	1.00	6.85	0.36	
			Q181612	138.00	139.00	1.00	3.71	0.48	
			Q181613	139.00	140.00	1.00	5.73	0.51	
			Q181614	140.00	141.00	1.00	7.06	0.43	
			Q181616	141.00	142.00	1.00	4.07	0.4	
			Q181617	142.00	143.00	1.00	6.8	0.23	
			Q181618	143.00	144.00	1.00	4.71	0.5	
			Q181619	144.00	145.00	1.00	5.8	0.21	
			Q181620	145.00	146.00	1.00	9.72	0.25	
			Q181621	146.00	147.00	1.00	5.2	0.33	
			Q181622	147.00	148.00	1.00	6.64	0.31	
			Q181623	148.00	149.00	1.00	5.74	0.5	
			Q181625	149.00	150.00	1.00	4.54	0.38	
			Q181626	150.00	151.00	1.00	4.61	0.08	
			Q181627	151.00	152.00	1.00	2.74	0.12	
			Q181628	152.00	153.00	1.00	4.67	0.32	
			Q181629	153.00	154.00	1.00	5.35	0.52	
			Q181630	154.00	155.00	1.00	2.64	0.4	
			Q181631	154.00	155.00	1.00	2.24	0.42	
			Q181632	155.00	156.00	1.00	4.86	0.37	
			Q181633	156.00	157.00	1.00	5.78	0.31	
			Q181634	157.00	158.00	1.00	3.08	0.4	
			Q181636	158.00	159.00	1.00	8.22	0.68	
			Q181637	159.00	160.00	1.00	6.04	0.3	
			Q181638	160.00	161.00	1.00	3.6	0.68	
			Q181639	161.00	162.00	1.00	6.67	0.37	
			Q181640	162.00	163.00	1.00	7.13	0.39	
			Q181641	163.00	164.00	1.00	6.59	0.39	
			Q181642	164.00	165.00	1.00	5.72	0.31	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q181643	165.00	166.00	1.00	6.95	0.43	
		Q181645	166.00	167.00	1.00	1.91	0.65	
		Q181646	167.00	168.00	1.00	4.34	0.68	
		Q181647	168.00	169.00	1.00	5.24	0.49	
		Q181648	169.00	170.00	1.00	5	0.46	
		Q181649	170.00	171.00	1.00	4.68	0.41	
		Q181650	171.00	172.00	1.00	5.59	0.47	
		Q181651	171.00	172.00	1.00	5.39	0.47	
		Q181652	172.00	173.00	1.00	5.23	0.32	
		Q181653	173.00	174.00	1.00	1.08	0.15	
		Q181654	174.00	175.00	1.00	6.68	0.41	
		Q181656	175.00	176.00	1.00	5.4	0.24	
		Q181657	176.00	177.00	1.00	3.73	0.54	
		Q181658	177.00	178.00	1.00	1.49	0.29	
		Q181659	178.00	179.00	1.00	0.3	0.27	
		Q181660	179.00	180.00	1.00	0.74	0.28	
		Q181661	180.00	181.00	1.00	1.91	0.38	
		Q181662	181.00	182.00	1.00	5.06	1	
		Q181663	182.00	183.00	1.00	2.69	0.51	
		Q181665	183.00	184.00	1.00	2.32	0.48	
		Q181666	184.00	185.00	1.00	2.56	0.53	
		Q181667	185.00	186.00	1.00	1.12	0.5	
		Q181668	186.00	187.00	1.00	1.48	0.52	
		Q181669	187.00	188.00	1.00	1.1	0.51	
		Q181670	188.00	189.00	1.00	3.48	0.53	
		Q181671	188.00	189.00	1.00	3.65	0.56	
		Q181672	189.00	190.00	1.00	3.06	0.57	
		Q181673	190.00	191.00	1.00	2.17	0.45	
		Q181674	191.00	192.10	1.10	3.53	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.10	204.63	**FD Felsic Dyke** Feldspar Porphyry. Very dark blue. Glassy and very hard and massive. 2% 1mm feldspar round phenocrysts. Conductivity meter shows weak conductivity. No visible graphite. Unit becomes lighter to grey near bottom but stays dark when wet. Lower contact at 47 dca.	Q181676	192.10	193.00	0.90	4.66	0.34	
			Q181677	193.00	194.00	1.00	4.23	0.38	2.52
			Q181678	194.00	195.00	1.00	3.44	0.41	2.53
			Q181679	195.00	196.50	1.50	2.89	0.41	2.59
			Q181680	196.50	198.00	1.50	2.42	0.39	2.64
			Q181681	198.00	199.50	1.50	2.13	0.38	2.59
			Q181682	199.50	201.00	1.50	2.03	0.36	
			Q181683	201.00	202.50	1.50	2.01	0.35	
			Q181685	202.50	204.00	1.50	1.75	0.29	
			Q181686	204.00	204.63	0.63	1.83	0.11	
204.63	213.45	**DIOR Diorite** Very dark green with red tinge. Unit is medium grained with 40% quartz and 50% amphiboles and 2-3% plagioclase or quartz eye phenocrysts that have chill margins of 102 cm surrounding them. Possibly a felsic porphyritic unit except for the salt and pepper texture present. 204.63 t 205.53m A red tinged chill margin between this unit and above unit. Lower contact of chill at 80 dca. Lower contact sharp at 42 dca.	Q181687	204.63	205.52	0.89	0.12	0.69	
			Q181688	205.52	207.00	1.48	0.05	0.15	
			Q181689	207.00	208.50	1.50	0.01	0.11	
			Q181691	208.50	210.00	1.50	0.01	0.07	
			Q181690	208.50	210.00	1.50	0.01	0.07	
			Q181692	210.00	211.50	1.50	0.1	0.06	
			Q181693	211.50	213.00	1.50	0.29	0.07	
			Q181694	213.00	213.45	0.45	0.13	0.07	
213.45	218.37	**FD Felsic Dyke** Dark green and fine grained massive felsic with 30% square to subrounded 1-5mm plagioclase phenocrysts. Very hard. Lower contact irregular at 42 dca.	Q181696	213.45	214.50	1.05	0.66	0.25	
			Q181697	214.50	216.00	1.50	0.48	0.24	
			Q181698	216.00	217.50	1.50	0.4	0.22	
			Q181699	217.50	218.37	0.87	0.87	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
218.37	236.60	**DIOR Diorite** As previous. Very dark green with red tinge. Unit is medium grained with 40% quartz and 50% amphiboles and 2-3% plagioclase or quartz eye phenocrysts that have chill margins of 102 cm surrounding them. Possibly a felsic porphyritic unit except for the salt and pepper texture present. Lower contact at 107 dca.	Q181700	218.37	219.00	0.63	0.23	0.14	
			Q181701	219.00	220.50	1.50	0.19	0.07	
			Q181702	220.50	222.00	1.50	0.29	0.07	
			Q181703	222.00	223.50	1.50	0.14	0.05	
			Q181705	223.50	225.00	1.50	0.09	0.07	2.63
			Q181706	225.00	226.50	1.50	0.07	0.09	2.69
			Q181707	226.50	228.00	1.50	0.03	0.09	2.71
			Q181708	228.00	229.50	1.50	0.08	0.09	2.7
			Q181709	229.50	231.00	1.50	0.11	0.09	2.95
			Q181711	231.00	232.50	1.50	0.13	0.07	
			Q181710	231.00	232.50	1.50	0.15	0.08	
			Q181712	232.50	234.00	1.50	0.1	0.11	
			Q181713	234.00	235.50	1.50	0.03	0.08	
			Q181714	235.50	236.50	1.00	0.06	0.08	
			Q181716	236.50	238.00	1.50	1.34	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
236.60	281.45	**FBX Felsic Breccia** Multi coloured from dark grey to dark grey with green and beige fragments. Fragments are large pieces of syenite gneiss and felsic porphyry. Matrix appears to be a fine to very fine grained felsic. I postulate that this is the breccia pipe unit before graphite replacement and represents likely a second event within the pipe before the graphite event which may be 3rd or 4th. 2nd being the brecciation of the dykes that originally intruded this area. 246.38 to 247.19 Mafic dyke Contacts at 27 dca. 278.45 to 278.50 Chloritic fault at 57 dca. 279.44 to 279.80 Mafic dyke at 51 dca with broken fault. Lower contact at 57 dca.	Q181717	238.00	239.00	1.00	0.26	0.23	
			Q181718	239.00	240.00	1.00	0.25	0.34	
			Q181719	240.00	241.50	1.50	0.14	0.34	
			Q181720	241.50	243.00	1.50	0.11	0.23	
			Q181721	243.00	244.00	1.00	0.19	0.29	
			Q181722	244.00	245.00	1.00	0.13	0.37	
			Q181723	245.00	246.38	1.38	0.16	0.24	
			Q181725	246.38	247.19	0.81	0.08	0.11	
			Q181726	247.19	248.00	0.81	0.45	0.21	
			Q181727	248.00	249.00	1.00	0.12	0.21	
			Q181728	249.00	250.50	1.50	0.18	0.17	
			Q181729	250.50	252.00	1.50	0.13	0.21	
			Q181730	252.00	253.50	1.50	0.17	0.12	
			Q181731	252.00	253.50	1.50	0.07	0.11	
			Q181732	253.50	255.00	1.50	0.17	0.24	
			Q181733	255.00	256.50	1.50	0.01	0.13	
			Q181734	256.50	258.00	1.50	0.09	0.18	
			Q181736	258.00	259.50	1.50	0.09	0.11	
			Q181737	259.50	261.00	1.50	0.17	0.16	
			Q181738	261.00	262.50	1.50	0.08	0.13	
			Q181739	262.50	264.00	1.50	0.16	0.17	
			Q181740	264.00	265.50	1.50	0.11	0.12	
			Q181741	265.50	267.00	1.50	0.64	0.21	
			Q181742	267.00	268.50	1.50	0.79	0.28	
			Q181743	268.50	270.00	1.50	0.48	0.24	
			Q181745	270.00	271.50	1.50	0.73	0.21	
			Q181746	271.50	273.00	1.50	0.91	0.22	
			Q181747	273.00	274.50	1.50	0.45	0.18	
			Q181748	274.50	276.00	1.50	0.52	0.24	
			Q181749	276.00	277.50	1.50	0.32	0.2	
			Q181750	277.50	279.00	1.50	0.27	0.26	
			Q181751	277.50	279.00	1.50	0.24	0.31	
			Q181752	279.00	280.00	1.00	0.16	0.38	
			Q181753	280.00	281.00	1.00	0.23	0.23	
			Q181754	281.00	281.45	0.45	0.29	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
281.45	289.33	**DIOR Diorite** As previous. Very dark green with red tinge. Unit is medium grained with 40% quartz and 50% amphiboles and 2-3% plagioclase or quartz eye phenocrysts that have chill margins of 102 cm surrounding them. Possibly a felsic porphyritic unit except for the salt and pepper texture present. 286.39 to 286.58 Gabbro dyke at 40 dca. 287.23 to 287.33 Granite dyke at 35 dca. Lower contact sharp at 20 dca.	Q181756	281.45	282.00	0.55	0.03	0.06	
			Q181757	282.00	283.50	1.50	0.05	0.09	
			Q181758	283.50	285.00	1.50	0.02	0.07	
			Q181759	285.00	286.39	1.39	0.11	0.08	
			Q181760	286.39	287.00	0.61	0.02	0.02	
			Q181761	287.00	288.00	1.00	0.03	0.1	
			Q181762	288.00	289.33	1.33	0.01	0.12	
289.33	299.00	**SYENSL Syenite Sill (unmineralized)** Light green to green. Medium to coarse grained. Massive and hard. Unit has finer grained chill core in center. 298 to 299 unit is strongly fractured. Lower contact fractured at 60 dca.	Q181763	289.33	290.00	0.67	0.02	0.01	
			Q181765	290.00	291.00	1.00	0.03	0.02	
			Q181766	291.00	292.00	1.00	0.04	0.02	
			Q181767	292.00	293.00	1.00	0.03	0.01	
			Q181768	293.00	294.00	1.00	0.02	0.01	
			Q181769	294.00	295.00	1.00	0.02	0.03	
			Q181771	295.00	296.00	1.00	0.04	0.02	
			Q181770	295.00	296.00	1.00	0.05	0.02	
			Q181772	296.00	297.00	1.00	0.06	0.03	
			Q181773	297.00	298.00	1.00	0.12	0.02	
			Q181774	298.00	299.00	1.00	0.18	0.68	
299.00	300.00	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very strongly fractured. Very hard. Lower contact hard to find due to strong fractures.	Q181776	299.00	300.00	1.00	0.45	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
300.00	312.39	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix. 300.00 to 309.00 Strongly fractured and difficult to call a breccia but some conductivity. Lower contact irregular at 80 dca.	Q181777	300.00	301.00	1.00	0.46	0.37	
			Q181778	301.00	302.00	1.00	0.39	0.29	
			Q181779	302.00	303.00	1.00	1.48	0.33	
			Q181780	303.00	304.00	1.00	0.89	0.24	
			Q181781	304.00	305.00	1.00	2.56	0.34	
			Q181782	305.00	306.00	1.00	2.51	0.29	
			Q181783	306.00	307.00	1.00	3.47	0.57	
			Q181785	307.00	308.00	1.00	4.35	0.33	
			Q181786	308.00	309.00	1.00	1.64	0.18	
			Q181787	309.00	310.00	1.00	2.59	0.29	
			Q181788	310.00	311.00	1.00	3.39	0.31	
			Q181789	311.00	312.00	1.00	6.42	0.33	
			Q181791	312.00	312.39	0.39	2.37	0.08	
			Q181790	312.00	312.39	0.39	2.32	0.08	
312.39	313.60	**SYEN Syenite** Grey with orange tinge. Massive and very hard. 313.21 to 313.52 Feldspar porphyry at 73 dca. 313.52 to 313.60 Gneiss or granite dyke at 46 dca. Lower contact at 46 dca.	Q181792	312.39	313.00	0.61	0.25	0.13	
			Q181793	313.00	313.60	0.60	0.21	0.21	
313.60	314.73	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix. Lower contact at 67 dca.	Q181794	313.60	314.73	1.13	3.14	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
314.73	319.40	**SYEN Syenite** Grey with orange tinge. Massive syenite gneiss or diorite? Lower contact at 69 dca.	Q181796	314.73	316.00	1.27	0.56	0.11	
			Q181797	316.00	317.00	1.00	0.14	0.15	
			Q181798	317.00	318.00	1.00	0.18	0.09	
			Q181799	318.00	319.40	1.40	0.28	0.13	
319.40	323.70	**GRPBX Graphitic Breccia** Dark grey with black graphite matrix replacement. Lower contact at 62 dca.	Q181800	319.40	320.00	0.60	1.82	0.16	
			Q181801	320.00	321.00	1.00	4.06	0.35	
			Q181802	321.00	322.00	1.00	5.35	0.37	
			Q181803	322.00	323.00	1.00	4.7	0.25	
			Q181805	323.00	323.70	0.70	3.81	0.21	
323.70	324.68	**SYEN Syenite** Orange with some grey. Syenite gneiss or granite dyke. Massive and very hard. Lower contact crosscuts lower units mineralization at 79 dca.	Q181806	323.70	324.68	0.98	0.08	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
324.68	333.53	**GRPBX Graphitic Breccia** Dark grey with some orange tinge. Black graphite matrix replacement. Very hard. 328.29 to 328.55 Very dark green mafic dyke at 110 dca. Lower contact at 33 dca.	Q181807	324.68	325.00	0.32	3.24	0.15	
			Q181808	325.00	326.00	1.00	4.67	0.27	
			Q181809	326.00	327.00	1.00	5.54	0.05	
			Q181811	327.00	328.00	1.00	2.94	0.28	
			Q181810	327.00	328.00	1.00	2.89	0.25	
			Q181812	328.00	329.00	1.00	4.74	0.87	
			Q181813	329.00	330.00	1.00	5.78	0.37	
			Q181814	330.00	331.00	1.00	4.81	0.35	
			Q181816	331.00	332.00	1.00	4.9	0.3	
			Q181817	332.00	333.00	1.00	5.45	0.39	
			Q181818	333.00	333.53	0.53	3.23	0.09	
333.53	338.49	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Most typical gneiss that I have observed in a while. 336 to 337 40% graphite breccia. Lower contact at 115 dca.	Q181819	333.53	334.00	0.47	0.33	0.1	
			Q181820	334.00	335.00	1.00	0.19	0.07	
			Q181821	335.00	336.00	1.00	0.17	0.09	
			Q181822	336.00	337.00	1.00	3.34	0.17	
			Q181823	337.00	338.00	1.00	0.16	0.1	
			Q181825	338.00	338.49	0.49	0.6	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
338.49	349.93	**GRPBX Graphitic Breccia** Very dark grey with black graphite matrix replacement. Lower contact at 65 dca.	Q181826	338.49	339.00	0.51	4.73	0.27	
			Q181827	339.00	340.00	1.00	4.19	0.32	
			Q181828	340.00	341.00	1.00	6.93	0.29	
			Q181829	341.00	342.00	1.00	5.77	0.43	
			Q181831	342.00	343.00	1.00	4.8	0.5	
			Q181830	342.00	343.00	1.00	4.77	0.47	
			Q181832	343.00	344.00	1.00	6.53	0.37	
			Q181833	344.00	345.00	1.00	5.03	0.4	
			Q181834	345.00	346.00	1.00	3.88	0.43	
			Q181836	346.00	347.00	1.00	4.42	0.33	
			Q181837	347.00	348.00	1.00	4.99	0.31	
			Q181838	348.00	349.00	1.00	3.02	0.26	
			Q181839	349.00	349.93	0.93	9.95	0.17	
349.93	359.73	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Weak to moderate graphite fracture filling and overprinting. Lower contact at 50 dca.	Q181840	349.93	351.00	1.07	0.91	0.16	
			Q181841	351.00	352.00	1.00	0.51	0.11	
			Q181842	352.00	353.00	1.00	0.46	0.1	
			Q181843	353.00	354.00	1.00	0.95	0.16	
			Q181845	354.00	355.00	1.00	0.72	0.16	
			Q181846	355.00	356.00	1.00	0.62	0.16	
			Q181847	356.00	357.00	1.00	0.53	0.15	
			Q181848	357.00	358.00	1.00	1.54	0.17	
			Q181849	358.00	359.00	1.00	0.42	0.17	
			Q181851	359.00	359.73	0.73	0.05	0.07	
			Q181850	359.00	359.73	0.73	0.04	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
359.73	389.03	**SYENSL Syenite Sill (unmineralized)** Green to light green. Medium grained and massive and hard. Lower contact at 59 dca.	Q181852	359.73	361.00	1.27	0.04	0.06	
			Q181853	361.00	362.00	1.00	0.05	0.14	
			Q181854	362.00	363.00	1.00	0.05	0.02	
			Q181856	363.00	364.50	1.50	0.07	0.01	
			Q181857	364.50	366.00	1.50	0.05	0.005	
			Q181858	366.00	367.50	1.50	0.07	0.03	
			Q181859	367.50	369.00	1.50	0.06	0.01	
			Q181860	369.00	370.50	1.50	0.04	0.01	
			Q181861	370.50	372.00	1.50	0.04	0.02	
			Q181862	372.00	373.50	1.50	0.04	0.01	
			Q181863	373.50	375.00	1.50	0.09	0.02	
			Q181865	375.00	376.50	1.50	0.05	0.03	
			Q181866	376.50	378.00	1.50	0.06	0.02	
			Q181867	378.00	379.50	1.50	0.07	0.03	
			Q181868	379.50	381.00	1.50	0.05	0.01	
			Q181869	381.00	382.50	1.50	0.05	0.01	
			Q181870	382.50	384.00	1.50	0.06	0.02	
			Q181871	382.50	384.00	1.50	0.05	0.02	
			Q181872	384.00	385.50	1.50	0.06	0.02	
			Q181873	385.50	387.00	1.50	0.05	0.02	
			Q181874	387.00	388.00	1.00	0.03	0.14	
			Q181876	388.00	389.03	1.03	0.04	0.05	
389.03	396.00	**DIOR Diorite** Grey to blue. Massive and very hard with 50/50 salt and pepper texture of quartz diorite. Local fracture filling graphite. EOH 396.0m	Q181877	389.03	390.00	0.97	0.13	0.19	
			Q181878	390.00	391.00	1.00	0.18	0.22	
			Q181879	391.00	392.00	1.00	0.13	0.21	
			Q181880	392.00	393.00	1.00	0.42	0.27	
			Q181881	393.00	394.00	1.00	1.08	0.32	
			Q181882	394.00	395.00	1.00	1.01	0.21	
			Q181883	395.00	396.00	1.00	0.4	0.17	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	459.00	22/07/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545571.6	682597.1			Reflex APS	26/07/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	125.20	301.30		-50.30	Chibougamau Diamond Drilling	01/08/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	M. Roberts/A. Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	393	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test west pipe from southeast	This hole inetrsected numerous graphitic breccia intervals ranging in thickness from ~1m to 46m from 119.75 to 298.28m. From 106.84m to 367.50m, the assays from this intersection averaged 2.10% Cg over 260.66m; within this intersection a higher grade graphite zone from 119.75m to 220.00m averaged 3.71% Cg over 100.25m.	A. Peshkepia logged from 320 to EOH. Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
87.00			311.3	302.3	-50.7	-50.7	☑	Reflex EZ	56489	
90.00			311	302	-50.6	-50.6	☑	Reflex EZ	56213	
93.00			311.3	302.3	-50.6	-50.6	☑	Reflex EZ	56540	
96.00			311.2	302.2	-50.8	-50.8	☑	Reflex EZ	56528	
108.00			311.5	302.5	-50.6	-50.6	☑	Reflex EZ	56469	
111.00			311.3	302.3	-50.7	-50.7	☑	Reflex EZ	56598	
114.00			309.9	300.9	-50.8	-50.8	☑	Reflex EZ	56519	
117.00			311	302	-50.6	-50.6	☑	Reflex EZ	56498	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
120.00			309.7	300.7	-50.8	-50.8	☑	Reflex EZ	56522	
123.00			310	301	-50.9	-50.9	☑	Reflex EZ	56531	
126.00			309.9	300.9	-50.9	-50.9	☑	Reflex EZ	56532	
132.00			310.1	301.1	-50.9	-50.9	☑	Reflex EZ	56515	
135.00			310.2	301.2	-50.8	-50.8	☑	Reflex EZ	56519	
138.00			311.8	302.8	-50.6	-50.6	☑	Reflex EZ	56470	
141.00			311.8	302.8	-50.6	-50.6	☑	Reflex EZ	56463	
144.00			309.9	300.9	-50.8	-50.8	☑	Reflex EZ	56536	
147.00			310.3	301.3	-50.7	-50.7	☑	Reflex EZ	56518	
150.00			309.8	300.8	-50.8	-50.8	☑	Reflex EZ	56525	
153.00			309.9	300.9	-50.7	-50.7	☑	Reflex EZ	56533	
156.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56538	
159.00			310	301	-50.7	-50.7	☑	Reflex EZ	56544	
162.00			309.9	300.9	-50.8	-50.8	☑	Reflex EZ	56550	
165.00			310.1	301.1	-50.8	-50.8	☑	Reflex EZ	56552	
168.00			309.7	300.7	-50.9	-50.9	☑	Reflex EZ	56554	
171.00			309.8	300.8	-50.9	-50.9	☑	Reflex EZ	56531	
174.00			309.8	300.8	-50.8	-50.8	☑	Reflex EZ	56494	
177.00			309.8	300.8	-50.8	-50.8	☑	Reflex EZ	56423	
180.00			310	301	-50.8	-50.8	☑	Reflex EZ	56264	
183.00			309.9	300.9	-50.8	-50.8	☑	Reflex EZ	56472	
186.00			309.8	300.8	-50.8	-50.8	☑	Reflex EZ	56455	
189.00			309.7	300.7	-50.8	-50.8	☑	Reflex EZ	56411	
192.00			309.3	300.3	-50.8	-50.8	☑	Reflex EZ	56430	
195.00			309.4	300.4	-50.8	-50.8	☑	Reflex EZ	56503	
198.00			309.1	300.1	-50.8	-50.8	☑	Reflex EZ	56611	
201.00			309.5	300.5	-50.8	-50.8	☑	Reflex EZ	56601	
204.00			309.6	300.6	-50.8	-50.8	☑	Reflex EZ	56567	
207.00			309.7	300.7	-50.8	-50.8	☑	Reflex EZ	56566	
210.00			309.6	300.6	-50.8	-50.8	☑	Reflex EZ	56538	
213.00			309.4	300.4	-50.8	-50.8	☑	Reflex EZ	56561	
216.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56485	
219.00			309.7	300.7	-50.7	-50.7	☑	Reflex EZ	56544	
225.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56509	
228.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56526	
231.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56518	
234.00			310.1	301.1	-50.7	-50.7	☑	Reflex EZ	56550	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
237.00			309.8	300.8	-50.8	-50.8	☑	Reflex EZ	56511	
240.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56490	
243.00			309.5	300.5	-50.7	-50.7	☑	Reflex EZ	56513	
246.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56557	
249.00			309.7	300.7	-50.7	-50.7	☑	Reflex EZ	56520	
252.00			309.8	300.8	-50.7	-50.7	☑	Reflex EZ	56518	
255.00			309.6	300.6	-50.6	-50.6	☑	Reflex EZ	56498	
258.00			309.7	300.7	-50.6	-50.6	☑	Reflex EZ	56531	
261.00			309.7	300.7	-50.5	-50.5	☑	Reflex EZ	56508	
264.00			309.7	300.7	-50.5	-50.5	☑	Reflex EZ	56509	
270.00			309.8	300.8	-50.4	-50.4	☑	Reflex EZ	56530	
273.00			309.6	300.6	-50.4	-50.4	☑	Reflex EZ	56555	
276.00			309.7	300.7	-50.3	-50.3	☑	Reflex EZ	56577	
279.00			309.6	300.6	-50.3	-50.3	☑	Reflex EZ	56451	
285.00			309.6	300.6	-50.2	-50.2	☑	Reflex EZ	56500	
288.00			309.4	300.4	-50.2	-50.2	☑	Reflex EZ	56568	
291.00			309.8	300.8	-50.3	-50.3	☑	Reflex EZ	56660	
294.00			309.5	300.5	-50.2	-50.2	☑	Reflex EZ	56551	
297.00			309.6	300.6	-50.3	-50.3	☑	Reflex EZ	56536	
300.00			309.4	300.4	-50.3	-50.3	☑	Reflex EZ	56547	
303.00			309.5	300.5	-50.2	-50.2	☑	Reflex EZ	56562	
306.00			309.4	300.4	-50.3	-50.3	☑	Reflex EZ	56557	
309.00			308.7	299.7	-50.3	-50.3	☑	Reflex EZ	56454	
312.00			309.1	300.1	-50.2	-50.2	☑	Reflex EZ	56221	
315.00			308.6	299.6	-50.3	-50.3	☑	Reflex EZ	56216	
318.00			308.9	299.9	-50.3	-50.3	☑	Reflex EZ	56406	
321.00			308.3	299.3	-50.3	-50.3	☑	Reflex EZ	56294	
327.00			309.4	300.4	-50.2	-50.2	☑	Reflex EZ	56414	
330.00			309.7	300.7	-50.2	-50.2	☑	Reflex EZ	56536	
333.00			309.2	300.2	-50.2	-50.2	☑	Reflex EZ	56552	
336.00			309.8	300.8	-50.2	-50.2	☑	Reflex EZ	56593	
339.00			309.7	300.7	-50.2	-50.2	☑	Reflex EZ	56549	
342.00			309.5	300.5	-50.1	-50.1	☑	Reflex EZ	56553	
348.00			309.4	300.4	-50.1	-50.1	☑	Reflex EZ	56572	
351.00			308.8	299.8	-50	-50	☑	Reflex EZ	56309	
354.00			309.9	300.9	-50.1	-50.1	☑	Reflex EZ	56861	
357.00			310	301	-49.9	-49.9	☑	Reflex EZ	56677	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
360.00			309.4	300.4	-50	-50	☑	Reflex EZ	56571	
363.00			310.9	301.9	-49.9	-49.9	☑	Reflex EZ	56473	
366.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	56534	
369.00			309.1	300.1	-50	-50	☑	Reflex EZ	56624	
375.00			310.5	301.5	-49.8	-49.8	☑	Reflex EZ	56070	
384.00			310.5	301.5	-49.9	-49.9	☑	Reflex EZ	56595	
387.00			309.8	300.8	-50	-50	☑	Reflex EZ	56456	
390.00			309.2	300.2	-50.1	-50.1	☑	Reflex EZ	56555	
393.00			310.9	301.9	-50	-50	☑	Reflex EZ	56365	
399.00			309.2	300.2	-49.9	-49.9	☑	Reflex EZ	56002	
402.00			309.3	300.3	-50	-50	☑	Reflex EZ	56298	
405.00			309.6	300.6	-50.1	-50.1	☑	Reflex EZ	56328	
408.00			309.5	300.5	-49.9	-49.9	☑	Reflex EZ	56415	
411.00			310.8	301.8	-49.9	-49.9	☑	Reflex EZ	56193	
414.00			310.9	301.9	-49.8	-49.8	☑	Reflex EZ	56035	
420.00			308.6	299.6	-50	-50	☑	Reflex EZ	56490	
423.00			309.9	300.9	-49.9	-49.9	☑	Reflex EZ	56508	
426.00			311.2	302.2	-49.9	-49.9	☑	Reflex EZ	56486	
429.00			308.7	299.7	-49.9	-49.9	☑	Reflex EZ	56311	
432.00			309.6	300.6	-49.9	-49.9	☑	Reflex EZ	56639	
435.00			310.3	301.3	-49.8	-49.8	☑	Reflex EZ	56682	
438.00			311.6	302.6	-49.7	-49.7	☑	Reflex EZ	56617	
441.00			311.5	302.5	-49.7	-49.7	☑	Reflex EZ	56617	
444.00			310.7	301.7	-49.6	-49.6	☑	Reflex EZ	56504	
447.00			309.8	300.8	-49.9	-49.9	☑	Reflex EZ	56665	
450.00			311.6	302.6	-49.6	-49.6	☑	Reflex EZ	56544	
453.00			309.8	300.8	-49.7	-49.7	☑	Reflex EZ	56585	
456.00			309.5	300.5	-49.7	-49.7	☑	Reflex EZ	56524	
459.00			311.2	302.2	-49.6	-49.6	☑	Reflex EZ	56483	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	62.00	**OB Overburden** Unknown overburden.							
62.00	65.70	**SED Sediment** Mixture of limestone and bioclastic limestone and mudstone. Unit is very strongly fractured and blocky. Lower contact lost.							
65.70	75.10	**SYENOP Syenite with Graphitic Overprinting** Grey to orange to red. Massive and very hard syenite gneiss with weak graphite fracture filling. Unit is weathered in proximity to near surface glacial rebounded sediments and overburden. Red rocks suggest hematization of syenite due to water presence. Lower contact at 7 dca.	Q181885	65.70	67.00	1.30	0.11	0.03	
			Q181886	67.00	68.00	1.00	0.08	0.02	
			Q181887	68.00	69.00	1.00	0.1	0.01	
			Q181888	69.00	70.00	1.00	0.02	0.05	
			Q181889	70.00	71.00	1.00	0.06	0.01	
			Q181891	71.00	72.00	1.00	0.08	0.02	
			Q181890	71.00	72.00	1.00	0.07	0.02	
			Q181892	72.00	73.00	1.00	0.06	0.01	
			Q181893	73.00	74.00	1.00	0.27	0.03	
			Q181894	74.00	75.10	1.10	0.19	0.02	
75.10	76.22	**MD Mafic Dyke** Green and orange to red. Massive and soft to moderately hard. Unit is strongly weathered. Lower contact at 33 dca.	Q181896	75.10	76.22	1.12	0.21	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
76.22	84.35	**SYENOP Syenite with Graphitic Overprinting** Grey to orange to red. Massive and very hard syenite gneiss with weak graphite fracture filling. Unit is weathered in proximity to near surface glacial rebounded sediments and overburden. Red rocks suggest hematization of syenite due to water presence. 83.87 to 84.09 Mafic dyke. Upper Contact 20 dca, Lower Contact 85 dca. Lower contact at 15 dca.	Q181897	76.22	77.00	0.78	0.04	0.04	
			Q181898	77.00	78.00	1.00	0.09	0.06	
			Q181899	78.00	79.00	1.00	0.03	0.01	
			Q181900	79.00	80.00	1.00	0.02	0.01	
			Q181901	80.00	81.00	1.00	0.02	0.01	
			Q181902	81.00	82.00	1.00	0.04	0.01	
			Q181903	82.00	83.00	1.00	0.03	0.05	
			Q181905	83.00	84.35	1.35	0.09	0.09	
84.35	85.75	**MD Mafic Dyke** Green and moderately hard. Massive and fine grained. 85.55 to 85.65m Quartz vein at 15 dca. Lower contact at 19 dca.	Q181906	84.35	85.00	0.65	0.14	0.14	
			Q181907	85.00	85.75	0.75	0.11	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.75	119.75	**SYENOP Syenite with Graphitic Overprinting** Grey to orange to red. Massive and very hard syenite gneiss with weak graphite fracture filling. Unit is weathered in proximity to near surface glacial rebounded sediments and overburden. Red rocks suggest hematization of syenite due to water presence. Unit becomes more competent after 92m. 98.95 to 99.00m Weathered fault at 105 dca. 106.84 to 107.87m Vuggy red weathered fault zone, Upper Contact at 97 dca, Lower Contact at 33 dca. 109.22 to 109.56m Mafic dyke with 20% 1cm calcite veins. Upper Contact at 33 dca, Lower Contact at 41 dca. 114.23 to 114.51m Mafic dyke and fault at 47 dca. Soft. 115.51 to 117.00m Strongly fractured. 119.20 to 119.75m strongly fractured and lower contact grounded.							
			Q181908	85.75	87.00	1.25	0.11	0.03	
			Q181909	87.00	88.00	1.00	0.19	0.03	
			Q181910	88.00	89.00	1.00	0.24	0.05	
			Q181911	88.00	89.00	1.00	0.24	0.05	
			Q181912	89.00	90.00	1.00	0.09	0.06	
			Q181913	90.00	91.00	1.00	0.04	0.05	
			Q181914	91.00	92.00	1.00	0.05	0.06	
			Q181916	92.00	93.00	1.00	0.05	0.12	
			Q181917	93.00	94.00	1.00	0.01	0.05	
			Q181918	94.00	95.00	1.00	0.03	0.06	
			Q181919	95.00	96.00	1.00	0.04	0.05	
			Q181920	96.00	97.00	1.00	0.04	0.04	
			Q181921	97.00	98.00	1.00	0.04	0.03	
			Q181922	98.00	99.00	1.00	0.11	0.04	
			Q181923	99.00	100.00	1.00	0.07	0.04	
			Q181925	100.00	101.00	1.00	0.07	0.05	
			Q181926	101.00	102.00	1.00	0.09	0.05	
			Q181927	102.00	103.00	1.00	0.08	0.05	
			Q181928	103.00	104.00	1.00	0.08	0.05	
			Q181929	104.00	105.00	1.00	0.15	0.12	
			Q181930	105.00	106.00	1.00	0.11	0.11	
			Q181931	105.00	106.00	1.00	0.09	0.11	
			Q181932	106.00	106.84	0.84	0.1	0.13	
			Q181933	106.84	107.87	1.03	0.27	0.04	
			Q181934	107.87	109.00	1.13	0.56	0.02	
			Q181936	109.00	110.00	1.00	0.25	0.07	
			Q181937	110.00	111.00	1.00	0.23	0.1	
			Q181938	111.00	112.00	1.00	0.42	0.11	
			Q181939	112.00	113.00	1.00	0.27	0.09	
			Q181940	113.00	114.00	1.00	0.22	0.12	
			Q181941	114.00	115.00	1.00	0.67	0.06	
			Q181942	115.00	116.00	1.00	0.53	0.09	
			Q181943	116.00	117.00	1.00	1.06	0.12	
			Q181945	117.00	118.00	1.00	0.25	0.16	
			Q181946	118.00	119.00	1.00	0.4	0.21	
			Q181947	119.00	119.75	0.75	0.45	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
119.75	134.00	**GRPBX Graphitic Breccia** Grey with very dark grey to black graphite matrix. 129.73 rusty fault at 65 dca. 130.27 to 130.68 chloritic and graphitic crosscutting core at 0 dca. Lower contact at 65 dca.	Q181948	119.75	121.00	1.25	6.16	0.18	
			Q181949	121.00	122.00	1.00	4.13	0.33	
			Q181951	122.00	123.00	1.00	5.35	0.22	
			Q181950	122.00	123.00	1.00	5.43	0.22	
			Q181952	123.00	124.00	1.00	5.65	0.37	
			Q181953	124.00	125.00	1.00	7.55	0.25	
			Q181954	125.00	126.00	1.00	7.18	0.33	
			Q181956	126.00	127.00	1.00	7.12	0.54	
			Q181957	127.00	128.00	1.00	7.38	0.35	2.6
			Q181958	128.00	129.00	1.00	10	0.24	2.59
			Q181959	129.00	130.00	1.00	9.53	0.32	2.55
			Q181960	130.00	131.00	1.00	6.22	0.24	2.53
			Q181961	131.00	132.00	1.00	4.14	0.39	2.59
			Q181962	132.00	133.00	1.00	5.91	0.3	2.61
			Q181963	133.00	134.00	1.00	3.96	0.03	
134.00	135.75	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Very strongly fractured. Lower contact at 71 dca.	Q181965	134.00	135.00	1.00	0.39	0.02	
			Q181966	135.00	135.75	0.75	0.63	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
135.75	147.00	**GRPBX Graphitic Breccia** Grey with very dark grey to black graphite matrix. Local syenite that is very strongly overprinted. Lower contact at 80 dca.	Q181967	135.75	137.00	1.25	7.16	0.25	
			Q181968	137.00	138.00	1.00	8.92	0.23	
			Q181969	138.00	139.00	1.00	6.44	0.26	
			Q181971	139.00	140.00	1.00	5.77	0.73	
			Q181970	139.00	140.00	1.00	6.93	0.74	
			Q181972	140.00	141.00	1.00	4.75	0.19	
			Q181973	141.00	142.00	1.00	2.02	0.33	
			Q181974	142.00	143.00	1.00	5.37	0.26	
			Q181976	143.00	144.00	1.00	3.1	0.43	
			Q181977	144.00	145.00	1.00	8.14	0.3	
			Q181978	145.00	146.00	1.00	2.82	0.34	
			Q181979	146.00	147.00	1.00	5.29	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
147.00	164.11	**SYENOP Syenite with Graphitic Overprinting** Grey to dark grey with barely any orange tinge. Massive and very hard. Unit is strongly overprinted and fracture filled with graphite. Lack of brecciation. 147.48 to 147.63 Mafic dyke at 52 dca. 153.35 to 153.49 Granite dyke at 69 dca. 160.94 to 161.30 Granite dyke at 66 dca. Lower contact at 121 dca.	Q181980	147.00	148.00	1.00	3.58	0.43	
			Q181981	148.00	149.00	1.00	5.81	0.28	
			Q181982	149.00	150.00	1.00	1.99	0.31	
			Q181983	150.00	151.00	1.00	1.47	0.34	
			Q181985	151.00	152.00	1.00	1.71	0.34	
			Q181986	152.00	153.00	1.00	4.87	0.29	
			Q181987	153.00	154.00	1.00	1.62	0.31	
			Q181988	154.00	155.00	1.00	2.7	0.31	
			Q181989	155.00	156.00	1.00	2.24	0.41	
			Q181991	156.00	157.00	1.00	1.97	0.29	
			Q181990	156.00	157.00	1.00	2.01	0.29	
			Q181992	157.00	158.00	1.00	1.63	0.33	
			Q181993	158.00	159.00	1.00	1.45	0.37	
			Q181994	159.00	160.00	1.00	1.53	0.37	
			Q181996	160.00	160.94	0.94	2.7	0.35	
			Q181997	160.94	162.00	1.06	1.11	0.38	
			Q181998	162.00	163.00	1.00	1.86	0.43	
			Q181999	163.00	164.11	1.11	1.42	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
164.11	229.29	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Unit has area of intense mineralization and strongly overprinted gneiss? Breccia fragments range from mm in size to several centimetres in size. Local syenite does not appear to be separate units but actual boulder size fragments. 201.81 to 201.85 Chlorite biotite dyke at 50 dca. 201.88 to 201.91 biotite chlorite dyke at 50 dca. 203.49 to 203.52 chlorite biotite dyke at 47 dca. 210.05 to 210.45 Mafic dyke, Upper Contact at 61 dca, Lower Contact at 29 dca. 210.45 to 211.50 Overprinted syenite gneiss at 41 dca. Lower contact at 61 dca.	Q182000	164.11	165.00	0.89	5.47	0.27	
			Q182001	165.00	166.00	1.00	3.69	0.56	
			Q182002	166.00	167.00	1.00	4.71	0.22	
			Q182003	167.00	168.00	1.00	2.98	0.44	
			Q182005	168.00	169.00	1.00	0.62	0.28	2.64
			Q182006	169.00	170.00	1.00	4.57	0.42	2.61
			Q182007	170.00	171.00	1.00	6.51	0.27	2.6
			Q182008	171.00	172.00	1.00	3	0.38	2.63
			Q182009	172.00	173.00	1.00	3.92	0.37	2.62
			Q182011	173.00	174.00	1.00	3.3	0.34	
			Q182010	173.00	174.00	1.00	3.45	0.33	
			Q182012	174.00	175.00	1.00	6.63	0.32	
			Q182013	175.00	176.00	1.00	5.84	0.29	
			Q182014	176.00	177.00	1.00	5.08	0.68	
			Q182016	177.00	178.00	1.00	4.35	0.34	
			Q182017	178.00	179.00	1.00	6.51	0.43	
			Q182018	179.00	180.00	1.00	5.08	0.45	
			Q182019	180.00	181.00	1.00	2.43	0.37	
			Q182020	181.00	182.00	1.00	2.2	0.17	
			Q182021	182.00	183.00	1.00	6.08	0.33	
			Q182022	183.00	184.00	1.00	5.04	0.35	
			Q182023	184.00	185.00	1.00	2.25	0.27	
			Q182025	185.00	186.00	1.00	3.66	0.3	
			Q182026	186.00	187.00	1.00	0.31	0.08	
			Q182027	187.00	188.00	1.00	3.53	0.27	
			Q182028	188.00	189.00	1.00	1.66	0.38	
			Q182029	189.00	190.00	1.00	1.1	0.36	
			Q182031	190.00	191.00	1.00	3.62	0.25	
			Q182030	190.00	191.00	1.00	3.54	0.11	
			Q182032	191.00	192.00	1.00	4.97	0.19	
			Q182033	192.00	193.00	1.00	2.01	0.24	
			Q182034	193.00	194.00	1.00	1.1	0.22	
			Q182036	194.00	195.00	1.00	1.18	0.15	
			Q182037	195.00	196.00	1.00	2.02	0.2	
			Q182038	196.00	197.00	1.00	3.43	0.16	
			Q182039	197.00	198.00	1.00	3.73	0.28	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q182040	198.00	199.00	1.00	1.3	0.13	
		Q182041	199.00	200.00	1.00	2.08	0.22	
		Q182042	200.00	201.00	1.00	3.36	0.28	
		Q182043	201.00	202.00	1.00	1.52	0.13	
		Q182045	202.00	203.00	1.00	0.73	0.16	
		Q182046	203.00	204.00	1.00	0.96	0.12	
		Q182047	204.00	205.00	1.00	1.89	0.16	
		Q182048	205.00	206.00	1.00	4.42	0.16	
		Q182049	206.00	207.00	1.00	1.87	0.1	
		Q182051	207.00	208.00	1.00	3.84	0.1	
		Q182050	207.00	208.00	1.00	3.48	0.08	
		Q182052	208.00	209.00	1.00	1.95	0.2	
		Q182053	209.00	210.05	1.05	3.35	0.4	
		Q182054	210.05	210.45	0.40	0.24	0.18	
		Q182056	210.45	211.50	1.05	0.2	0.13	
		Q182057	211.50	212.00	0.50	2.98	0.28	
		Q182058	212.00	213.00	1.00	4.52	0.27	
		Q182059	213.00	214.00	1.00	3.99	0.34	
		Q182060	214.00	215.00	1.00	3.1	0.15	
		Q182061	215.00	216.00	1.00	2.69	0.07	
		Q182062	216.00	217.00	1.00	1.66	0.47	
		Q182063	217.00	218.00	1.00	2.62	0.25	
		Q182065	218.00	219.00	1.00	3.81	0.3	
		Q182066	219.00	220.00	1.00	3.07	0.19	
		Q182067	220.00	221.00	1.00	0.46	0.11	
		Q182068	221.00	222.00	1.00	1.03	0.2	
		Q182069	222.00	223.00	1.00	1.86	0.19	
		Q182071	223.00	224.00	1.00	1.08	0.04	
		Q182070	223.00	224.00	1.00	1.3	0.05	
		Q182072	224.00	225.00	1.00	0.15	0.05	
		Q182073	225.00	226.00	1.00	1.07	0.25	
		Q182074	226.00	227.00	1.00	1.76	0.29	
		Q182076	227.00	228.00	1.00	2.16	0.1	
		Q182077	228.00	229.00	1.00	1.27	0.12	
		Q182078	229.00	229.29	0.29	2.17	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
229.29	231.48	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss with weak to moderate graphite fracture filling and overprinting.	Q182079	229.29	230.00	0.71	0.13	0.06	
			Q182080	230.00	231.00	1.00	0.03	0.04	
			Q182081	231.00	231.48	0.48	0.07	0.1	
231.48	238.73	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Unit has area of intense mineralization and strongly overprinted gneiss?	Q182082	231.48	232.00	0.52	5.83	0.18	
			Q182083	232.00	233.00	1.00	2.85	0.32	
			Q182085	233.00	234.00	1.00	1.8	0.16	
			Q182086	234.00	235.00	1.00	2.49	0.41	
			Q182087	235.00	236.00	1.00	1.72	0.2	
			Q182088	236.00	237.00	1.00	1.96	0.21	
			Q182089	237.00	238.00	1.00	1.97	0.1	
			Q182091	238.00	238.73	0.73	1.74	0.05	
			Q182090	238.00	238.73	0.73	1.73	0.06	
238.73	243.26	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss with weak to moderate graphite fracture filling and overprinting.	Q182092	238.73	240.00	1.27	0.24	0.11	
			Q182093	240.00	241.00	1.00	0.43	0.07	
			Q182094	241.00	242.00	1.00	0.04	0.06	
			Q182096	242.00	243.26	1.26	0.93	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
243.26	247.00	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Unit has area of intense mineralization and strongly overprinted gneiss? 244.21 to 244.22 Mafic dyke at 85 dca. 244.22 to 244.87 Syenite gneiss, Lower Contact at 72 244.87 to 245.16 Mafic dyke, Lower Contact at 59 dca. Lower contact at 45 dca.	Q182097	243.26	244.22	0.96	1.31	0.15	
			Q182098	244.22	245.16	0.94	0.05	0.07	
			Q182099	245.16	246.00	0.84	1.62	0.18	
			Q182100	246.00	247.00	1.00	0.47	0.07	
247.00	251.05	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss with weak to moderate graphite fracture filling and overprinting. Lower contact at 81 dca.	Q182101	247.00	248.00	1.00	0.14	0.03	
			Q182102	248.00	249.00	1.00	0.28	0.08	
			Q182103	249.00	250.00	1.00	0.15	0.09	
			Q182105	250.00	251.05	1.05	0.12	0.02	
251.05	255.30	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Unit has area of intense mineralization and strongly overprinted gneiss? Lower contact at 78 dca.	Q182106	251.05	252.00	0.95	3.04	0.05	
			Q182107	252.00	253.00	1.00	2.3	0.21	
			Q182108	253.00	254.00	1.00	4.71	0.19	
			Q182109	254.00	255.30	1.30	2.02	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
255.30	260.72	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss with weak to moderate graphite fracture filling and overprinting. Lower contact at 60 dca.	Q182111	255.30	256.00	0.70	0.33	0.11	
			Q182110	255.30	256.00	0.70	0.33	0.09	
			Q182112	256.00	257.00	1.00	0.28	0.12	
			Q182113	257.00	258.00	1.00	0.2	0.08	
			Q182114	258.00	259.00	1.00	0.47	0.15	
			Q182116	259.00	260.00	1.00	0.14	0.12	
			Q182117	260.00	260.72	0.72	0.38	0.23	
260.72	273.69	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Unit has area of intense mineralization and strongly overprinted gneiss? Lower contact at 47 dca.	Q182118	260.72	262.00	1.28	1.14	0.45	
			Q182119	262.00	263.00	1.00	0.37	0.18	
			Q182120	263.00	264.00	1.00	0.73	0.21	
			Q182121	264.00	265.00	1.00	1.24	0.06	
			Q182122	265.00	266.00	1.00	1.82	0.18	
			Q182123	266.00	267.00	1.00	1.96	0.37	
			Q182125	267.00	268.00	1.00	3.02	0.33	2.63
			Q182126	268.00	269.00	1.00	2.32	0.26	2.6
			Q182127	269.00	270.00	1.00	1.34	0.43	2.68
			Q182128	270.00	271.00	1.00	1.4	0.49	2.69
			Q182129	271.00	272.00	1.00	2.15	0.23	2.61
			Q182131	272.00	273.00	1.00	1.85	0.19	
			Q182130	272.00	273.00	1.00	1.63	0.25	
			Q182132	273.00	273.69	0.69	1.1	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
273.69 -	278.79	**SYENSL Syenite Sill (unmineralized)** Light green and medium grained. Massive and hard. 278.35 to 278.37 Chill margin at 70 dca. 278.37 to 278.79 Mafic porphyry. Large phenocrysts? Of dark green crystals. Lower contact very irregular at 55 dca.	Q182133	273.69	275.00	1.31	0.03	0.02	
			Q182134	275.00	276.00	1.00	0.04	0.04	
			Q182136	276.00	277.00	1.00	0.05	0.01	
			Q182137	277.00	278.35	1.35	0.03	0.02	
			Q182138	278.35	278.79	0.44	0.06	0.51	
278.79 -	286.61	**SYENOP Syenite with Graphitic Overprinting** Grey Massive and very hard. Unit is well mineralized and has numerous fracture filling graphite seams but lacks brecciation. Lower contact at 75 dca.	Q182139	278.79	280.00	1.21	0.98	0.9	
			Q182140	280.00	281.00	1.00	0.59	0.83	
			Q182141	281.00	282.00	1.00	0.94	0.26	
			Q182142	282.00	283.00	1.00	0.74	0.1	
			Q182143	283.00	284.00	1.00	0.63	0.12	
			Q182145	284.00	285.00	1.00	0.73	0.18	
			Q182146	285.00	286.00	1.00	0.16	0.17	
			Q182147	286.00	286.61	0.61	0.13	0.11	
286.61 -	287.64	**MD Mafic Dyke** 286.61 to 287.06 Mafic dyke Green fine grained massive and hard (typical), Lower contact at 71 dca. 287.06 to 287.64 Mafic porphyry. Green with very dark green phenocrysts and quartz? Phenocrysts. Fine to medium grained. Massive and hard similar to unit at 278m. Lower contact at 45 dca.	Q182148	286.61	287.06	0.45	0.17	0.05	
			Q182149	287.06	287.64	0.58	0.1	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
287.64	298.28	**GRPBX Graphitic Breccia** Dark grey to very dark grey with very dark grey to black graphite matrix and overprinting. Very hard. Lower contact sharply cut at 63 dca with 5mm felsic dykelet crosscutting lower unit and breccia.	Q182151	287.64	289.00	1.36	3.69	0.33	
			Q182150	287.64	289.00	1.36	3.49	0.32	
			Q182152	289.00	290.00	1.00	2.54	0.2	
			Q182153	290.00	291.00	1.00	6.68	0.21	
			Q182154	291.00	292.00	1.00	5.08	0.22	
			Q182156	292.00	293.00	1.00	5.07	0.08	
			Q182157	293.00	294.00	1.00	2.74	0.4	
			Q182158	294.00	295.00	1.00	3.08	0.2	
			Q182159	295.00	296.00	1.00	2.6	0.11	
			Q182160	296.00	297.00	1.00	1.51	0.12	
			Q182161	297.00	298.28	1.28	2.33	0.27	
298.28	302.97	**FDOP Felsic Dyke with Graphitic Overprinting** Black and aphanitic at start. Massive and very hard. Unit has graphite overprinting and as it goes downhole small phenocrysts and or brecciation begins until unit changes into graphite breccia at 302m. Lower contact at 125 dca.	Q182162	298.28	299.00	0.72	11.8	0.14	
			Q182163	299.00	300.00	1.00	10.2	0.12	
			Q182165	300.00	301.00	1.00	7.71	0.16	
			Q182166	301.00	302.00	1.00	4.81	0.21	
			Q182167	302.00	302.97	0.97	2.75	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
302.97	321.69	**SYENSL Syenite Sill (unmineralized)** Green to light green. Massive and hard. Unit ranges from fine to medium grained. Previously logged as an intermediate intrusive. Petrography indicates that the rock type is olivine-aegirine syenite. 302.97 to 303.24 Mafic dyke Lower contact at 45 dca.	Q182168	302.97	303.24	0.27	0.1	0.28	
			Q182169	303.24	304.00	0.76	0.07	0.18	
			Q182170	304.00	305.00	1.00	0.01	0.05	
			Q182171	304.00	305.00	1.00	0.02	0.04	
			Q182172	305.00	306.00	1.00	0.01	0.01	
			Q182173	306.00	307.50	1.50	0.06	0.01	
			Q182174	307.50	309.00	1.50	0.01	0.01	
			Q182176	309.00	310.50	1.50	0.14	0.02	
			Q182177	310.50	312.00	1.50	0.11	0.03	
			Q182178	312.00	313.50	1.50	0.02	0.02	
			Q182179	313.50	315.00	1.50	0.08	0.03	
			Q182180	315.00	316.50	1.50	0.01	0.02	
			Q182181	316.50	318.00	1.50	0.04	0.02	
			Q182182	318.00	319.50	1.50	0.03	0.02	
			Q182183	319.50	321.00	1.50	0.01	0.07	
			Q182185	321.00	321.69	0.69	0.02	0.08	
321.69	326.39	**SYEN Syenite** Medium grey to light pink, medium grained syenite. Upper contact sharp at 53 dca. No visible graphite. Lower contact sharp at 45 dca.	Q182186	321.69	322.80	1.11	0.05	0.16	
			Q182187	322.80	324.00	1.20	0.16	0.03	
			Q182188	324.00	325.20	1.20	0.23	0.23	
			Q182189	325.20	326.39	1.19	0.18	0.18	
326.39	329.99	**DIOR Diorite** Light to medium gray, medium grained, massive diorite. Coarse, feldspathic, pink xenoliths up to 3cm. Lower contact sharp at 57 dca.	Q182190	326.39	327.50	1.11	0.09	0.06	
			Q182192	327.50	328.70	1.20	0.02	0.07	
			Q182193	328.70	329.99	1.29	0.07	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
329.99	350.33	**SYEN Syenite** Light grey to pinkish-grey, massive coarse syenite. Very weak graphite overprinting only at 342.5 as fracture filling hairline graphite veinlets.	Q182194	329.99	331.00	1.01	0.12	0.08	
			Q182196	331.00	332.20	1.20	0.62	0.14	
			Q182197	332.20	333.27	1.07	0.24	0.19	
			Q182198	333.27	333.66	0.39	0.1	0.04	
			Q182199	333.66	334.40	0.74	0.22	0.15	
			Q182200	334.40	335.35	0.95	0.09	0.06	
			Q182201	335.35	336.30	0.95	0.08	0.1	
			Q182202	336.30	337.20	0.90	0.08	0.07	
			Q182203	337.20	338.10	0.90	0.06	0.08	
			Q182205	338.10	339.00	0.90	0.05	0.1	
			Q182206	339.00	340.00	1.00	0.11	0.14	
			Q182207	340.00	341.00	1.00	0.1	0.15	
			Q182208	341.00	342.00	1.00	0.18	0.07	
			Q182209	342.00	343.00	1.00	0.74	0.14	
			Q182210	343.00	344.00	1.00	0.09	0.38	
			Q182212	344.00	345.00	1.00	0.17	0.08	
			Q182213	345.00	346.00	1.00	0.14	0.1	
			Q182214	346.00	347.00	1.00	0.2	0.13	
			Q182216	347.00	348.00	1.00	0.09	0.12	
			Q182217	348.00	349.15	1.15	0.08	0.11	
			Q182218	349.15	350.33	1.18	0.15	0.15	
350.33	352.13	**ID Intermediate Dyke** Dark grey, massive, feldspar porphyry. Upper contact sharp at 53 dca. Milky white, subrounded to subhedral 1-4mm feldspar phenocrysts in a dark gray, fine grained matrix. Hard. Lower contact sharp at 59 dca.	Q182219	350.33	351.20	0.87	0.07	0.18	
			Q182220	351.20	352.13	0.93	0.08	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
352.13	362.70	**SYEN Syenite** Light grey to pinkish-grey, massive medium grained syenite. No visible graphite.	Q182221	352.13	353.00	0.87	0.32	0.08	
			Q182222	353.00	354.25	1.25	0.18	0.13	
			Q182223	354.25	355.11	0.86	0.13	0.2	
			Q182225	355.11	356.00	0.89	0.29	0.17	
			Q182226	356.00	357.00	1.00	0.38	0.2	
			Q182227	357.00	358.00	1.00	0.61	0.19	
			Q182228	358.00	359.00	1.00	0.23	0.1	
			Q182229	359.00	360.00	1.00	0.11	0.17	
			Q182230	360.00	361.00	1.00	0.15	0.15	
			Q182232	361.00	362.00	1.00	0.34	0.12	
			Q182233	362.00	362.70	0.70	0.42	0.19	
362.70	370.50	**SYENOP Syenite with Graphitic Overprinting** Medium grey to locally dark grey, medium grained, massive syenite. Locally graphite overprinting from 362.7 to 366.3m. Moderate graphite content as fracture filling veinlets from 362.7 to 364.55. Weak graphite overprint from 364.55 to 366.3. At 370.25m, dark green, weakly conductive 10cm dyke at 40 dca. Lower contact of this unit at 55 dca.	Q182234	362.70	363.50	0.80	6.15	0.2	
			Q182236	363.50	364.55	1.05	6.96	0.46	
			Q182237	364.55	365.50	0.95	1.32	0.27	
			Q182238	365.50	366.30	0.80	0.91	0.21	
			Q182239	366.30	367.50	1.20	1.07	0.25	
			Q182240	367.50	368.50	1.00	0.29	0.24	
			Q182241	368.50	369.50	1.00	0.27	0.24	
			Q182242	369.50	370.50	1.00	0.19	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
370.50	433.35	**SYENSL Syenite Sill (unmineralized)** Medium to dark grey, to greenish-grey massive, medium to coarse grained, "gabbroic texture". Hard.	Q182243	370.50	372.00	1.50	0.01	0.07	
			Q182245	372.00	373.50	1.50	0.02	0.09	
			Q182246	373.50	375.00	1.50	0.01	0.03	
			Q182247	375.00	376.50	1.50	0.02	0.04	
			Q182248	376.50	378.00	1.50	0.08	0.04	
			Q182249	378.00	379.50	1.50	0.01	0.04	
			Q182250	379.50	381.00	1.50	0.01	0.04	
			Q182252	381.00	382.50	1.50	0.03	0.04	
			Q182253	382.50	384.00	1.50	0.01	0.03	
			Q182254	384.00	385.50	1.50	0.04	0.03	
			Q182256	385.50	387.00	1.50	0.02	0.1	
			Q182257	387.00	388.50	1.50	0.02	0.15	
			Q182258	388.50	390.00	1.50	0.05	0.03	
			Q182259	390.00	391.50	1.50	0.05	0.04	
			Q182260	391.50	393.00	1.50	0.03	0.03	
			Q182261	393.00	394.50	1.50	0.01	0.03	
			Q182262	394.50	395.30	0.80	0.04	0.03	
			Q182263	395.30	396.80	1.50	0.03	0.34	
			Q182265	396.80	398.00	1.20	0.01	0.05	
			Q182266	398.00	399.50	1.50	0.01	0.02	
			Q182267	399.50	401.00	1.50	0.01	0.03	
			Q182268	401.00	402.50	1.50	0.01	0.05	
			Q182269	402.50	403.50	1.00	0.01	0.02	
			Q182270	403.50	405.00	1.50	0.01	0.02	
			Q182272	405.00	406.50	1.50	0.04	0.18	
			Q182273	406.50	408.00	1.50	0.02	0.01	
			Q182274	408.00	409.50	1.50	0.01	0.03	
			Q182276	409.50	411.00	1.50	0.02	0.02	
			Q182277	411.00	412.50	1.50	0.01	0.02	
			Q182278	412.50	414.00	1.50	0.01	0.03	
			Q182279	414.00	415.50	1.50	0.01	0.06	
			Q182280	415.50	417.00	1.50	0.01	0.16	
			Q182281	417.00	418.50	1.50	0.01	0.07	
			Q182282	418.50	420.00	1.50	0.01	0.04	
			Q182283	420.00	421.50	1.50	0.01	0.06	
			Q182285	421.50	423.00	1.50	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q182286	423.00	424.50	1.50	0.02	0.17	
			Q182287	424.50	426.00	1.50	0.02	0.08	
			Q182288	426.00	427.50	1.50	0.05	0.04	
			Q182289	427.50	429.00	1.50	0.02	0.09	
			Q182290	429.00	430.50	1.50	0.02	0.02	
			Q182292	430.50	432.00	1.50	0.03	0.07	
			Q182293	432.00	433.35	1.35	0.03	0.08	
433.35	438.00	**SYEN Syenite**							
		Light pink, medium to coarse grained, massive syenite. No visible graphite.	Q182294	433.35	434.50	1.15	0.09	0.16	
			Q182296	434.50	435.50	1.00	0.06	0.07	
			Q182297	435.50	436.50	1.00	0.04	0.14	
			Q182298	436.50	438.00	1.50	0.05	0.15	
438.00	442.00	**DIOR Diorite**							
		Medium grey, to light greenish-grey, fine grained massive diorite.	Q182299	438.00	439.00	1.00	0.05	0.11	
			Q182300	439.00	440.00	1.00	0.11	0.07	
			Q182301	440.00	440.86	0.86	0.03	0.07	
			Q182302	440.86	442.00	1.14	0.03	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
442.00	455.82	**SYEN Syenite** Medium grey to pinkish-grey, massive, medium grained syenite. No visible graphite.	Q182303	442.00	443.00	1.00	0.2	0.25	
			Q182305	443.00	444.00	1.00	0.25	0.23	
			Q182306	444.00	445.00	1.00	0.18	0.15	
			Q182307	445.00	446.00	1.00	0.43	0.19	
			Q182308	446.00	447.00	1.00	0.09	0.17	
			Q182309	447.00	448.00	1.00	0.19	0.18	
			Q182310	448.00	449.00	1.00	0.09	0.19	
			Q182312	449.00	450.00	1.00	0.09	0.14	
			Q182313	450.00	451.00	1.00	0.08	0.19	
			Q182314	451.00	452.00	1.00	0.18	0.2	
			Q182316	452.00	453.00	1.00	0.24	0.18	
			Q182317	453.00	454.00	1.00	0.37	0.28	
			Q182318	454.00	455.00	1.00	0.44	0.17	
			Q182319	455.00	455.82	0.82	0.08	0.08	
455.82	458.10	**SYENSL Syenite Sill (unmineralized)** Medium grey, fine grained, massive, "gabbroic texture". Upper contact sharp at 75 dca. Lower contact at 52 dca.	Q182320	455.82	457.00	1.18	0.03	0.31	
			Q182321	457.00	458.10	1.10	0.02	0.11	
458.10	459.00	**SYEN Syenite** Light grey to light pink, medium grained, massive syenite. EOH 459.0m	Q182322	458.10	459.00	0.90	0.01	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	540.00	27/07/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545803.6	682681.7			Reflex APS		02/08/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	125.00	229.60		-50.10	Chibougamau Diamond Drilling		03/08/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	574	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test west pipe from northeast.	This hole intersected several well minerlaized breccia intervals starting from 155.62m to 285.16m and further downhole from 338.00m to 495.75m. The thickest intersections range from ~14m to 35m. The assays from 123.00m to 320.23m averaged 1.63% Cg over 197.23m; within this intersection a higher grade graphite zone from 155.62m to 306.00m averaged 2.09% Cg over 150.38m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
66.00			238.2	229.2	-51	-51	☑	Reflex EZ	56749	
69.00			238.4	229.4	-50.8	-50.8	☑	Reflex EZ	56449	
72.00			237.3	228.3	-50.9	-50.9	☑	Reflex EZ	56453	
75.00			237.7	228.7	-50.8	-50.8	☑	Reflex EZ	56400	
78.00			238.5	229.5	-50.7	-50.7	☑	Reflex EZ	56356	
81.00			238.1	229.1	-50.9	-50.9	☑	Reflex EZ	56431	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			238.2	229.2	-50.9	-50.9	☑	Reflex EZ	56408	
87.00			238.7	229.7	-50.8	-50.8	☑	Reflex EZ	56435	
90.00			237.6	228.6	-50.8	-50.8	☑	Reflex EZ	56440	
93.00			238.7	229.7	-50.7	-50.7	☑	Reflex EZ	56310	
96.00			238	229	-50.9	-50.9	☑	Reflex EZ	56371	
99.00			238.1	229.1	-50.7	-50.7	☑	Reflex EZ	56314	
102.00			238.7	229.7	-50.7	-50.7	☑	Reflex EZ	56294	
105.00			239.4	230.4	-50.7	-50.7	☑	Reflex EZ	56362	
108.00			239	230	-50.6	-50.6	☑	Reflex EZ	56386	
111.00			238.3	229.3	-50.7	-50.7	☑	Reflex EZ	56353	
114.00			238.8	229.8	-50.7	-50.7	☑	Reflex EZ	56377	
117.00			237.3	228.3	-50.9	-50.9	☑	Reflex EZ	56405	
120.00			238.4	229.4	-50.7	-50.7	☑	Reflex EZ	56343	
123.00			238.1	229.1	-50.8	-50.8	☑	Reflex EZ	56374	
126.00			237.2	228.2	-50.9	-50.9	☑	Reflex EZ	56404	
129.00			237.7	228.7	-50.7	-50.7	☑	Reflex EZ	56377	
132.00			239.1	230.1	-50.6	-50.6	☑	Reflex EZ	56340	
135.00			237.6	228.6	-50.9	-50.9	☑	Reflex EZ	56418	
138.00			237.6	228.6	-50.9	-50.9	☑	Reflex EZ	56344	
141.00			239.1	230.1	-50.8	-50.8	☑	Reflex EZ	56395	
144.00			237.5	228.5	-50.8	-50.8	☑	Reflex EZ	56357	
147.00			239.2	230.2	-50.6	-50.6	☑	Reflex EZ	56367	
150.00			238.9	229.9	-50.6	-50.6	☑	Reflex EZ	56317	
156.00			239.6	230.6	-50.6	-50.6	☑	Reflex EZ	56157	
159.00			239.3	230.3	-50.6	-50.6	☑	Reflex EZ	56356	
162.00			237.3	228.3	-50.7	-50.7	☑	Reflex EZ	56371	
165.00			238.7	229.7	-50.6	-50.6	☑	Reflex EZ	56245	
168.00			239.2	230.2	-50.6	-50.6	☑	Reflex EZ	56349	
171.00			239	230	-50.6	-50.6	☑	Reflex EZ	56372	
174.00			238.8	229.8	-50.7	-50.7	☑	Reflex EZ	56383	
177.00			239	230	-50.6	-50.6	☑	Reflex EZ	56359	
180.00			237.3	228.3	-50.8	-50.8	☑	Reflex EZ	56374	
183.00			238.1	229.1	-50.6	-50.6	☑	Reflex EZ	56376	
186.00			238.9	229.9	-50.6	-50.6	☑	Reflex EZ	56326	
189.00			237	228	-50.7	-50.7	☑	Reflex EZ	56392	
195.00			238.6	229.6	-50.6	-50.6	☑	Reflex EZ	56400	
198.00			238.7	229.7	-50.5	-50.5	☑	Reflex EZ	56316	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			236.9	227.9	-50.6	-50.6	☑	Reflex EZ	56451	
207.00			236.9	227.9	-50.7	-50.7	☑	Reflex EZ	56396	
210.00			237	228	-51	-51	☑	Reflex EZ	56326	
213.00			239.3	230.3	-50.4	-50.4	☑	Reflex EZ	56295	
216.00			238.5	229.5	-50.4	-50.4	☑	Reflex EZ	56261	
219.00			239	230	-50.4	-50.4	☑	Reflex EZ	56363	
222.00			239	230	-50.4	-50.4	☑	Reflex EZ	56348	
225.00			238	229	-50.5	-50.5	☑	Reflex EZ	56361	
228.00			237.1	228.1	-50.5	-50.5	☑	Reflex EZ	56389	
231.00			237.2	228.2	-50.6	-50.6	☑	Reflex EZ	56192	
234.00			239.1	230.1	-50.3	-50.3	☑	Reflex EZ	56311	
237.00			239	230	-50.4	-50.4	☑	Reflex EZ	56314	
240.00			239.1	230.1	-50.4	-50.4	☑	Reflex EZ	56350	
243.00			238.9	229.9	-50.4	-50.4	☑	Reflex EZ	56339	
246.00			236.9	227.9	-50.7	-50.7	☑	Reflex EZ	56381	
249.00			237.5	228.5	-50.6	-50.6	☑	Reflex EZ	56373	
252.00			238	229	-50.6	-50.6	☑	Reflex EZ	56373	
255.00			238.7	229.7	-50.3	-50.3	☑	Reflex EZ	56342	
258.00			238.8	229.8	-50.4	-50.4	☑	Reflex EZ	56388	
261.00			238.5	229.5	-50.3	-50.3	☑	Reflex EZ	56564	
264.00			238.8	229.8	-50.3	-50.3	☑	Reflex EZ	56383	
267.00			238.6	229.6	-50.2	-50.2	☑	Reflex EZ	56338	
270.00			237	228	-50.3	-50.3	☑	Reflex EZ	56411	
273.00			236.9	227.9	-50.3	-50.3	☑	Reflex EZ	56368	
276.00			238	229	-50.2	-50.2	☑	Reflex EZ	56379	
279.00			238.8	229.8	-50.2	-50.2	☑	Reflex EZ	56346	
282.00			237	228	-50.3	-50.3	☑	Reflex EZ	56446	
285.00			238.9	229.9	-50.2	-50.2	☑	Reflex EZ	56282	
288.00			237.4	228.4	-50.2	-50.2	☑	Reflex EZ	56329	
291.00			236.7	227.7	-50.7	-50.7	☑	Reflex EZ	56438	
294.00			238.9	229.9	-50.2	-50.2	☑	Reflex EZ	56384	
297.00			236.9	227.9	-50.3	-50.3	☑	Reflex EZ	56359	
300.00			236.5	227.5	-50.4	-50.4	☑	Reflex EZ	56422	
303.00			238.9	229.9	-49	-49	☑	Reflex EZ	56088	
306.00			238.8	229.8	-50.2	-50.2	☑	Reflex EZ	56438	
309.00			238.6	229.6	-50.3	-50.3	☑	Reflex EZ	56373	
312.00			237.1	228.1	-50.4	-50.4	☑	Reflex EZ	56319	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
315.00			239.1	230.1	-50.2	-50.2	☑	Reflex EZ	56393	
318.00			238.3	229.3	-50.2	-50.2	☑	Reflex EZ	56199	
321.00			238.7	229.7	-50.2	-50.2	☑	Reflex EZ	56391	
324.00			238	229	-50.4	-50.4	☑	Reflex EZ	56493	
327.00			239.5	230.5	-50.2	-50.2	☑	Reflex EZ	56451	
330.00			238.7	229.7	-50.2	-50.2	☑	Reflex EZ	56291	
333.00			238.1	229.1	-50.3	-50.3	☑	Reflex EZ	56409	
336.00			238.7	229.7	-50.3	-50.3	☑	Reflex EZ	56481	
339.00			236.5	227.5	-50.3	-50.3	☑	Reflex EZ	56278	
342.00			238	229	-50.3	-50.3	☑	Reflex EZ	56154	
345.00			237.4	228.4	-50.3	-50.3	☑	Reflex EZ	56029	
348.00			239.1	230.1	-50.1	-50.1	☑	Reflex EZ	56307	
351.00			238.7	229.7	-50.3	-50.3	☑	Reflex EZ	56358	
354.00			237.7	228.7	-50.5	-50.5	☑	Reflex EZ	56453	
357.00			239.5	230.5	-50.3	-50.3	☑	Reflex EZ	56353	
360.00			239.2	230.2	-50.3	-50.3	☑	Reflex EZ	56171	
363.00			239.3	230.3	-50.3	-50.3	☑	Reflex EZ	56166	
366.00			236.9	227.9	-50.5	-50.5	☑	Reflex EZ	56275	
369.00			237.6	228.6	-50.6	-50.6	☑	Reflex EZ	56213	
372.00			239.2	230.2	-50.3	-50.3	☑	Reflex EZ	56102	
375.00			237.2	228.2	-50.5	-50.5	☑	Reflex EZ	56264	
378.00			238.1	229.1	-50.4	-50.4	☑	Reflex EZ	56164	
381.00			237.9	228.9	-50.5	-50.5	☑	Reflex EZ	56214	
384.00			238.6	229.6	-50.3	-50.3	☑	Reflex EZ	56086	
387.00			237.7	228.7	-50.4	-50.4	☑	Reflex EZ	56331	
390.00			238.4	229.4	-50.3	-50.3	☑	Reflex EZ	56144	
393.00			238	229	-50.4	-50.4	☑	Reflex EZ	56437	
396.00			237.2	228.2	-50.6	-50.6	☑	Reflex EZ	56148	
402.00			239	230	-50.3	-50.3	☑	Reflex EZ	56482	
405.00			237.9	228.9	-50.5	-50.5	☑	Reflex EZ	56255	
408.00			239	230	-50.4	-50.4	☑	Reflex EZ	56245	
411.00			238.7	229.7	-50.3	-50.3	☑	Reflex EZ	56322	
414.00			236.6	227.6	-50.5	-50.5	☑	Reflex EZ	56241	
417.00			237.7	228.7	-50.3	-50.3	☑	Reflex EZ	56623	
420.00			239.2	230.2	-50.3	-50.3	☑	Reflex EZ	56377	
423.00			239.7	230.7	-50.3	-50.3	☑	Reflex EZ	56313	
426.00			237.6	228.6	-50.4	-50.4	☑	Reflex EZ	56424	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
429.00			238.1	229.1	-50.4	-50.4	☑	Reflex EZ	56411	
432.00			238.6	229.6	-50.3	-50.3	☑	Reflex EZ	56379	
435.00			238.3	229.3	-50.3	-50.3	☑	Reflex EZ	56396	
438.00			236.9	227.9	-50.3	-50.3	☑	Reflex EZ	55516	
441.00			239	230	-50.2	-50.2	☑	Reflex EZ	56280	
444.00			239.4	230.4	-50.2	-50.2	☑	Reflex EZ	56182	
447.00			238.3	229.3	-50.4	-50.4	☑	Reflex EZ	56383	
450.00			237.1	228.1	-50.4	-50.4	☑	Reflex EZ	56388	
453.00			239	230	-50.2	-50.2	☑	Reflex EZ	56158	
456.00			238.4	229.4	-50.2	-50.2	☑	Reflex EZ	56391	
459.00			239.4	230.4	-50.2	-50.2	☑	Reflex EZ	56305	
462.00			238.3	229.3	-50.3	-50.3	☑	Reflex EZ	56432	
465.00			238.1	229.1	-50.2	-50.2	☑	Reflex EZ	56379	
468.00			238.6	229.6	-50.2	-50.2	☑	Reflex EZ	56419	
471.00			237.9	228.9	-50.4	-50.4	☑	Reflex EZ	56384	
474.00			238.9	229.9	-50.3	-50.3	☑	Reflex EZ	56392	
477.00			239	230	-50.3	-50.3	☑	Reflex EZ	56286	
480.00			238.6	229.6	-50.4	-50.4	☑	Reflex EZ	56324	
483.00			239.7	230.7	-50.2	-50.2	☑	Reflex EZ	56370	
486.00			239.1	230.1	-50.2	-50.2	☑	Reflex EZ	56328	
489.00			239.1	230.1	-50.2	-50.2	☑	Reflex EZ	56337	
492.00			239.6	230.6	-50.1	-50.1	☑	Reflex EZ	56279	
495.00			240	231	-50.1	-50.1	☑	Reflex EZ	56554	
498.00			237.9	228.9	-50.2	-50.2	☑	Reflex EZ	56434	
501.00			237.6	228.6	-50.2	-50.2	☑	Reflex EZ	56076	
504.00			238	229	-50.2	-50.2	☑	Reflex EZ	56397	
510.00			239.3	230.3	-50.3	-50.3	☑	Reflex EZ	56407	
513.00			239.7	230.7	-50.2	-50.2	☑	Reflex EZ	56338	
516.00			238	229	-50.4	-50.4	☑	Reflex EZ	56390	
519.00			239.6	230.6	-50.1	-50.1	☑	Reflex EZ	56115	
522.00			237.8	228.8	-50.2	-50.2	☑	Reflex EZ	56334	
525.00			236.9	227.9	-50.4	-50.4	☑	Reflex EZ	56364	
528.00			237.8	228.8	-50.2	-50.2	☑	Reflex EZ	56211	
531.00			239.2	230.2	-50.3	-50.3	☑	Reflex EZ	56456	
534.00			238.2	229.2	-50.1	-50.1	☑	Reflex EZ	56190	
537.00			237.9	228.9	-50.3	-50.3	☑	Reflex EZ	56353	
540.00			237.9	228.9	-50.3	-50.3	☑	Reflex EZ	56145	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	62.80	**OB Overburden** 0-60.7 unknown overburden. 60.7-62.8 indurated sand with polymictic pebble sized fragments.							
62.80	65.70	**SED Sediment** White to beige to light grey limestone. Vuggy. Grounded core fragments. Lower contact broken core.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
65.70	- 155.62	**SYENOP Syenite with Graphitic Overprinting** Pinkish grey, medium grained massive syenite. From upper contact to 69.4 paleo-weathered section. Moderate weathering; the core is friable along fractures. From 80.47 to 80.63 greenish-brown mafic dyke at 55 dca. From 82.37 to 82.93 same brownish-green, soft mafic dyke. Both contacts sharp but irregular. 20cm broken core at 83.8m. From 94.02 to 94.21 same brownish-green, mafic dyke at 80 dca. From 108.6 to 108.8 20cm broken core strong fracturing. Weak graphite overprinting as fracture filling veinlets starts from 120.7 to 125m and from 133.6 to 135m.	Q182323	66.00	67.00	1.00	0.09	0.01	
			Q182325	67.00	68.00	1.00	0.1	0.005	
			Q182326	68.00	69.00	1.00	0.11	0.005	
			Q182327	69.00	70.00	1.00	0.19	0.005	
			Q182328	70.00	71.00	1.00	0.13	0.01	
			Q182329	71.00	72.00	1.00	0.01	0.06	
			Q182330	72.00	73.00	1.00	0.07	0.005	
			Q182332	73.00	74.00	1.00	0.08	0.06	
			Q182333	74.00	75.00	1.00	0.06	0.05	
			Q182334	75.00	76.00	1.00	0.1	0.01	
			Q182336	76.00	77.00	1.00	0.07	0.03	
			Q182337	77.00	78.00	1.00	0.07	0.02	
			Q182338	78.00	79.00	1.00	0.05	0.05	
			Q182339	79.00	80.00	1.00	0.03	0.03	
			Q182340	80.00	81.00	1.00	0.13	0.03	
			Q182341	81.00	82.00	1.00	0.07	0.005	
			Q182342	82.00	83.00	1.00	0.16	0.005	
			Q182343	83.00	84.00	1.00	0.14	0.005	
			Q182345	84.00	85.00	1.00	0.08	0.02	
			Q182346	85.00	86.00	1.00	0.02	0.02	
			Q182347	86.00	87.00	1.00	0.11	0.08	
			Q182348	87.00	88.00	1.00	0.03	0.52	
			Q182349	88.00	89.00	1.00	0.03	0.42	
			Q182350	89.00	90.00	1.00	0.04	0.1	
			Q182352	90.00	91.00	1.00	0.04	0.07	
			Q182353	91.00	92.00	1.00	0.03	0.08	
			Q182354	92.00	93.00	1.00	0.17	0.08	
			Q182356	93.00	94.00	1.00	0.05	0.06	
			Q182357	94.00	95.00	1.00	0.2	0.02	
			Q182358	95.00	96.00	1.00	0.13	0.08	
			Q182359	96.00	97.00	1.00	0.07	0.06	
			Q182360	97.00	98.00	1.00	0.22	0.14	
			Q182361	98.00	99.00	1.00	0.08	0.09	
			Q182362	99.00	100.00	1.00	0.07	0.05	
			Q182363	100.00	101.00	1.00	0.2	0.17	
			Q182365	101.00	102.00	1.00	0.11	0.14	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q182366	102.00	103.00	1.00	0.13	0.21	
		Q182367	103.00	104.00	1.00	0.16	0.1	
		Q182368	104.00	105.00	1.00	0.15	0.13	
		Q182369	105.00	106.00	1.00	0.21	0.07	
		Q182370	106.00	107.00	1.00	0.19	0.1	
		Q182372	107.00	108.00	1.00	0.18	0.17	
		Q182373	108.00	109.00	1.00	0.11	0.07	
		Q182374	109.00	110.00	1.00	0.08	0.03	
		Q182376	110.00	111.00	1.00	0.01	0.07	
		Q182377	111.00	112.00	1.00	0.02	0.03	
		Q182378	112.00	113.00	1.00	0.02	0.05	
		Q182379	113.00	114.00	1.00	0.05	0.06	
		Q182380	114.00	115.00	1.00	0.09	0.07	
		Q182381	115.00	116.00	1.00	0.05	0.06	
		Q182382	116.00	117.00	1.00	0.01	0.04	
		Q182383	117.00	118.00	1.00	0.13	0.14	
		Q182385	118.00	119.00	1.00	0.03	0.04	
		Q182386	119.00	120.00	1.00	0.14	0.08	
		Q182387	120.00	121.00	1.00	0.05	0.1	
		Q182388	121.00	122.00	1.00	0.11	0.1	
		Q182389	122.00	123.00	1.00	0.06	0.07	
		Q182390	123.00	124.00	1.00	0.32	0.12	
		Q182392	124.00	125.00	1.00	0.34	0.14	
		Q182393	125.00	126.00	1.00	0.37	0.18	
		Q182394	126.00	127.00	1.00	0.1	0.13	
		Q182396	127.00	128.00	1.00	0.23	0.16	
		Q182397	128.00	129.00	1.00	0.15	0.07	
		Q182398	129.00	130.00	1.00	0.12	0.09	
		Q182399	130.00	131.00	1.00	0.13	0.16	
		Q182400	131.00	132.00	1.00	0.26	0.25	
		Q182401	132.00	133.00	1.00	0.09	0.16	
		Q182402	133.00	134.00	1.00	0.32	0.17	
		Q182403	134.00	135.00	1.00	0.37	0.2	
		Q182405	135.00	136.00	1.00	0.1	0.09	
		Q182406	136.00	137.00	1.00	0.06	0.07	
		Q182407	137.00	138.00	1.00	0.14	0.1	
		Q182408	138.00	139.00	1.00	0.1	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q182409	139.00	140.00	1.00	0.06	0.09	
			Q182410	140.00	141.00	1.00	0.06	0.05	
			Q182412	141.00	142.00	1.00	0.07	0.1	
			Q182413	142.00	143.00	1.00	0.09	0.08	
			Q182414	143.00	144.00	1.00	0.36	0.13	
			Q182416	144.00	145.00	1.00	0.06	0.03	
			Q182417	145.00	146.00	1.00	0.06	0.05	
			Q182418	146.00	147.00	1.00	0.1	0.06	
			Q182419	147.00	148.00	1.00	0.08	0.16	
			Q182420	148.00	149.00	1.00	0.06	0.07	
			Q182421	149.00	150.00	1.00	0.06	0.09	
			Q182422	150.00	151.00	1.00	0.08	0.09	
			Q182423	151.00	152.00	1.00	0.03	0.05	
			Q182425	152.00	153.00	1.00	0.04	0.03	
			Q182426	153.00	153.90	0.90	0.01	0.07	
			Q182427	153.90	154.80	0.90	0.01	0.09	
			Q182428	154.80	155.62	0.82	0.07	0.13	
155.62	165.28	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite with angular syenite fragments in graphite flooded matrix. Good graphite content. Fragments range in size from <1 to >5cm. Few small 1-2cm biotite rich subrounded mafic fragments. Upper contact at 50 dca; Lower contact at 55 dca.	Q182429	155.62	156.45	0.83	6.19	0.26	
			Q182430	156.45	157.30	0.85	1.07	0.23	
			Q182432	157.30	158.20	0.90	0.32	0.18	
			Q182433	158.20	159.10	0.90	3.39	0.16	
			Q182434	159.10	160.00	0.90	4.51	0.35	
			Q182436	160.00	161.00	1.00	6.91	0.29	
			Q182437	161.00	162.00	1.00	5.2	0.31	
			Q182438	162.00	163.00	1.00	3.75	0.24	
			Q182439	163.00	164.10	1.10	0.67	0.14	
			Q182440	164.10	165.28	1.18	0.88	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
165.28 -	185.60	**SYENOP Syenite with Graphitic Overprinting** Medium grey with reddish-pink patches, medium grained syenite. Weak graphite overprinting at the top of this unit from Upper contact to 179m as isolated fracture filling graphite veinlets. From 179 to 184m moderately fractured sections, 20-50cm long at 179.8m, 182 and 183.5 to 184m. Moderate graphite as fracture filling veinlets.	Q182441	165.28	166.10	0.82	0.11	0.05	
			Q182442	166.10	166.96	0.86	0.15	0.1	
			Q182443	166.96	167.45	0.49	0.13	0.73	
			Q182445	167.45	168.30	0.85	0.24	0.11	
			Q182446	168.30	169.20	0.90	0.16	0.12	
			Q182447	169.20	170.00	0.80	0.21	0.19	
			Q182448	170.00	171.00	1.00	0.41	0.2	
			Q182449	171.00	172.00	1.00	0.31	0.14	
			Q182450	172.00	173.00	1.00	0.21	0.1	
			Q182452	173.00	174.00	1.00	0.19	0.06	
			Q182453	174.00	175.00	1.00	1.53	0.57	
			Q182454	175.00	176.00	1.00	2.45	0.44	
			Q182456	176.00	177.00	1.00	0.11	0.07	
			Q182457	177.00	178.00	1.00	0.25	0.18	
			Q182458	178.00	179.00	1.00	0.09	0.1	
			Q182459	179.00	180.00	1.00	0.56	0.24	
			Q182460	180.00	181.00	1.00	0.19	0.15	
			Q182461	181.00	182.00	1.00	0.31	0.13	
			Q182462	182.00	183.00	1.00	0.26	0.19	
			Q182463	183.00	183.90	0.90	1.07	0.31	
			Q182465	183.90	184.80	0.90	0.27	0.27	
			Q182466	184.80	185.60	0.80	0.1	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
185.60	195.85	**GRPBX Graphitic Breccia** Dark grey with minor pink sections brecciated syenite. Good graphite content in the matrix. Subangular to subrounded syenite fragments <4cm in size. Biotite rich granodiorite(?) fragments form 189 to 192.2m. Upper contact at 40 dca. Lower contact at 20 dca.	Q182467	185.60	186.50	0.90	0.54	0.4	
			Q182468	186.50	187.40	0.90	1.47	0.49	
			Q182469	187.40	188.30	0.90	1.16	0.43	
			Q182470	188.30	189.20	0.90	0.26	0.11	
			Q182472	189.20	190.10	0.90	1.43	0.42	
			Q182473	190.10	191.00	0.90	2.27	0.43	
			Q182474	191.00	192.00	1.00	0.97	0.29	
			Q182476	192.00	193.00	1.00	2.31	0.2	
			Q182477	193.00	194.00	1.00	2.68	0.2	
			Q182478	194.00	194.90	0.90	2.16	0.11	
			Q182479	194.90	195.85	0.95	1.99	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
195.85	219.65	**SYENOP Syenite with Graphitic Overprinting** Medium grey with pink patches, fine to medium grained syenite. Moderate fracturing and minor brecciation with +/- graphite at both contacts for ~2m on each end. Blocky core, moderate fracturing from 203.6 to 204m; 206.1 to 206.7 and 211.8 to 212.8m.	Q182480	195.85	196.90	1.05	0.2	0.24	
			Q182481	196.90	198.00	1.10	0.48	0.16	
			Q182482	198.00	199.00	1.00	0.27	0.19	
			Q182483	199.00	200.00	1.00	0.48	0.46	
			Q182485	200.00	201.00	1.00	0.12	0.2	
			Q182486	201.00	202.00	1.00	0.31	0.15	
			Q182487	202.00	203.00	1.00	0.18	0.17	
			Q182488	203.00	204.00	1.00	0.15	0.11	
			Q182489	204.00	205.00	1.00	0.18	0.13	
			Q182490	205.00	206.00	1.00	0.1	0.13	
			Q182492	206.00	207.00	1.00	0.31	0.08	
			Q182493	207.00	208.00	1.00	0.16	0.13	
			Q182494	208.00	209.00	1.00	0.14	0.08	
			Q182496	209.00	210.00	1.00	0.11	0.16	
			Q182497	210.00	211.00	1.00	0.12	0.16	
			Q182498	211.00	212.00	1.00	0.22	0.13	
			Q182499	212.00	213.00	1.00	0.22	0.11	
			Q182500	213.00	214.00	1.00	0.08	0.07	
			Q182501	214.00	215.00	1.00	0.13	0.16	
			Q182502	215.00	216.00	1.00	0.03	0.16	
			Q182503	216.00	217.00	1.00	0.33	0.14	
			Q182505	217.00	217.90	0.90	2	0.21	
			Q182506	217.90	218.80	0.90	0.39	0.14	
			Q182507	218.80	219.65	0.85	0.14	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
219.65	271.00	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite. Good graphite content in the matrix. Upper contact at 60 dca. Lower contact grades into a dark grey to black fine grained conductive matrix. Fine grained, graded banding at 55 dca where fine grained, black bands 1-3mm thick alternate with coarser whitish bands 1-3cm. Good conductivity due to fine graphite in the matrix. The fragment's size increases downhole. The fragments appear to be all of the same composition, light grey to whitish-grey syenite. This is probably a finer grained section at the centre of the breccia. Fragments size increases gradually from <1cm to >5cm starting from 234m onward. From 263.5 to 271m unit becomes more like typical graphite breccia with large 5-20cm angular syenite fragments in dark gray, fine grained conductive matrix.	Q182508	219.65	220.50	0.85	1.47	0.25	
			Q182509	220.50	221.60	1.10	2.67	0.43	
			Q182510	221.60	222.70	1.10	2.65	0.53	
			Q182512	222.70	223.80	1.10	2.42	0.46	
			Q182513	223.80	224.90	1.10	2.24	0.29	
			Q182514	224.90	226.00	1.10	11.9	0.28	
			Q182516	226.00	227.00	1.00	7.74	0.25	
			Q182517	227.00	228.00	1.00	6.88	0.26	
			Q182518	228.00	229.00	1.00	5.44	0.33	2.6
			Q182519	229.00	230.00	1.00	2.57	0.43	2.65
			Q182520	230.00	231.00	1.00	4.83	0.32	2.64
			Q182521	231.00	232.00	1.00	5.72	0.3	2.63
			Q182522	232.00	233.00	1.00	2.72	0.34	2.65
			Q182523	233.00	234.00	1.00	4.56	0.36	
			Q182525	234.00	235.00	1.00	5.35	0.31	
			Q182526	235.00	236.00	1.00	5.07	0.29	
			Q182527	236.00	237.00	1.00	4.75	0.28	
			Q182528	237.00	238.00	1.00	5.13	0.33	
			Q182529	238.00	239.00	1.00	3.57	0.3	
			Q182530	239.00	240.00	1.00	3.52	0.33	
			Q182532	240.00	241.00	1.00	4.54	0.27	
			Q182533	241.00	242.00	1.00	3.81	0.24	
			Q182534	242.00	243.00	1.00	4.38	0.23	
			Q182536	243.00	244.00	1.00	4.17	0.35	
			Q182537	244.00	245.00	1.00	3.79	0.29	
			Q182538	245.00	246.00	1.00	4.85	0.29	
			Q182539	246.00	246.90	0.90	4.87	0.28	
			Q182540	246.90	247.85	0.95	5.1	0.26	
			Q182541	247.85	248.60	0.75	0.06	0.1	
			Q182542	248.60	249.50	0.90	4.64	0.31	
			Q182543	249.50	250.40	0.90	4.06	0.33	
			Q182545	250.40	251.30	0.90	5.12	0.27	
			Q182546	251.30	252.20	0.90	3.94	0.2	
			Q182547	252.20	253.10	0.90	5.28	0.28	
			Q182548	253.10	254.00	0.90	5.06	0.28	
			Q182549	254.00	255.00	1.00	4.16	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q182550	255.00	256.00	1.00	4.03	0.26	
			Q182552	256.00	257.00	1.00	4	0.24	
			Q182553	257.00	258.00	1.00	2.22	0.33	
			Q182554	258.00	259.00	1.00	1.58	0.4	
			Q182556	259.00	260.00	1.00	3.68	0.25	
			Q182557	260.00	261.00	1.00	3.09	0.27	
			Q182558	261.00	262.00	1.00	1.74	0.4	
			Q182559	262.00	263.00	1.00	1.22	0.28	
			Q182560	263.00	264.00	1.00	1.41	0.3	
			Q182561	264.00	265.00	1.00	1.24	0.28	
			Q182562	265.00	266.00	1.00	1.98	0.25	
			Q182563	266.00	267.00	1.00	1.98	0.26	
			Q182565	267.00	268.00	1.00	2.98	0.36	
			Q182566	268.00	269.00	1.00	3.04	0.31	
			Q182567	269.00	270.00	1.00	2.16	0.47	
			Q182568	270.00	271.00	1.00	1.58	0.39	
271.00	275.62	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, massive coarse syenite. Weak to locally moderate graphite overprint as a minor graphitic breccia section from 272 to 272.6m.	Q182569	271.00	272.00	1.00	0.76	0.32	
			Q182570	272.00	273.00	1.00	0.71	0.28	
			Q182572	273.00	274.00	1.00	0.25	0.28	
			Q182573	274.00	274.80	0.80	0.03	0.13	
			Q182574	274.80	275.62	0.82	0.1	0.3	
275.62	276.57	**GRPBX Graphitic Breccia** Dark grey, graphitic breccia. Matrix supported fragments of syenite <3cm in a fine grained graphite flooded matrix. Upper contact sharp at 50 dca. Lower contact sharp at 70 dca.	Q182576	275.62	276.57	0.95	2.83	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
276.57 -	278.29	**SYEN Syenite** Medium grey, medium grained, massive syenite. Weak gneissic banding. No visible graphite. Lower contact sharp at 60 dca.	Q182577	276.57	277.40	0.83	0.09	0.1	
			Q182578	277.40	278.29	0.89	0.68	0.3	
278.29 -	285.16	**GRPBX Graphitic Breccia** Dark grey matrix with medium grey to pink syenite fragments. Fine grained graphite in the matrix. Subrounded to subangular fragments range from <1 to >10cm. Good graphite content.	Q182579	278.29	279.20	0.91	3.36	0.34	2.64
			Q182580	279.20	280.10	0.90	2.41	0.3	2.64
			Q182581	280.10	281.00	0.90	2.3	0.32	2.66
			Q182582	281.00	282.00	1.00	3.2	0.27	2.62
			Q182583	282.00	283.00	1.00	3.26	0.33	2.63
			Q182585	283.00	284.10	1.10	2.95	0.26	
			Q182586	284.10	285.16	1.06	3.22	0.24	
285.16 -	285.78	**SYEN Syenite** Pinkish-grey, medium grained, massive syenite. No visible graphite. Upper Contact at 80dca. Lower contact at 65 dca.	Q182587	285.16	285.78	0.62	0.12	0.16	
285.78 -	291.97	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate intrusive. Not conductive. No visible graphite.	Q182588	285.78	286.90	1.12	0.02	0.04	
			Q182589	286.90	288.00	1.10	0.07	0.03	
			Q182590	288.00	289.00	1.00	0.07	0.03	
			Q182592	289.00	290.00	1.00	0.01	0.06	
			Q182593	290.00	291.00	1.00	0.01	0.08	
			Q182594	291.00	291.97	0.97	0.01	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
291.97	300.90	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite with good graphite in the matrix. Polymictic fragments of syenite plus minor mafic dyke and/or biotite rich fragments Minor barren syenite sections <50cm thick 295.5-296; 296.8-297.2 and 298.8-299.2.	Q182596	291.97	293.00	1.03	1.92	0.27	
			Q182597	293.00	294.00	1.00	2.26	0.2	
			Q182598	294.00	295.00	1.00	1.68	0.13	
			Q182599	295.00	296.00	1.00	1.87	0.28	
			Q182600	296.00	297.00	1.00	2.75	0.21	
			Q182601	297.00	298.00	1.00	3.52	0.25	
			Q182602	298.00	299.00	1.00	1.66	0.34	
			Q182603	299.00	300.00	1.00	5.47	0.52	
			Q182605	300.00	300.90	0.90	3.18	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
300.90	320.23	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained, massive syenite. Weak to very weak graphite overprinting as isolated graphite veinlet at lower contact. Strong fracturing from 307.7 to 309.5m. Angular core fragments range from 2-5cm. Some fractures subparallel to ca.	Q182606	300.90	302.00	1.10	0.73	0.15	
			Q182607	302.00	303.00	1.00	1.69	0.27	
			Q182608	303.00	304.00	1.00	1.65	0.24	
			Q182609	304.00	305.00	1.00	1.41	0.22	
			Q182610	305.00	306.00	1.00	1.24	0.3	
			Q182612	306.00	307.00	1.00	0.19	0.11	
			Q182613	307.00	308.00	1.00	0.09	0.12	
			Q182614	308.00	309.00	1.00	0.12	0.2	
			Q182616	309.00	310.00	1.00	0.06	0.22	
			Q182617	310.00	311.00	1.00	0.15	0.26	
			Q182618	311.00	312.00	1.00	0.23	0.17	
			Q182619	312.00	313.00	1.00	0.13	0.18	
			Q182620	313.00	314.00	1.00	0.08	0.22	
			Q182621	314.00	315.00	1.00	0.1	0.17	
			Q182622	315.00	316.00	1.00	0.25	0.23	
			Q182623	316.00	317.00	1.00	0.14	0.34	
			Q182625	317.00	318.10	1.10	0.14	0.29	
			Q182626	318.10	319.15	1.05	0.08	0.26	
			Q182627	319.15	320.23	1.08	0.31	0.3	
320.23	327.25	**DIOR Diorite** Pinkish-red with dark green specks, medium grained massive diorite(?). Coarse feldspar sections with coarse dark green hornblende. Upper contact sharp, irregular. Lower contact sharp at 70 dca.	Q182628	320.23	321.10	0.87	0.08	0.08	
			Q182629	321.10	322.00	0.90	0.09	0.09	
			Q182630	322.00	323.00	1.00	0.06	0.1	
			Q182632	323.00	324.00	1.00	0.08	0.1	
			Q182633	324.00	325.00	1.00	0.01	0.12	
			Q182634	325.00	326.00	1.00	0.06	0.59	
			Q182636	326.00	327.25	1.25	0.05	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
327.25	338.95	**SYEN Syenite** Medium grey with light pink sections, medium grained massive syenite. Weak gneissic banding. No visible graphite. Dark grey, fine grained, intermediate dykes <10cm, with fine grained biotite from 335.5 to 338.95m. from 337.5 to 338.95m as subrounded fragments. Lower contact sharp at 52 dca.	Q182637	327.25	328.10	0.85	0.04	0.05	
			Q182638	328.10	329.00	0.90	0.1	0.18	
			Q182639	329.00	330.00	1.00	0.07	0.21	
			Q182640	330.00	331.00	1.00	0.04	0.21	
			Q182641	331.00	332.00	1.00	0.09	0.16	
			Q182642	332.00	333.00	1.00	0.04	0.18	
			Q182643	333.00	334.00	1.00	0.03	0.18	
			Q182645	334.00	335.00	1.00	0.11	0.16	
			Q182646	335.00	336.00	1.00	0.12	0.15	
			Q182647	336.00	337.00	1.00	0.07	0.13	
			Q182648	337.00	338.00	1.00	0.09	0.11	
			Q182649	338.00	338.95	0.95	0.26	0.12	
338.95	355.78	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive, "gabbroic texture". Salt and pepper texture, fairly uniform. From 350.17 to 350.74m syenite section, medium grained, massive dark grey with pinkish hue. Both contacts sharp at 80 dca.	Q182650	338.95	340.00	1.05	0.1	0.1	
			Q182652	340.00	341.00	1.00	0.11	0.12	
			Q182653	341.00	342.00	1.00	0.01	0.01	
			Q182654	342.00	343.50	1.50	0.03	0.01	
			Q182656	343.50	345.00	1.50	0.09	0.01	
			Q182657	345.00	346.50	1.50	0.03	0.03	
			Q182658	346.50	348.00	1.50	0.01	0.01	
			Q182659	348.00	349.50	1.50	0.05	0.02	
			Q182660	349.50	351.00	1.50	0.06	0.09	
			Q182661	351.00	352.50	1.50	0.06	0.02	
			Q182662	352.50	354.00	1.50	0.07	0.03	
			Q182663	354.00	355.00	1.00	0.09	0.05	
			Q182665	355.00	355.78	0.78	0.06	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
355.78	360.28	**SYEN Syenite** Medium grey, medium to coarse grained, weakly banded syenite. From 356.8 to 358m dark grey, fine grained massive intermediate dykes 5-15cm. No visible graphite. Not conductive.	Q182666	355.78	357.00	1.22	0.21	0.18	
			Q182667	357.00	358.00	1.00	0.79	0.14	
			Q182668	358.00	359.15	1.15	0.15	0.14	
			Q182669	359.15	360.28	1.13	0.01	0.19	
360.28	361.26	**ID Intermediate Dyke** Medium to dark grey, fine grained massive intermediate dyke. Few subhedral feldspar phenocrysts 1-3mm. Both contacts sharp at 50 dca.	Q182670	360.28	361.26	0.98	0.01	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
361.26	402.40	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive, "gabbroic texture". Fairly uniform. Lower contact sharp but irregular at 20 dca.	Q182672	361.26	362.20	0.94	0.04	0.02	
			Q182673	362.20	363.00	0.80	0.02	0.03	
			Q182674	363.00	364.50	1.50	0.02	0.01	
			Q182676	364.50	366.00	1.50	0.03	0.02	
			Q182677	366.00	367.50	1.50	0.01	0.05	
			Q182678	367.50	369.00	1.50	0.03	0.04	
			Q182679	369.00	370.50	1.50	0.01	0.02	
			Q182680	370.50	372.00	1.50	0.01	0.02	
			Q182681	372.00	373.50	1.50	0.01	0.02	
			Q182682	373.50	375.00	1.50	0.02	0.01	
			Q182683	375.00	376.50	1.50	0.02	0.02	
			Q182685	376.50	378.00	1.50	0.01	0.01	
			Q182686	378.00	379.50	1.50	0.01	0.02	
			Q182687	379.50	381.00	1.50	0.01	0.02	
			Q182688	381.00	382.50	1.50	0.02	0.01	
			Q182689	382.50	384.00	1.50	0.02	0.02	
			Q182690	384.00	385.50	1.50	0.01	0.01	
			Q182692	385.50	387.00	1.50	0.07	0.02	
			Q182693	387.00	388.50	1.50	0.01	0.01	
			Q182694	388.50	390.00	1.50	0.01	0.02	
			Q182696	390.00	391.50	1.50	0.01	0.02	
			Q182697	391.50	393.00	1.50	0.03	0.01	
			Q182698	393.00	394.50	1.50	0.02	0.02	
			Q182699	394.50	396.00	1.50	0.02	0.05	
			Q182700	396.00	397.50	1.50	0.01	0.05	
			Q182701	397.50	399.00	1.50	0.04	0.07	
			Q182702	399.00	400.40	1.40	0.01	0.07	
			Q182703	400.40	401.40	1.00	0.01	0.04	
			Q182705	401.40	402.40	1.00	0.01	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
402.40 -	406.80	**FP Feldspar Porphyry** Dark grey, fine grained, massive intermediate intrusive. Subhedral, light pink feldspar phenocrysts 3-10mm. Subrounded 1-4mm dark green hornblende phenocrysts. One granite subrounded clast 3cm at 404.5m. 20cm graphitic breccia section from 405.4 to 405.6m. Lower contact sharp at 80 dca.	Q182706	402.40	403.40	1.00	0.07	0.41	
			Q182707	403.40	404.60	1.20	0.05	0.17	
			Q182708	404.60	405.70	1.10	1.23	0.98	
			Q182709	405.70	406.80	1.10	0.09	0.27	
406.80 -	409.10	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". No visible graphite. Lower contact sharp at 48 dca.	Q182710	406.80	408.00	1.20	0.01	0.36	
			Q182712	408.00	409.10	1.10	0.07	0.11	
409.10 -	411.85	**SYENOP Syenite with Graphitic Overprinting** Medium grey with a light pinkish hue, fine to medium grained, massive syenite. Moderate graphite as fine grained graphite in the matrix at 409.4-409.5m and as a 15cm graphitic breccia section at 410.35m. Pyrite on fracture faces at 410.6m. Lower contact sharp at 30 dca.	Q182713	409.10	410.00	0.90	2.06	0.17	
			Q182714	410.00	411.00	1.00	1.11	0.23	
			Q182716	411.00	411.85	0.85	0.26	0.15	
411.85 -	416.23	**SYENSL Syenite Sill (unmineralized)** Light to medium grey, medium to coarse grained, "gabbroic texture". Coarser and more feldspar rich from Upper Contact to 413.63m and finer grained from 414.17 to lower contact. Ground core from 414.5 to 416.23m. Probably re-drilled dropped the core from the core tube.	Q182717	411.85	412.70	0.85	0.03	0.23	
			Q182718	412.70	413.63	0.93	0.07	0.1	
			Q182719	413.63	414.17	0.54	0.03	0.02	
			Q182720	414.17	415.20	1.03	0.02	0.48	
			Q182721	415.20	416.23	1.03	0.03	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
416.23	435.90	**GRPBX Graphitic Breccia** Dark grey to black matrix supported graphitic breccia. Fine grained graphite in the matrix with angular fragments that increase in size from the center of the breccia towards the contacts. Good graphite content. Mainly crackle breccia with fracture filling graphite veinlets at both contacts for ~2m that grade into a fine grained graphite flooded matrix at the centre. From 432.5m to the lower contact clast supported typical graphite breccia with good graphite in the matrix. Lower contact sharp at 40 dca.	Q182722	416.23	417.10	0.87	2.24	0.21	
			Q182723	417.10	418.00	0.90	5.95	0.1	
			Q182725	418.00	419.00	1.00	2.62	0.31	
			Q182726	419.00	420.00	1.00	0.07	0.4	
			Q182727	420.00	421.15	1.15	5.3	0.34	
			Q182728	421.15	421.79	0.64	0.25	0.48	
			Q182729	421.79	422.33	0.54	8.39	0.14	
			Q182730	422.33	423.10	0.77	0.02	0.06	
			Q182732	423.10	423.82	0.72	0.06	0.04	
			Q182733	423.82	424.60	0.78	4.51	0.15	
			Q182734	424.60	425.13	0.53	0.07	0.04	
			Q182736	425.13	426.10	0.97	6.92	0.2	
			Q182737	426.10	427.10	1.00	7.64	0.29	
			Q182738	427.10	428.00	0.90	7.7	0.3	
			Q182739	428.00	429.00	1.00	8.09	0.32	
			Q182740	429.00	430.00	1.00	8.22	0.33	
			Q182741	430.00	431.12	1.12	7.61	0.31	
			Q182742	431.12	432.10	0.98	2.1	0.24	
			Q182743	432.10	433.20	1.10	3.86	0.26	
			Q182745	433.20	434.24	1.04	4.4	0.24	
			Q182746	434.24	434.64	0.40	0.8	0.23	
			Q182747	434.64	435.90	1.26	5.99	0.24	
435.90	439.70	**SYENOP Syenite with Graphitic Overprinting** Light t to medium grey with a light pink hue, massive medium grained syenite. Weak gneissic banding. Weak graphite overprint as fracture filling graphite veinlets along 40cm at the lower contact. Lower contact sharp at 45 dca.	Q182748	435.90	437.00	1.10	0.1	0.15	
			Q182749	437.00	438.00	1.00	0.19	0.21	
			Q182750	438.00	439.00	1.00	0.07	0.16	
			Q182752	439.00	439.70	0.70	0.7	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
439.70	440.11	**GRPBX Graphitic Breccia** Graphitic breccia with good graphite in the matrix. Feldspar porphyry dyke in the lower half. Lower contact sharp at 70 dca.	Q182753	439.70	440.11	0.41	3.08	0.97	
440.11	441.65	**SYENSL Syenite Sill (unmineralized)** Light grey to greenish grey, medium to coarse grained, massive, "gabbroic texture". No visible graphite. Lower contact sharp at 35 dca.	Q182754	440.11	441.00	0.89	0.16	0.09	
			Q182756	441.00	441.65	0.65	0.01	0.08	
441.65	451.00	**DIOR Diorite** Light to medium grey with light pink hue. Fine grained diorite (?) possible granodiorite. Granophyric texture. Fine grained grey, possible chilled margin for 30-40cm at upper contact. From 447.5 to 451m mixture of granophyric and fine grained grey possibly felsic dyke. Some in-situ brecciation with angular fine gray fragments in granophyric matrix not conductive. No visible graphite. Lower contact masked by brecciation.	Q182757	441.65	443.00	1.35	0.01	0.02	
			Q182758	443.00	444.50	1.50	0.02	0.02	
			Q182759	444.50	446.00	1.50	0.01	0.03	
			Q182760	446.00	447.50	1.50	0.01	0.03	
			Q182761	447.50	449.00	1.50	0.01	0.02	
			Q182762	449.00	450.00	1.00	0.01	0.01	
			Q182763	450.00	451.00	1.00	0.01	0.02	
451.00	457.50	**SYENSL Syenite Sill (unmineralized)** Light green to greyish-green, fine grained, massive, "gabbroic texture". Fairly uniform rock. Very fine salt and pepper texture. Lower contact sharp at 35 dca.	Q182765	451.00	452.00	1.00	0.02	0.02	
			Q182766	452.00	453.00	1.00	0.02	0.01	
			Q182767	453.00	454.50	1.50	0.01	0.01	
			Q182768	454.50	456.00	1.50	0.01	0.02	
			Q182769	456.00	457.50	1.50	0.02	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
457.50 -	459.00	**ID Intermediate Dyke** Medium grey, fine grained massive felsic to intermediate dyke. Lower contact sharp at 40 dca.	Q182770	457.50	458.25	0.75	0.01	0.02	
			Q182772	458.25	459.00	0.75	0.01	0.03	
459.00 -	460.45	**SYEN Syenite** Light to medium grey, fine grained, massive syenite. No visible graphite. Lower contact sharp but irregular.	Q182773	459.00	459.70	0.70	0.31	0.11	
			Q182774	459.70	460.45	0.75	0.45	0.14	
460.45 -	473.70	**GRPBX Graphitic Breccia** Clast supported graphitic breccia with very good graphite content in the matrix and angular syenite and mafic to intermediate rock fragments. Fragments range in size from <1cm to 10-15cm. More fine grained, grey mafic dyke(?) fragments than syenite fragments. Lower contact sharp at 55 dca.	Q182776	460.45	461.40	0.95	5.12	0.1	
			Q182777	461.40	462.30	0.90	1.95	0.19	
			Q182778	462.30	463.20	0.90	6.96	0.23	2.58
			Q182779	463.20	464.10	0.90	6.07	0.25	2.62
			Q182780	464.10	465.00	0.90	10.6	0.28	2.8
			Q182781	465.00	466.00	1.00	10.3	0.41	2.62
			Q182782	466.00	467.00	1.00	9.95	0.28	2.58
			Q182783	467.00	468.28	1.28	8.93	0.36	
			Q182785	468.28	469.10	0.82	0.39	0.26	
			Q182786	469.10	469.86	0.76	0.48	0.32	
			Q182787	469.86	470.80	0.94	13.8	0.44	
			Q182788	470.80	471.80	1.00	9.25	0.35	
			Q182789	471.80	472.80	1.00	5.87	0.19	
			Q182790	472.80	473.70	0.90	5.26	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
473.70	490.40	**MDOP Mafic Dyke with Graphitic Overprinting** Greenish-grey, fine grained massive mafic to intermediate dyke. Weak to moderate graphite overprint near the upper contact as fracture filling graphite veinlets. Fracture filling, vuggy quartz-carbonate veinlets from 480 to 483.5m. Moderate fracturing from 482.4 to 483.3m. 3cm fault gouge at 477.97. From 489.4 to 489.45 4, broken core and minor fault gouge.	Q182792	473.70	474.80	1.10	1.53	0.22	
			Q182793	474.80	475.90	1.10	0.4	0.51	
			Q182794	475.90	477.00	1.10	0.58	0.74	
			Q182796	477.00	478.10	1.10	0.85	0.67	
			Q182797	478.10	479.00	0.90	1.17	1.01	
			Q182798	479.00	480.00	1.00	0.44	0.41	
			Q182799	480.00	481.00	1.00	0.4	0.45	
			Q182800	481.00	481.70	0.70	0.69	0.47	
			Q182801	481.70	482.20	0.50	0.05	0.48	
			Q182802	482.20	483.00	0.80	0.28	0.73	
			Q182803	483.00	484.00	1.00	0.36	1.59	
			Q182805	484.00	485.00	1.00	0.55	0.73	
			Q182806	485.00	486.00	1.00	0.2	0.36	
			Q182807	486.00	487.00	1.00	0.51	0.92	
			Q182808	487.00	488.00	1.00	0.25	0.44	
			Q182809	488.00	488.85	0.85	0.16	0.62	
			Q182810	488.85	489.33	0.48	0.1	0.83	
			Q182812	489.33	490.40	1.07	1.22	2.01	
490.40	495.75	**GRPBX Graphitic Breccia** Dark grey to greenish-grey, mafic to intermediate (?) brecciated unit. Could be a fine grained gabbro. Excellent graphite content as fracture filling veins and veinlets and graphite flooding in the matrix. 10cm massive graphite vein with pyrite specks and blebs at 494.9	Q182813	490.40	491.30	0.90	7.37	1.46	
			Q182814	491.30	492.00	0.70	7.28	1.55	
			Q182816	492.00	493.00	1.00	13.6	1.64	
			Q182817	493.00	494.00	1.00	7.4	1.28	
			Q182818	494.00	495.00	1.00	2.41	0.97	
			Q182819	495.00	495.75	0.75	13.2	1.57	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
495.75	498.36	**MDOP Mafic Dyke with Graphitic Overprinting** Dark grey to dark green, massive, fine grained mafic dyke. Could be a fine grained gabbro. Weak graphite overprint as odd hairline fracture filling veinlet.	Q182820	495.75	496.50	0.75	0.41	0.5	
			Q182821	496.50	497.40	0.90	0.09	0.3	
			Q182822	497.40	498.36	0.96	0.38	0.48	
498.36	503.37	**GRPBX Graphitic Breccia** Dark grey to dark green, brecciated fine grained mafic dyke (?) could be a fine grained gabbro. Very good graphite in the matrix as fracture filling and graphite flooding.	Q182823	498.36	499.30	0.94	10.2	0.71	
			Q182825	499.30	500.20	0.90	5.1	2.02	
			Q182826	500.20	501.20	1.00	9.17	1.44	
			Q182827	501.20	502.30	1.10	11.6	0.89	
			Q182828	502.30	503.37	1.07	5.37	0.52	
503.37	513.70	**MDOP Mafic Dyke with Graphitic Overprinting** Dark grey to greenish-grey, fine grained massive mafic to intermediate intrusive. Cut by numerous reddish-pink, medium to coarse grained syenite (?) sections from 503.7 to 510m.	Q182829	503.37	504.30	0.93	0.96	0.35	
			Q182830	504.30	505.20	0.90	0.15	0.2	
			Q182832	505.20	506.20	1.00	0.14	0.13	
			Q182833	506.20	507.20	1.00	1.55	0.63	
			Q182834	507.20	508.10	0.90	0.12	0.54	
			Q182836	508.10	509.00	0.90	2.64	2.21	
			Q182837	509.00	510.00	1.00	0.13	0.74	
			Q182838	510.00	511.00	1.00	0.33	0.54	
			Q182839	511.00	512.00	1.00	0.38	0.67	
			Q182840	512.00	513.00	1.00	0.23	0.13	
			Q182841	513.00	513.70	0.70	0.09	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
513.70	540.00	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, fine to medium grained, massive, "gabbroic texture". Fairly uniform unit. Upper contact masked by fine grained grey intermediate dykes. Light green to brownish-green discoloration from 513.7 to 515.5m fine grained chilled margin (?). EOH 540.0m	Q182842	513.70	515.00	1.30	0.05	0.36	
			Q182843	515.00	516.00	1.00	0.03	0.15	
			Q182845	516.00	517.50	1.50	0.03	0.1	
			Q182846	517.50	519.00	1.50	0.11	0.01	
			Q182847	519.00	520.50	1.50	0.03	0.04	
			Q182848	520.50	522.00	1.50	0.02	0.03	
			Q182849	522.00	523.50	1.50	0.04	0.06	
			Q182850	523.50	525.00	1.50	0.04	0.06	
			Q182852	525.00	526.50	1.50	0.03	0.2	
			Q182853	526.50	528.00	1.50	0.02	0.06	
			Q182854	528.00	529.50	1.50	0.03	0.06	
			Q182856	529.50	531.00	1.50	0.03	0.02	
			Q182857	531.00	532.50	1.50	0.02	0.07	
			Q182858	532.50	534.00	1.50	0.04	0.03	
			Q182859	534.00	535.50	1.50	0.12	0.04	
			Q182860	535.50	537.00	1.50	0.01	0.02	
			Q182861	537.00	538.50	1.50	0.01	0.11	
			Q182862	538.50	540.00	1.50	0.03	0.04	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	530.60	02/08/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545702.4	682717.5			Reflex APS	08/08/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	123.40	275.40		-46.20	Chibougamau Diamond Drilling	09/08/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	467.6	*Casing Pulled*	*Casing (1)*	63.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test West pipe from the East.	This hole intersected two main graphitic breccia sections from 148.80m to 306.15m for 157.35m and from 417.30m to 443.33m for 26.03m both interrupted by graphite overprinted syenite sections and mafic to intermediate dykes of varied thickness. From 126.00m to 313.30m, the assays from this intersection averaged 2.02% Cg over 187.30m; within this intersection a higher grade graphite zone from 211.00m to 300.00m averaged 3.07% Cg over 89.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
66.00			280.2	271.2	-50.2	-50.2	☑	Reflex EZ	56067	
69.00			281.7	272.7	-50	-50	☑	Reflex EZ	56413	
72.00			282.1	273.1	-49.9	-49.9	☑	Reflex EZ	56369	
78.00			282.3	273.3	-49.8	-49.8	☑	Reflex EZ	56283	
81.00			282.7	273.7	-49.6	-49.6	☑	Reflex EZ	56166	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			282.1	273.1	-50.1	-50.1	☑	Reflex EZ	56150	
87.00			282.6	273.6	-49.8	-49.8	☑	Reflex EZ	56254	
90.00			283.1	274.1	-49.5	-49.5	☑	Reflex EZ	56258	
93.00			283.9	274.9	-49.7	-49.7	☑	Reflex EZ	56104	
96.00			283.4	274.4	-49.8	-49.8	☑	Reflex EZ	56229	
99.00			283.6	274.6	-49.7	-49.7	☑	Reflex EZ	56208	
102.00			283.4	274.4	-49.7	-49.7	☑	Reflex EZ	56238	
105.00			283.2	274.2	-49.6	-49.6	☑	Reflex EZ	56190	
108.00			283.2	274.2	-49.8	-49.8	☑	Reflex EZ	56312	
111.00			283.4	274.4	-49.6	-49.6	☑	Reflex EZ	56128	
114.00			282.8	273.8	-49.9	-49.9	☑	Reflex EZ	56306	
117.00			283.7	274.7	-49.6	-49.6	☑	Reflex EZ	56151	
120.00			282.6	273.6	-50	-50	☑	Reflex EZ	56352	
123.00			283.6	274.6	-49.6	-49.6	☑	Reflex EZ	56123	
126.00			283.4	274.4	-49.9	-49.9	☑	Reflex EZ	56136	
129.00			283.2	274.2	-49.9	-49.9	☑	Reflex EZ	56233	
135.00			284.3	275.3	-49.4	-49.4	☑	Reflex EZ	56171	
138.00			283	274	-50	-50	☑	Reflex EZ	56242	
141.00			282.9	273.9	-50	-50	☑	Reflex EZ	56275	
144.00			283.2	274.2	-49.8	-49.8	☑	Reflex EZ	56137	
147.00			283	274	-50	-50	☑	Reflex EZ	56184	
150.00			283.4	274.4	-50	-50	☑	Reflex EZ	56203	
153.00			284.7	275.7	-49.7	-49.7	☑	Reflex EZ	56179	
156.00			283.2	274.2	-50	-50	☑	Reflex EZ	56219	
159.00			283.7	274.7	-49.8	-49.8	☑	Reflex EZ	56115	
162.00			283.4	274.4	-49.8	-49.8	☑	Reflex EZ	56126	
165.00			283.9	274.9	-49.8	-49.8	☑	Reflex EZ	56119	
168.00			283.4	274.4	-49.9	-49.9	☑	Reflex EZ	56206	
171.00			283.6	274.6	-49.9	-49.9	☑	Reflex EZ	56177	
174.00			283.7	274.7	-49.7	-49.7	☑	Reflex EZ	56103	
177.00			284.1	275.1	-49.8	-49.8	☑	Reflex EZ	56151	
180.00			283.3	274.3	-49.9	-49.9	☑	Reflex EZ	56173	
183.00			283.7	274.7	-50	-50	☑	Reflex EZ	56160	
186.00			283.2	274.2	-49.9	-49.9	☑	Reflex EZ	56164	
189.00			283.4	274.4	-50.1	-50.1	☑	Reflex EZ	56207	
192.00			284.1	275.1	-49.9	-49.9	☑	Reflex EZ	56178	
195.00			283.5	274.5	-50	-50	☑	Reflex EZ	56258	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
198.00			284.1	275.1	-49.9	-49.9	☑	Reflex EZ	56175	
201.00			284	275	-49.9	-49.9	☑	Reflex EZ	56141	
204.00			283.4	274.4	-49.9	-49.9	☑	Reflex EZ	56153	
207.00			283.3	274.3	-50	-50	☑	Reflex EZ	56208	
210.00			283.8	274.8	-50	-50	☑	Reflex EZ	56141	
213.00			283.8	274.8	-50.2	-50.2	☑	Reflex EZ	56223	
216.00			283.7	274.7	-50.2	-50.2	☑	Reflex EZ	56220	
219.00			283.4	274.4	-50.5	-50.5	☑	Reflex EZ	56239	
222.00			283	274	-50.3	-50.3	☑	Reflex EZ	56207	
225.00			283.5	274.5	-50.3	-50.3	☑	Reflex EZ	56208	
228.00			283.5	274.5	-50.4	-50.4	☑	Reflex EZ	56208	
231.00			283.6	274.6	-50.3	-50.3	☑	Reflex EZ	56147	
234.00			283.7	274.7	-50.2	-50.2	☑	Reflex EZ	55953	
237.00			283.5	274.5	-50.2	-50.2	☑	Reflex EZ	56156	
240.00			283	274	-50.3	-50.3	☑	Reflex EZ	56131	
243.00			283.6	274.6	-50.3	-50.3	☑	Reflex EZ	56149	
246.00			282.9	273.9	-50.5	-50.5	☑	Reflex EZ	56211	
249.00			283.1	274.1	-50.3	-50.3	☑	Reflex EZ	56146	
252.00			283.5	274.5	-50.2	-50.2	☑	Reflex EZ	56151	
255.00			282.9	273.9	-50.5	-50.5	☑	Reflex EZ	56275	
258.00			283.3	274.3	-50.4	-50.4	☑	Reflex EZ	56251	
261.00			282.8	273.8	-50.4	-50.4	☑	Reflex EZ	56247	
264.00			283.5	274.5	-50.3	-50.3	☑	Reflex EZ	56185	
267.00			282.6	273.6	-50.5	-50.5	☑	Reflex EZ	56331	
270.00			283.6	274.6	-50.2	-50.2	☑	Reflex EZ	56188	
273.00			283.3	274.3	-50.5	-50.5	☑	Reflex EZ	56308	
276.00			283.3	274.3	-50.3	-50.3	☑	Reflex EZ	56228	
279.00			283.2	274.2	-50.5	-50.5	☑	Reflex EZ	56234	
282.00			282.8	273.8	-50.3	-50.3	☑	Reflex EZ	56125	
285.00			283.7	274.7	-50.4	-50.4	☑	Reflex EZ	56235	
288.00			283.1	274.1	-50.5	-50.5	☑	Reflex EZ	56282	
291.00			283.3	274.3	-50.5	-50.5	☑	Reflex EZ	56279	
294.00			283.1	274.1	-50.5	-50.5	☑	Reflex EZ	56263	
297.00			283.7	274.7	-50.5	-50.5	☑	Reflex EZ	56242	
300.00			283.1	274.1	-50.6	-50.6	☑	Reflex EZ	56315	
303.00			283.5	274.5	-50.3	-50.3	☑	Reflex EZ	56207	
306.00			283.7	274.7	-50.4	-50.4	☑	Reflex EZ	56260	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
309.00			283.8	274.8	-50.4	-50.4	☑	Reflex EZ	56235	
312.00			284.1	275.1	-50.4	-50.4	☑	Reflex EZ	56187	
315.00			283.5	274.5	-50.5	-50.5	☑	Reflex EZ	56328	
318.00			282.9	273.9	-50.5	-50.5	☑	Reflex EZ	56270	
321.00			283.7	274.7	-50.6	-50.6	☑	Reflex EZ	55983	
324.00			283.8	274.8	-50.4	-50.4	☑	Reflex EZ	55917	
327.00			282.7	273.7	-50.6	-50.6	☑	Reflex EZ	56101	
330.00			282.8	273.8	-50.5	-50.5	☑	Reflex EZ	56023	
333.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56126	
336.00			283.7	274.7	-50.5	-50.5	☑	Reflex EZ	55963	
339.00			283.3	274.3	-50.6	-50.6	☑	Reflex EZ	56272	
342.00			283.9	274.9	-50.7	-50.7	☑	Reflex EZ	56248	
345.00			282.5	273.5	-50.7	-50.7	☑	Reflex EZ	56216	
348.00			284.5	275.5	-50.5	-50.5	☑	Reflex EZ	56007	
351.00			284	275	-50.6	-50.6	☑	Reflex EZ	56159	
354.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56007	
357.00			284.2	275.2	-50.8	-50.8	☑	Reflex EZ	56181	
360.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	55947	
363.00			283.7	274.7	-50.7	-50.7	☑	Reflex EZ	56103	
366.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56039	
369.00			284	275	-50.5	-50.5	☑	Reflex EZ	55930	
372.00			284.4	275.4	-50.6	-50.6	☑	Reflex EZ	55984	
375.00			284.1	275.1	-50.6	-50.6	☑	Reflex EZ	55903	
378.00			283.9	274.9	-50.5	-50.5	☑	Reflex EZ	56196	
381.00			283.8	274.8	-50.8	-50.8	☑	Reflex EZ	55959	
384.00			284	275	-50.9	-50.9	☑	Reflex EZ	56117	
387.00			282.5	273.5	-50.9	-50.9	☑	Reflex EZ	55949	
390.00			283.7	274.7	-50.9	-50.9	☑	Reflex EZ	56223	
393.00			283.3	274.3	-50.9	-50.9	☑	Reflex EZ	56086	
396.00			283	274	-50.8	-50.8	☑	Reflex EZ	56098	
399.00			283.4	274.4	-50.9	-50.9	☑	Reflex EZ	56141	
402.00			283.4	274.4	-50.9	-50.9	☑	Reflex EZ	56216	
405.00			282.4	273.4	-50.9	-50.9	☑	Reflex EZ	56133	
408.00			283	274	-50.9	-50.9	☑	Reflex EZ	56100	
411.00			284.1	275.1	-50.7	-50.7	☑	Reflex EZ	56429	
414.00			283.8	274.8	-50.7	-50.7	☑	Reflex EZ	56154	
417.00			283.5	274.5	-50.7	-50.7	☑	Reflex EZ	56129	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
420.00			284.4	275.4	-50.8	-50.8	☑	Reflex EZ	56216	
423.00			283.7	274.7	-50.8	-50.8	☑	Reflex EZ	56221	
426.00			282.5	273.5	-50.8	-50.8	☑	Reflex EZ	55719	
429.00			282.3	273.3	-50.9	-50.9	☑	Reflex EZ	56384	
432.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56089	
435.00			283.6	274.6	-50.9	-50.9	☑	Reflex EZ	56214	
438.00			284	275	-50.7	-50.7	☑	Reflex EZ	56296	
441.00			284	275	-50.8	-50.8	☑	Reflex EZ	56372	
444.00			283.7	274.7	-50.8	-50.8	☑	Reflex EZ	56325	
447.00			283.6	274.6	-50.6	-50.6	☑	Reflex EZ	55895	
450.00			284.4	275.4	-50.7	-50.7	☑	Reflex EZ	56058	
453.00			283.5	274.5	-50.7	-50.7	☑	Reflex EZ	56307	
456.00			284	275	-50.5	-50.5	☑	Reflex EZ	56274	
459.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56296	
462.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56279	
468.00			283.7	274.7	-50.8	-50.8	☑	Reflex EZ	56348	
471.00			284	275	-50.6	-50.6	☑	Reflex EZ	56282	
474.00			284.1	275.1	-50.7	-50.7	☑	Reflex EZ	56308	
477.00			283.8	274.8	-50.6	-50.6	☑	Reflex EZ	56139	
480.00			284.2	275.2	-50.8	-50.8	☑	Reflex EZ	56039	
483.00			282.7	273.7	-50.6	-50.6	☑	Reflex EZ	55950	
486.00			283.5	274.5	-50.7	-50.7	☑	Reflex EZ	56197	
489.00			284.2	275.2	-50.5	-50.5	☑	Reflex EZ	56238	
492.00			283.9	274.9	-50.5	-50.5	☑	Reflex EZ	56231	
495.00			284	275	-50.7	-50.7	☑	Reflex EZ	56329	
498.00			284.1	275.1	-50.6	-50.6	☑	Reflex EZ	56244	
501.00			284.3	275.3	-50.5	-50.5	☑	Reflex EZ	56219	
504.00			283.6	274.6	-50.7	-50.7	☑	Reflex EZ	56305	
507.00			284.3	275.3	-50.5	-50.5	☑	Reflex EZ	56258	
510.00			283.9	274.9	-50.6	-50.6	☑	Reflex EZ	56353	
513.00			283.1	274.1	-50.6	-50.6	☑	Reflex EZ	56622	
516.00			283.9	274.9	-50.6	-50.6	☑	Reflex EZ	56310	
519.00			283.8	274.8	-50.4	-50.4	☑	Reflex EZ	55937	
522.00			283.9	274.9	-50.5	-50.5	☑	Reflex EZ	56251	
525.00			283.7	274.7	-50.5	-50.5	☑	Reflex EZ	56004	
528.00			283.4	274.4	-50.6	-50.6	☑	Reflex EZ	56230	
531.00			283.7	274.7	-50.6	-50.6	☑	Reflex EZ	56580	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	61.75	**OB Overburden** From 0.0 to 61.1 unknown overburden. From 61.1 to 61.75 granite, limestone boulders.							
61.75	63.10	**SED Sediment** Whitish-beige, vuggy in places bioclastic limestone.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.10	- 120.00	**SYEN Syenite** Medium grey to reddish-grey, medium grained massive syenite. Localized, moderate paleo-weathering at the top from 65.8 to 71.2 and from 86 to 86.8.	Q182863	64.00	65.00	1.00	0.02	0.08	
			Q182865	65.00	66.00	1.00	0.05	0.03	
			Q182866	66.00	67.00	1.00	0.06	0.01	
			Q182867	67.00	68.00	1.00	0.01	0.01	
			Q182868	68.00	69.00	1.00	0.01	0.03	
			Q182869	69.00	70.00	1.00	0.04	0.01	
			Q182870	70.00	71.00	1.00	0.04	0.03	
			Q182872	71.00	72.00	1.00	0.01	0.02	
			Q182873	72.00	73.00	1.00	0.01	0.05	
			Q182874	73.00	74.00	1.00	0.01	0.03	
			Q182876	74.00	75.00	1.00	0.02	0.02	
			Q182877	75.00	76.00	1.00	0.02	0.13	
			Q182878	76.00	77.00	1.00	0.02	0.04	
			Q182879	77.00	78.00	1.00	0.01	0.01	
			Q182880	78.00	79.00	1.00	0.12	0.02	
			Q182881	79.00	80.00	1.00	0.05	0.24	
			Q182882	80.00	81.00	1.00	0.01	0.13	
			Q182883	81.00	82.00	1.00	0.07	0.07	
			Q182885	82.00	83.00	1.00	0.01	0.08	
			Q182886	83.00	84.00	1.00	0.04	0.04	
			Q182887	84.00	85.00	1.00	0.03	0.09	
			Q182888	85.00	86.00	1.00	0.04	0.05	
			Q182889	86.00	87.00	1.00	0.27	0.04	
			Q182890	87.00	88.00	1.00	0.06	0.13	
			Q182892	88.00	89.00	1.00	0.11	0.23	
			Q182893	89.00	90.00	1.00	0.08	0.26	
			Q182894	90.00	91.00	1.00	0.08	0.25	
			Q182896	91.00	92.00	1.00	0.01	0.05	
			Q182897	92.00	93.00	1.00	0.03	0.14	
			Q182898	93.00	94.00	1.00	0.01	0.09	
			Q182899	94.00	95.00	1.00	0.25	0.09	
			Q182900	95.00	96.00	1.00	0.06	0.04	
			Q182901	96.00	97.00	1.00	0.13	0.07	
			Q182902	97.00	98.00	1.00	0.42	0.13	
			Q182903	98.00	99.00	1.00	0.04	0.07	
			Q182905	99.00	100.00	1.00	0.08	0.12	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q182906	100.00	101.00	1.00	0.08	0.09	
		Q182907	101.00	102.00	1.00	0.1	0.11	
		Q182908	102.00	103.00	1.00	0.13	0.11	
		Q182909	103.00	104.00	1.00	0.13	0.06	
		Q182910	104.00	105.00	1.00	0.12	0.07	
		Q182912	105.00	106.00	1.00	0.09	0.09	
		Q182913	106.00	107.00	1.00	0.16	0.02	
		Q182914	107.00	108.00	1.00	0.01	0.04	
		Q182916	108.00	109.00	1.00	0.18	0.04	
		Q182917	109.00	110.00	1.00	0.06	0.07	
		Q182918	110.00	111.00	1.00	0.01	0.08	
		Q182919	111.00	112.00	1.00	0.11	0.1	
		Q182920	112.00	113.00	1.00	0.01	0.11	
		Q182921	113.00	114.00	1.00	0.06	0.15	
		Q182922	114.00	115.00	1.00	0.11	0.13	
		Q182923	115.00	116.00	1.00	0.09	0.11	
		Q182925	116.00	117.00	1.00	0.07	0.08	
		Q182926	117.00	118.00	1.00	0.06	0.06	
		Q182927	118.00	119.00	1.00	0.01	0.04	
		Q182928	119.00	120.00	1.00	0.01	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
120.00 -	148.80	**SYENOP Syenite with Graphitic Overprinting** Same syenite unit as above with few hairline fracture filling graphite veinlets starting at 120 onward. Weak to locally moderate graphite overprinting as fracture Density increases downhole. Graphite veinlets from 120 to 122m; from 128 to 129 at 136.7 and from 145.8 to 146.8m. Lower contact sharp at 38 dca.	Q182929	120.00	121.00	1.00	0.16	0.07	
			Q182930	121.00	122.00	1.00	0.16	0.05	
			Q182932	122.00	123.00	1.00	0.04	0.06	
			Q182933	123.00	124.00	1.00	0.04	0.17	
			Q182934	124.00	125.00	1.00	0.07	0.07	
			Q182936	125.00	126.00	1.00	0.04	0.14	
			Q182937	126.00	127.00	1.00	0.27	0.2	
			Q182938	127.00	128.00	1.00	0.33	0.15	
			Q182939	128.00	129.00	1.00	2.79	0.45	
			Q182940	129.00	130.00	1.00	0.47	0.27	
			Q182941	130.00	131.00	1.00	0.02	0.15	
			Q182942	131.00	132.00	1.00	0.14	0.1	
			Q182943	132.00	133.00	1.00	0.11	0.1	
			Q182945	133.00	134.00	1.00	0.09	0.1	
			Q182946	134.00	135.00	1.00	0.17	0.09	
			Q182947	135.00	136.00	1.00	0.14	0.07	
			Q182948	136.00	137.00	1.00	0.11	0.08	
			Q182949	137.00	138.00	1.00	0.1	0.2	
			Q182950	138.00	139.00	1.00	0.15	0.2	
			Q182952	139.00	140.00	1.00	0.42	0.09	
			Q182953	140.00	141.00	1.00	0.35	0.07	
			Q182954	141.00	142.00	1.00	0.12	0.08	
			Q182956	142.00	143.00	1.00	0.15	0.1	
			Q182957	143.00	144.00	1.00	0.14	0.08	
			Q182958	144.00	145.00	1.00	0.11	0.04	
			Q182959	145.00	145.80	0.80	0.11	0.08	
			Q182960	145.80	146.80	1.00	0.53	0.19	
			Q182961	146.80	147.80	1.00	0.09	0.06	
			Q182962	147.80	148.80	1.00	0.45	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
148.80	150.35	**GRPBX Graphitic Breccia** Very dark grey brecciated syenite with fracture filling graphite veinlets. The first breccia section in this hole. Moderate to good graphite. Lower contact sharp at 70 dca.	Q182963	148.80	149.50	0.70	4.19	0.32	
			Q182965	149.50	150.35	0.85	4.33	0.27	
150.35	170.20	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pink grey, medium grained massive syenite. Weak to locally moderate graphite overprinting as fracture filling graphite veinlets. Thin <10cm brecciated sections from the upper contact to 152m. Few narrow 10-20cm sections of graphite veinlets at 157.4; 158.8-159; 164-164.2 and 166.5 to 167. Lower contact sharp at 70 dca.	Q182966	150.35	151.20	0.85	1.74	0.24	
			Q182967	151.20	152.00	0.80	1.54	0.3	
			Q182968	152.00	153.00	1.00	0.16	0.24	
			Q182969	153.00	154.00	1.00	0.57	0.21	
			Q182970	154.00	155.00	1.00	0.32	0.22	
			Q182972	155.00	156.00	1.00	0.76	0.22	
			Q182973	156.00	157.00	1.00	0.62	0.32	
			Q182974	157.00	158.00	1.00	0.46	0.17	
			Q182976	158.00	159.00	1.00	0.58	0.25	
			Q182977	159.00	160.00	1.00	0.43	0.18	
			Q182978	160.00	161.00	1.00	0.2	0.2	
			Q182979	161.00	162.00	1.00	0.15	0.18	
			Q182980	162.00	163.00	1.00	0.16	0.13	
			Q182981	163.00	164.00	1.00	0.08	0.2	
			Q182982	164.00	165.00	1.00	0.4	0.3	
			Q182983	165.00	166.00	1.00	0.24	0.28	
			Q182985	166.00	167.00	1.00	0.77	0.34	
			Q182986	167.00	168.00	1.00	0.45	0.36	
			Q182987	168.00	169.00	1.00	0.47	0.26	
			Q182988	169.00	170.21	1.21	0.43	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
170.20	181.00	**GRPBX Graphitic Breccia** Matrix supported graphitic breccia with light grey angular to subangular syenite clasts in dark grey to black fine grained graphitic matrix. Fragments range in size from 1mm to 20cm. Good graphite content. Few dark green to brownish-green mafic fragments.	Q182989	170.21	171.10	0.89	8.82	0.34	
			Q182990	171.10	172.00	0.90	1.76	0.35	
			Q182992	172.00	173.00	1.00	4.27	0.48	
			Q182993	173.00	174.00	1.00	3.94	0.39	
			Q182994	174.00	175.00	1.00	6.17	0.34	
			Q182996	175.00	176.00	1.00	5.83	0.35	2.63
			Q182997	176.00	177.00	1.00	5.19	0.28	2.62
			Q182998	177.00	178.00	1.00	6.73	0.35	2.63
			Q182999	178.00	179.00	1.00	6.07	0.32	2.63
			Q183000	179.00	180.00	1.00	9.45	0.24	2.61
			Q183001	180.00	181.00	1.00	1.58	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
181.00	204.85	**SYENOP Syenite with Graphitic Overprinting** Medium grey , medium to coarse grained massive syenite. Weak to locally moderate graphite overprinting a fracture filling graphite veinlets from 192 to 194 an from 200 to 201m. Blocky core moderate fracturing from 203.2 to 204.85.	Q183002	181.00	182.00	1.00	0.52	0.2	
			Q183003	182.00	183.00	1.00	0.08	0.07	
			Q183005	183.00	184.00	1.00	0.23	0.35	
			Q183006	184.00	185.00	1.00	0.26	0.42	
			Q183007	185.00	186.00	1.00	0.04	0.05	
			Q183008	186.00	187.00	1.00	0.12	0.28	
			Q183009	187.00	188.00	1.00	0.11	0.2	
			Q183010	188.00	189.00	1.00	0.12	0.22	
			Q183012	189.00	190.00	1.00	0.26	0.17	
			Q183013	190.00	191.00	1.00	0.17	0.17	
			Q183014	191.00	192.00	1.00	0.3	0.38	
			Q183016	192.00	193.00	1.00	0.95	0.63	
			Q183017	193.00	194.00	1.00	2.32	0.7	
			Q183018	194.00	195.00	1.00	0.9	0.39	
			Q183019	195.00	196.00	1.00	0.65	0.49	
			Q183020	196.00	197.00	1.00	0.32	0.27	
			Q183021	197.00	198.00	1.00	0.4	0.19	
			Q183022	198.00	199.00	1.00	0.29	0.28	
			Q183023	199.00	200.00	1.00	0.2	0.16	
			Q183025	200.00	201.00	1.00	0.29	0.18	
			Q183026	201.00	202.00	1.00	0.09	0.09	
			Q183027	202.00	203.00	1.00	0.21	0.24	
			Q183028	203.00	204.00	1.00	0.48	0.31	
			Q183029	204.00	204.85	0.85	0.62	1.5	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
204.85	276.75	**GRPBX Graphitic Breccia** Medium grey with pinkish-red patches, brecciated syenite. Moderate to locally good conductivity. Fine graphite in the matrix and as fracture filling veinlets. Clast supported breccia from upper contact to 225m. Minor thin <50cm syenite sections from 218 to 225m. 10-25 cm Dark grey to greenish-grey fine grained intermediate dykes with very fine biotite and dark red hematite staining. Weak foliation at 35 dca. Minor carbonate veinlets at 221m. From 225 to 240m matrix supported, graphitic breccia. Dark grey to almost black fine grained matrix. Weak to locally moderate conductivity. Fragments are subrounded to subangular syenite and range in size from 1mm up to 5cm. Fragment size increases gradually downhole. Weak banding from 225 to 230m in the fine grain section of the breccia. Moderate graphite content. From 240 to 276.75m fragment size increases up to 10cm. Lower contact sharp at 80 dca.	Q183030	204.85	205.90	1.05	0.58	0.6	
			Q183032	205.90	207.00	1.10	1	0.48	
			Q183033	207.00	208.00	1.00	0.41	0.23	
			Q183034	208.00	209.00	1.00	0.34	0.33	
			Q183036	209.00	210.00	1.00	0.51	0.2	
			Q183037	210.00	211.00	1.00	0.3	0.19	
			Q183038	211.00	212.00	1.00	2.77	0.17	
			Q183039	212.00	213.00	1.00	1.68	0.38	
			Q183040	213.00	214.00	1.00	2.58	0.14	
			Q183041	214.00	215.00	1.00	2.46	0.13	
			Q183042	215.00	216.00	1.00	3.13	0.26	
			Q183043	216.00	217.00	1.00	1.05	1.23	
			Q183045	217.00	218.00	1.00	4.58	1.49	
			Q183046	218.00	219.00	1.00	1.13	0.63	
			Q183047	219.00	220.00	1.00	2.36	1.82	
			Q183048	220.00	221.00	1.00	2.47	3.92	
			Q183049	221.00	222.00	1.00	0.62	0.27	
			Q183050	222.00	223.00	1.00	1.79	0.45	
			Q183052	223.00	224.00	1.00	0.5	0.24	
			Q183053	224.00	225.00	1.00	0.91	0.32	
			Q183054	225.00	226.00	1.00	8.42	0.34	
			Q183056	226.00	227.00	1.00	7.07	0.38	
			Q183057	227.00	228.00	1.00	6.38	0.33	
			Q183058	228.00	229.00	1.00	5.54	0.36	
			Q183059	229.00	230.00	1.00	3.67	0.37	
			Q183060	230.00	231.00	1.00	4.06	0.32	
			Q183061	231.00	232.00	1.00	2.77	0.39	
			Q183062	232.00	233.00	1.00	3.25	0.32	
			Q183063	233.00	234.00	1.00	4.03	0.36	
			Q183065	234.00	235.00	1.00	4.89	0.3	
			Q183066	235.00	236.00	1.00	3.06	0.39	
			Q183067	236.00	237.00	1.00	3.93	0.4	
			Q183068	237.00	238.00	1.00	3.3	0.45	
			Q183069	238.00	239.00	1.00	3.72	0.3	
			Q183070	239.00	240.00	1.00	3.99	0.32	
			Q183072	240.00	241.00	1.00	3.87	0.35	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q183073	241.00	242.00	1.00	3.68	0.32	
		Q183074	242.00	243.00	1.00	3.77	0.33	
		Q183076	243.00	244.00	1.00	3.45	0.32	
		Q183077	244.00	244.80	0.80	3.66	0.35	
		Q183078	244.80	245.40	0.60	1.1	0.1	
		Q183079	245.40	246.20	0.80	3.91	0.27	
		Q183080	246.20	247.10	0.90	4.08	0.3	
		Q183081	247.10	248.00	0.90	4.23	0.31	
		Q183082	248.00	249.00	1.00	4.17	0.28	
		Q183083	249.00	250.00	1.00	3.64	0.27	
		Q183085	250.00	251.00	1.00	3.57	0.24	
		Q183086	251.00	252.00	1.00	3.82	0.34	
		Q183087	252.00	253.00	1.00	4.34	0.24	
		Q183088	253.00	254.00	1.00	3.63	0.32	
		Q183089	254.00	255.00	1.00	3.68	0.27	
		Q183090	255.00	256.00	1.00	3.3	0.36	
		Q183092	256.00	257.00	1.00	3.74	0.29	
		Q183093	257.00	258.00	1.00	3.76	0.29	
		Q183094	258.00	259.00	1.00	3.23	0.28	
		Q183096	259.00	260.00	1.00	3.03	0.34	
		Q183097	260.00	261.00	1.00	1.7	0.29	
		Q183098	261.00	262.00	1.00	2.41	0.3	
		Q183099	262.00	263.00	1.00	2.76	0.3	2.65
		Q183100	263.00	264.00	1.00	3.4	0.34	2.65
		Q183101	264.00	265.00	1.00	1.91	0.24	2.65
		Q183102	265.00	266.00	1.00	1.92	0.33	2.66
		Q183103	266.00	267.00	1.00	3.01	0.26	2.65
		Q183105	267.00	268.00	1.00	3.09	0.26	
		Q183106	268.00	269.00	1.00	2.38	0.15	
		Q183107	269.00	270.00	1.00	3.83	0.26	
		Q183108	270.00	271.00	1.00	3.59	0.24	
		Q183109	271.00	272.00	1.00	3.54	0.24	
		Q183110	272.00	273.00	1.00	2.77	0.28	
		Q183112	273.00	274.00	1.00	2.29	0.25	
		Q183113	274.00	275.00	1.00	3.87	0.25	
		Q183114	275.00	275.90	0.90	2.86	0.27	
		Q183116	275.90	276.75	0.85	0.71	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
276.75	282.38	**ID Intermediate Dyke** Dark grey, fine grained, massive intermediate to felsic dyke. Intruded by numerous thin 10-20cm greenish-grey, medium grained gabbro dykelets. No visible graphite. Lower contact sharp at 90 dca.	Q183117	276.75	277.90	1.15	0.11	0.03	
			Q183118	277.90	279.00	1.10	0.05	0.01	
			Q183119	279.00	280.00	1.00	0.01	0.03	
			Q183120	280.00	280.80	0.80	0.01	0.09	
			Q183121	280.80	281.55	0.75	0.05	0.01	
			Q183122	281.55	282.38	0.83	0.05	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
282.38	306.15	**GRPBX Graphitic Breccia** Dark grey, matrix supported graphitic breccia. Subangular syenite fragments, 1-5cm, in medium to dark grey fine grained matrix. Moderate conductivity. Very hard. Fragment size increases in the bottom half of this interval with subrounded clast up to 10cm. Massive graphite clast (5-10cm) at 293.7m. Lower contact sharp at 60 dca.	Q183123	282.38	283.30	0.92	2.89	0.22	
			Q183125	283.30	284.20	0.90	3.9	0.36	
			Q183126	284.20	285.10	0.90	1.94	0.27	
			Q183127	285.10	286.00	0.90	1.65	0.25	
			Q183128	286.00	287.00	1.00	2.53	0.32	
			Q183129	287.00	288.00	1.00	1.99	0.33	
			Q183130	288.00	289.00	1.00	2.74	0.37	
			Q183132	289.00	290.00	1.00	3.25	0.51	
			Q183133	290.00	291.00	1.00	2.45	0.32	
			Q183134	291.00	292.00	1.00	3.13	0.33	
			Q183136	292.00	293.00	1.00	2.8	0.34	
			Q183137	293.00	294.00	1.00	5.24	0.27	
			Q183138	294.00	295.00	1.00	2.27	0.26	
			Q183139	295.00	296.00	1.00	2.33	0.27	
			Q183140	296.00	297.00	1.00	3.68	0.35	
			Q183141	297.00	298.00	1.00	5.24	0.41	
			Q183142	298.00	299.00	1.00	6.22	0.42	
			Q183143	299.00	300.00	1.00	5.4	0.28	
			Q183145	300.00	301.00	1.00	0.46	0.12	
			Q183146	301.00	302.00	1.00	1.5	0.87	
			Q183147	302.00	303.00	1.00	1.82	0.31	
			Q183148	303.00	304.00	1.00	1.41	0.34	
			Q183149	304.00	305.00	1.00	2.83	0.22	
			Q183150	305.00	306.15	1.15	0.64	0.31	
306.15	308.35	**ID Intermediate Dyke** Medium grey, fine grained, massive, intermediate to felsic dyke. Hard. No visible graphite. Lower contact sharp at 60 dca.	Q183152	306.15	307.25	1.10	0.05	0.02	
			Q183153	307.25	308.35	1.10	0.07	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
308.35	313.30	**SYEN Syenite** Medium grey to pinkish-grey, fine to medium grained, massive syenite. No visible graphite. Lower contact sharp at 80 dca.	Q183154	308.35	309.20	0.85	0.28	0.24	
			Q183156	309.20	310.00	0.80	0.17	0.15	
			Q183157	310.00	311.10	1.10	0.08	0.07	
			Q183158	311.10	312.20	1.10	0.27	0.19	
			Q183159	312.20	313.30	1.10	0.22	0.28	
313.30	338.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". Fairly uniform unit. Moderate hardness.	Q183160	313.30	314.30	1.00	0.09	0.01	
			Q183161	314.30	315.12	0.82	0.07	0.01	
			Q183162	315.12	316.00	0.88	0.07	0.02	
			Q183163	316.00	317.00	1.00	0.07	0.02	
			Q183165	317.00	318.00	1.00	0.08	0.02	
			Q183166	318.00	319.00	1.00	0.08	0.02	
			Q183167	319.00	320.00	1.00	0.08	0.005	
			Q183168	320.00	321.00	1.00	0.05	0.005	
			Q183169	321.00	322.50	1.50	0.07	0.005	
			Q183170	322.50	324.00	1.50	0.06	0.01	
			Q183172	324.00	325.50	1.50	0.03	0.01	
			Q183173	325.50	327.00	1.50	0.04	0.01	
			Q183174	327.00	328.50	1.50	0.03	0.02	
			Q183176	328.50	330.00	1.50	0.02	0.04	
			Q183177	330.00	331.50	1.50	0.04	0.05	
			Q183178	331.50	333.00	1.50	0.03	0.02	
			Q183179	333.00	334.50	1.50	0.03	0.02	
			Q183180	334.50	336.00	1.50	0.04	0.01	
			Q183181	336.00	337.00	1.00	0.04	0.03	
			Q183182	337.00	338.00	1.00	0.04	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
338.00	341.67	**SYEN Syenite** Pinkish-grey, fine to medium grained, massive syenite. No visible graphite. Upper contact at 65 dca. Lower contact at 55 dca.	Q183183	338.00	339.00	1.00	0.08	0.14	
			Q183185	339.00	339.80	0.80	0.04	0.07	
			Q183186	339.80	340.70	0.90	0.05	0.03	
			Q183187	340.70	341.67	0.97	0.06	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
341.67	375.95	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". Fairly uniform unit. Moderate hardness. Blocky core from 351 to 352.5m. Moderate fracturing from 355.5 to 356.1m.	Q183188	341.67	343.00	1.33	0.09	0.1	
			Q183189	343.00	344.00	1.00	0.08	0.06	
			Q183190	344.00	345.00	1.00	0.06	0.07	
			Q183192	345.00	346.50	1.50	0.07	0.03	
			Q183193	346.50	348.00	1.50	0.05	0.01	
			Q183194	348.00	349.50	1.50	0.05	0.02	
			Q183196	349.50	351.00	1.50	0.08	0.02	
			Q183197	351.00	352.50	1.50	0.15	0.03	
			Q183198	352.50	354.00	1.50	0.08	0.03	
			Q183199	354.00	355.20	1.20	0.08	0.02	
			Q183200	355.20	356.10	0.90	0.13	0.05	
			Q183201	356.10	357.00	0.90	0.12	0.06	
			Q183202	357.00	358.50	1.50	0.1	0.01	
			Q183203	358.50	360.00	1.50	0.06	0.01	
			Q183205	360.00	361.50	1.50	0.08	0.02	
			Q183206	361.50	363.00	1.50	0.08	0.005	
			Q183207	363.00	364.00	1.00	0.06	0.02	
			Q183208	364.00	365.00	1.00	0.06	0.02	
			Q183209	365.00	366.00	1.00	0.05	0.01	
			Q183210	366.00	367.50	1.50	0.06	0.005	
			Q183212	367.50	369.00	1.50	0.05	0.02	
			Q183213	369.00	370.50	1.50	0.05	0.03	
			Q183214	370.50	372.00	1.50	0.05	0.01	
			Q183216	372.00	373.50	1.50	0.07	0.06	
			Q183217	373.50	375.00	1.50	0.05	0.01	
			Q183218	375.00	375.95	0.95	0.04	0.005	
375.95	377.58	**ID Intermediate Dyke** Medium to dark grey, fine grained, massive intermediate dyke. Upper contact sharp at 30 dca. Lower contact sharp at 45 dca.	Q183219	375.95	376.80	0.85	0.04	0.01	
			Q183220	376.80	377.58	0.78	0.04	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
377.58	387.30	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". Fairly uniform unit. Moderate hardness.	Q183221	377.58	378.40	0.82	0.04	0.05	
			Q183222	378.40	379.25	0.85	0.04	0.02	
			Q183223	379.25	379.73	0.48	0.06	0.005	
			Q183225	379.73	381.00	1.27	0.15	0.02	
			Q183226	381.00	382.50	1.50	0.07	0.02	
			Q183227	382.50	384.00	1.50	0.06	0.02	
			Q183228	384.00	385.50	1.50	0.06	0.01	
			Q183229	385.50	386.50	1.00	0.08	0.05	
			Q183230	386.50	387.30	0.80	0.07	0.26	
387.30	391.82	**SYEN Syenite** Medium grey to pinkish-grey, medium to coarse grained, massive syenite (?) No visible graphite. Lower contact sharp at 85 dca. Two 5-10cm fine grained, massive, dark grey felsic dykes at the lower contact.	Q183232	387.30	388.69	1.39	0.22	0.14	
			Q183233	388.69	389.60	0.91	0.08	0.14	
			Q183234	389.60	390.60	1.00	0.12	0.27	
			Q183236	390.60	391.82	1.22	0.07	0.07	
391.82	400.35	**SYENSL Syenite Sill (unmineralized)** Medium to grey to greenish-grey, fine grained, massive, "gabbroic texture". Hard. Lower contact sharp at 45 dca.	Q183237	391.82	393.00	1.18	0.07	0.03	
			Q183238	393.00	394.50	1.50	0.06	0.08	
			Q183239	394.50	396.00	1.50	0.06	0.02	
			Q183240	396.00	397.50	1.50	0.06	0.01	
			Q183241	397.50	399.00	1.50	0.05	0.02	
			Q183242	399.00	400.35	1.35	0.03	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
400.35 -	403.07	**SYEN Syenite** Pinkish-grey, massive, fine to medium grained syenite. Could be a diorite(?) Intruded by two 10cm dark grey, fine grained felsic dykes at upper contact and at 402.2. Lower contact sharp at 45 dca.	Q183243	400.35	401.40	1.05	0.09	0.06	
			Q183245	401.40	402.25	0.85	0.08	0.14	
			Q183246	402.25	403.07	0.82	0.08	0.48	
403.07 -	407.38	**FD Felsic Dyke** Medium grey, fine grained, massive felsic to intermediate dyke. Hard. Cross-cut by minor gabbroic sections from 404 to 405.5m. Lower contact sharp at 50 dca.	Q183247	403.07	404.00	0.93	0.1	0.03	
			Q183248	404.00	405.00	1.00	0.06	0.04	
			Q183249	405.00	406.00	1.00	0.01	0.06	
			Q183250	406.00	407.38	1.38	0.01	0.02	
407.38 -	408.60	**SYENSL Syenite Sill (unmineralized)** Light grey to greenish-grey, massive, medium to coarse grained, "gabbroic texture". Lower contact sharp at 60 dca.	Q183252	407.38	408.60	1.22	0.11	0.14	
408.60 -	409.69	**FP Feldspar Porphyry** Medium to dark grey feldspar porphyry with large 1-10mm subangular to subhedral pink feldspar phenocrysts in fine grained matrix. Lower contact sharp at 75 dca.	Q183253	408.60	409.69	1.09	0.13	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
409.69	417.30	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, fine to medium grained, massive syenite. Weak to moderate graphite overprinting as fracture filling graphite veinlets from 411.9 to 413m; from 414. 4 to 415.1m.	Q183254	409.69	410.80	1.11	0.28	0.25	
			Q183256	410.80	411.90	1.10	0.61	0.13	
			Q183257	411.90	413.00	1.10	2.6	0.32	
			Q183258	413.00	414.00	1.00	0.99	0.23	
			Q183259	414.00	415.10	1.10	2.06	0.32	
			Q183260	415.10	416.20	1.10	1.3	0.16	
			Q183261	416.20	417.30	1.10	1.09	0.08	
417.30	423.85	**GRPBX Graphitic Breccia** Medium grey to light pink massive syenite with up to 35% graphitic breccia sections with good graphite in the matrix and angular syenite fragments fro 417.3 to 417.6m, from 419.1 to 421 and from 422.75 to 423.6m. Lower contact sharp at 55 dca.	Q183262	417.30	418.20	0.90	2.05	0.12	
			Q183263	418.20	419.10	0.90	0.46	0.07	
			Q183265	419.10	420.00	0.90	3.78	0.14	2.66
			Q183266	420.00	421.00	1.00	4.15	0.15	2.63
			Q183267	421.00	422.00	1.00	0.29	0.07	2.61
			Q183268	422.00	423.00	1.00	0.71	0.09	2.63
			Q183269	423.00	423.85	0.85	1.79	0.39	2.62
423.85	426.10	**MD Mafic Dyke** Greenish-grey, fine grained, massive mafic to intermediate dyke. Feldspar porphyritic. 1-4mm subrounded white feldspar phenocrysts. Lower contact sharp at 40 dca.	Q183270	423.85	425.00	1.15	0.25	0.2	
			Q183272	425.00	426.10	1.10	1	0.16	
426.10	427.95	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Moderate graphite as fracture filling veinlets and minor breccia near the upper contact. Lower contact sharp at 65 dca.	Q183273	426.10	427.00	0.90	0.87	0.24	
			Q183274	427.00	427.95	0.95	1.53	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
427.95	431.20	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture".	Q183276	427.95	429.00	1.05	0.04	0.06	
			Q183277	429.00	430.10	1.10	0.03	0.08	
			Q183278	430.10	431.20	1.10	0.01	0.02	
431.20	432.18	**ID Intermediate Dyke** Medium grey, fine grain massive intermediate dyke. Upper contact sharp at 40 dca. Fracture healing gabbroic injections 5-20mm. Lower contact sharp at 50 dca.	Q183279	431.20	432.18	0.98	0.04	0.05	
432.18	439.32	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey to light pink, medium grained syenite. Weak to moderate graphite overprinting a fracture filling graphite veinlets from 431.1 to 436.1m. Lower contact sharp at 60 dca.	Q183280	432.18	433.10	0.92	0.24	0.18	
			Q183281	433.10	434.00	0.90	0.47	0.2	
			Q183282	434.00	435.00	1.00	0.96	0.13	
			Q183283	435.00	436.00	1.00	0.31	0.16	
			Q183285	436.00	437.10	1.10	0.38	0.11	
			Q183286	437.10	438.20	1.10	0.2	0.11	
			Q183287	438.20	439.32	1.12	0.13	0.12	
439.32	443.33	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite. Matrix supported breccia. Dark grey, fine grained graphite in the matrix. Angular to sub-angular syenite fragments 1-10cm. Odd pyrite bleb. Good graphite content. Lower contact sharp at 40 dca.	Q183288	439.32	440.30	0.98	3.96	0.28	
			Q183289	440.30	441.30	1.00	2.34	0.3	
			Q183290	441.30	442.30	1.00	3.47	0.26	
			Q183292	442.30	443.33	1.03	3.83	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
443.33	444.45	**SYEN Syenite** Light pink to medium grey, medium to coarse grained, massive syenite. No visible graphite. Lower contact sharp at 40 dca.	Q183293	443.33	444.45	1.12	0.08	0.08	
444.45	454.85	**SYENSL Syenite Sill (unmineralized)** Medium grey, fine to medium grained, massive, "gabbroic texture". Hard. Fairly uniform unit. Lower contact sharp at 40 dca.	Q183294	444.45	445.50	1.05	0.04	0.04	
			Q183296	445.50	447.00	1.50	0.02	0.01	
			Q183297	447.00	448.50	1.50	0.02	0.005	
			Q183298	448.50	450.00	1.50	0.01	0.03	
			Q183299	450.00	451.50	1.50	0.01	0.005	
			Q183300	451.50	453.00	1.50	0.01	0.005	
			Q183301	453.00	454.00	1.00	0.08	0.08	
			Q183302	454.00	454.85	0.85	0.16	0.19	
454.85	466.37	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish grey, medium grained massive syenite. Weak graphite overprinting as fracture filling graphite veinlets from 457 to 458m and from 464.3 to 465m. Lower contact sharp at 45 dca.	Q183303	454.85	456.00	1.15	0.26	0.18	
			Q183305	456.00	457.00	1.00	0.08	0.17	
			Q183306	457.00	458.00	1.00	0.13	0.13	
			Q183307	458.00	459.00	1.00	0.06	0.2	
			Q183308	459.00	460.00	1.00	0.12	0.24	
			Q183309	460.00	461.00	1.00	0.1	0.12	
			Q183310	461.00	461.85	0.85	0.18	0.25	
			Q183312	461.85	462.67	0.82	0.05	0.15	
			Q183313	462.67	463.45	0.78	0.04	0.03	
			Q183314	463.45	464.25	0.80	0.06	0.04	
			Q183316	464.25	465.30	1.05	0.17	0.16	
			Q183317	465.30	466.37	1.07	0.12	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
466.37	468.69	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. Moderate hardness. Lower contact sharp at 45 dca.	Q183318	466.37	467.50	1.13	0.08	0.3	
			Q183319	467.50	468.69	1.19	0.06	0.09	
468.69	474.44	**SYEN Syenite** Light to medium grey to light pink, fine to medium grained, massive syenite. No visible graphite. Lower contact sharp at 60 dca.	Q183320	468.69	469.80	1.11	0.14	0.21	
			Q183321	469.80	470.80	1.00	0.84	0.24	
			Q183322	470.80	471.80	1.00	0.23	0.05	
			Q183323	471.80	472.80	1.00	0.15	0.08	
			Q183325	472.80	473.70	0.90	0.14	0.1	
			Q183326	473.70	474.44	0.74	0.02	0.06	
474.44	475.15	**MD Mafic Dyke** Brownish-grey, fine grained, feldspar porphyritic mafic to intermediate dyke. Lower contact sharp at 45 dca.	Q183327	474.44	475.15	0.71	0.1	0.07	
475.15	480.08	**ID Intermediate Dyke** Medium grey, fine grained massive intermediate dyke. Fracture filling gabbroic injections from 476.1 to 479.4m. Lower contact sharp at 45 dca.	Q183328	475.15	476.10	0.95	0.02	0.01	
			Q183329	476.10	477.10	1.00	0.05	0.04	
			Q183330	477.10	478.10	1.00	0.04	0.01	
			Q183332	478.10	479.10	1.00	0.01	0.01	
			Q183333	479.10	480.08	0.98	0.04	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
480.08	486.35	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, fine to medium grained, massive, "gabbroic texture". Lower contact sharp at 45 dca.	Q183334	480.08	481.00	0.92	0.03	0.07	
			Q183336	481.00	482.50	1.50	0.01	0.21	
			Q183337	482.50	484.00	1.50	0.01	0.04	
			Q183338	484.00	485.20	1.20	0.01	0.11	
			Q183339	485.20	486.35	1.15	0.05	0.06	
486.35	508.67	**SYEN Syenite** Light grey to pinkish-grey, massive, medium to coarse grained syenite. No visible graphite. Lower contact sharp at 75 dca.	Q183340	486.35	487.30	0.95	0.1	0.16	
			Q183341	487.30	488.20	0.90	0.04	0.23	
			Q183342	488.20	489.00	0.80	0.1	0.21	
			Q183343	489.00	490.00	1.00	0.06	0.2	
			Q183345	490.00	491.00	1.00	0.24	0.2	
			Q183346	491.00	492.00	1.00	0.11	0.16	
			Q183347	492.00	493.00	1.00	0.09	0.19	
			Q183348	493.00	494.00	1.00	0.08	0.16	
			Q183349	494.00	495.00	1.00	0.08	0.1	
			Q183350	495.00	496.00	1.00	0.09	0.14	
			Q183352	496.00	497.00	1.00	0.11	0.27	
			Q183353	497.00	498.00	1.00	0.05	0.2	
			Q183354	498.00	499.00	1.00	0.02	0.13	
			Q183356	499.00	500.00	1.00	0.03	0.08	
			Q183357	500.00	501.00	1.00	0.02	0.1	
			Q183358	501.00	502.00	1.00	0.09	0.19	
			Q183359	502.00	503.00	1.00	0.04	0.16	
			Q183360	503.00	504.00	1.00	0.04	0.15	
			Q183361	504.00	505.00	1.00	0.05	0.12	
			Q183362	505.00	506.00	1.00	0.04	0.11	
			Q183363	506.00	507.00	1.00	0.19	0.24	
			Q183365	507.00	508.00	1.00	0.1	0.17	
			Q183366	508.00	508.67	0.67	0.08	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
508.67	515.63	**FP Feldspar Porphyry** Dark grey to brownish-grey feldspar porphyry. 1-5mm subrounded milky white feldspar phenocrysts in a dark grey fine grained matrix with fine grained biotite. Weak foliation. 511.4 to 511. 65m fine grained gabbroic dyke at 45 dca. From 512.8 to 514m greenish-grey, medium grained massive gabbro. Both contacts at 80 dca.	Q183367	508.67	509.80	1.13	0.63	0.1	
			Q183368	509.80	511.00	1.20	0.45	0.13	
			Q183369	511.00	512.00	1.00	0.23	0.27	
			Q183370	512.00	513.00	1.00	0.46	0.15	
			Q183372	513.00	514.00	1.00	0.09	0.26	
			Q183373	514.00	514.80	0.80	0.29	0.09	
			Q183374	514.80	515.63	0.83	0.07	0.09	
515.63	530.60	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, fine to medium grained, massive, "gabbroic texture". Salt and pepper texture. Fairly uniform unit. EOH 530.6m	Q183376	515.63	517.00	1.37	0.06	0.04	
			Q183377	517.00	518.00	1.00	0.07	0.03	
			Q183378	518.00	519.00	1.00	0.05	0.02	
			Q183379	519.00	520.50	1.50	0.09	0.05	
			Q183380	520.50	522.00	1.50	0.03	0.05	
			Q183381	522.00	523.50	1.50	0.04	0.03	
			Q183382	523.50	525.00	1.50	0.06	0.06	
			Q183383	525.00	526.50	1.50	0.05	0.08	
			Q183385	526.50	528.00	1.50	0.07	0.04	
			Q183386	528.00	529.50	1.50	0.01	0.13	
			Q183387	529.50	530.60	1.10	0.01	0.09	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	522.00	08/08/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545646.4	682749.8			Reflex APS		14/08/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	123.60	51.30		-50.00	Chibougamau Diamond Drilling		14/08/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	456	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited		

Purpose	*Results*	*Comments*
Test East pipe from the southwest.	This hole intersected three graphite mineralized zones composed of graphitic breccia and graphite overprinted syenite from 290.43 to 336.00m for 44.57m, from 343.95 to 360.49m for 16.54m and from 378.80m to 389.22m for 10.42m. The assays from 184.00m to 361.53m averaged 2.15% Cg over 177.53m; within this intersection a higher grade graphite zone from 279.00m to 361.53m averaged 4.35% Cg over 82.53m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			58.1	49.1	-50.5	-50.5	☑	Reflex EZ	56275	
75.00			58.3	49.3	-50.6	-50.6	☑	Reflex EZ	56248	
78.00			58.6	49.6	-50.5	-50.5	☑	Reflex EZ	56171	
81.00			59	50	-50.6	-50.6	☑	Reflex EZ	56247	
84.00			58.5	49.5	-50.5	-50.5	☑	Reflex EZ	56219	
87.00			58.4	49.4	-50.5	-50.5	☑	Reflex EZ	56176	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
90.00			58.2	49.2	-50.4	-50.4	☑	Reflex EZ	56166	
93.00			58.6	49.6	-50.5	-50.5	☑	Reflex EZ	56237	
96.00			58.9	49.9	-50.6	-50.6	☑	Reflex EZ	56174	
99.00			58.7	49.7	-50.5	-50.5	☑	Reflex EZ	56194	
102.00			58.9	49.9	-50.5	-50.5	☑	Reflex EZ	56112	
105.00			59.5	50.5	-50.6	-50.6	☑	Reflex EZ	56162	
108.00			59.9	50.9	-50.8	-50.8	☑	Reflex EZ	56182	
111.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56181	
114.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56212	
117.00			60.2	51.2	-50.8	-50.8	☑	Reflex EZ	56153	
120.00			60	51	-50.6	-50.6	☑	Reflex EZ	56239	
123.00			58.5	49.5	-50.2	-50.2	☑	Reflex EZ	56135	
126.00			58.4	49.4	-50.2	-50.2	☑	Reflex EZ	56137	
129.00			58.8	49.8	-50.5	-50.5	☑	Reflex EZ	56131	
132.00			59.4	50.4	-50.5	-50.5	☑	Reflex EZ	56112	
135.00			59.4	50.4	-50.6	-50.6	☑	Reflex EZ	56160	
138.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56175	
141.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56198	
144.00			59.5	50.5	-50.6	-50.6	☑	Reflex EZ	56186	
147.00			59.4	50.4	-50.5	-50.5	☑	Reflex EZ	56170	
150.00			59.1	50.1	-50.5	-50.5	☑	Reflex EZ	56124	
153.00			59.3	50.3	-50.5	-50.5	☑	Reflex EZ	56136	
156.00			59	50	-50.4	-50.4	☑	Reflex EZ	56119	
159.00			58.5	49.5	-50.3	-50.3	☑	Reflex EZ	56132	
162.00			59.4	50.4	-50.5	-50.5	☑	Reflex EZ	56079	
165.00			59.9	50.9	-50.5	-50.5	☑	Reflex EZ	56245	
168.00			58.8	49.8	-50.3	-50.3	☑	Reflex EZ	56189	
171.00			58.7	49.7	-50.2	-50.2	☑	Reflex EZ	56143	
174.00			60.2	51.2	-50.4	-50.4	☑	Reflex EZ	56230	
177.00			60	51	-50.4	-50.4	☑	Reflex EZ	56250	
180.00			59.7	50.7	-50.3	-50.3	☑	Reflex EZ	56069	
183.00			60	51	-50.3	-50.3	☑	Reflex EZ	56288	
186.00			59	50	-50.3	-50.3	☑	Reflex EZ	56315	
189.00			59.3	50.3	-50.3	-50.3	☑	Reflex EZ	56155	
192.00			60.1	51.1	-50.4	-50.4	☑	Reflex EZ	56143	
195.00			60.3	51.3	-50.3	-50.3	☑	Reflex EZ	56231	
198.00			59.5	50.5	-50.2	-50.2	☑	Reflex EZ	56124	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
201.00			59.2	50.2	-50.1	-50.1	☑	Reflex EZ	56156	
204.00			59.5	50.5	-50.1	-50.1	☑	Reflex EZ	56116	
207.00			59.6	50.6	-50.3	-50.3	☑	Reflex EZ	56117	
210.00			59.6	50.6	-50.2	-50.2	☑	Reflex EZ	56132	
213.00			60.5	51.5	-50.2	-50.2	☑	Reflex EZ	56181	
216.00			60.3	51.3	-50.2	-50.2	☑	Reflex EZ	56230	
219.00			60.2	51.2	-50.3	-50.3	☑	Reflex EZ	56194	
222.00			59.7	50.7	-50.2	-50.2	☑	Reflex EZ	56130	
225.00			59.8	50.8	-50.2	-50.2	☑	Reflex EZ	55998	
228.00			60.6	51.6	-50.4	-50.4	☑	Reflex EZ	56214	
231.00			59.6	50.6	-50.2	-50.2	☑	Reflex EZ	56075	
234.00			61.2	52.2	-50.5	-50.5	☑	Reflex EZ	56256	
237.00			60.7	51.7	-50.5	-50.5	☑	Reflex EZ	56207	
240.00			60.8	51.8	-50.4	-50.4	☑	Reflex EZ	56242	
243.00			60.7	51.7	-50.5	-50.5	☑	Reflex EZ	56253	
249.00			59.8	50.8	-50.3	-50.3	☑	Reflex EZ	56034	
252.00			61	52	-50.5	-50.5	☑	Reflex EZ	56279	
255.00			60.9	51.9	-50.5	-50.5	☑	Reflex EZ	56191	
258.00			60.9	51.9	-50.5	-50.5	☑	Reflex EZ	56192	
261.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56198	
264.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56193	
267.00			59.4	50.4	-50.3	-50.3	☑	Reflex EZ	56185	
270.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56149	
273.00			60.1	51.1	-50.5	-50.5	☑	Reflex EZ	56177	
276.00			60	51	-50.5	-50.5	☑	Reflex EZ	56176	
279.00			59.6	50.6	-50.4	-50.4	☑	Reflex EZ	56154	
285.00			60.3	51.3	-50.4	-50.4	☑	Reflex EZ	56177	
288.00			60.4	51.4	-50.5	-50.5	☑	Reflex EZ	56205	
291.00			60.8	51.8	-50.7	-50.7	☑	Reflex EZ	56184	
294.00			60.3	51.3	-50.6	-50.6	☑	Reflex EZ	56149	
297.00			59.9	50.9	-50.5	-50.5	☑	Reflex EZ	56167	
300.00			60.8	51.8	-50.7	-50.7	☑	Reflex EZ	56189	
303.00			60	51	-50.5	-50.5	☑	Reflex EZ	56113	
306.00			60.2	51.2	-50.7	-50.7	☑	Reflex EZ	56155	
309.00			60	51	-50.6	-50.6	☑	Reflex EZ	56142	
312.00			60.2	51.2	-50.6	-50.6	☑	Reflex EZ	56208	
315.00			60.3	51.3	-50.7	-50.7	☑	Reflex EZ	56147	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
318.00			60.9	51.9	-50.8	-50.8	☑	Reflex EZ	56226	
321.00			59.7	50.7	-50.6	-50.6	☑	Reflex EZ	56135	
324.00			60.9	51.9	-50.7	-50.7	☑	Reflex EZ	56207	
327.00			60.2	51.2	-50.6	-50.6	☑	Reflex EZ	56218	
330.00			60.3	51.3	-50.8	-50.8	☑	Reflex EZ	56205	
333.00			59.8	50.8	-50.6	-50.6	☑	Reflex EZ	56197	
336.00			60.2	51.2	-50.6	-50.6	☑	Reflex EZ	56131	
339.00			60.6	51.6	-50.7	-50.7	☑	Reflex EZ	56255	
342.00			60.3	51.3	-50.7	-50.7	☑	Reflex EZ	56042	
345.00			60.4	51.4	-50.6	-50.6	☑	Reflex EZ	56128	
348.00			60.7	51.7	-50.8	-50.8	☑	Reflex EZ	56229	
351.00			59.6	50.6	-50.6	-50.6	☑	Reflex EZ	56174	
354.00			59.8	50.8	-50.6	-50.6	☑	Reflex EZ	56384	
357.00			60.3	51.3	-50.6	-50.6	☑	Reflex EZ	56217	
360.00			60.8	51.8	-50.6	-50.6	☑	Reflex EZ	56240	
366.00			60.9	51.9	-50.6	-50.6	☑	Reflex EZ	56142	
369.00			60.6	51.6	-50.5	-50.5	☑	Reflex EZ	56146	
372.00			60.1	51.1	-50.4	-50.4	☑	Reflex EZ	56153	
375.00			59.2	50.2	-50.3	-50.3	☑	Reflex EZ	56107	
378.00			60.2	51.2	-50.4	-50.4	☑	Reflex EZ	56140	
381.00			60.1	51.1	-50.4	-50.4	☑	Reflex EZ	56279	
387.00			60.4	51.4	-50.5	-50.5	☑	Reflex EZ	56077	
390.00			59.8	50.8	-50.3	-50.3	☑	Reflex EZ	56129	
393.00			59.9	50.9	-50.4	-50.4	☑	Reflex EZ	56311	
396.00			60.7	51.7	-50.5	-50.5	☑	Reflex EZ	56226	
399.00			60.1	51.1	-50.3	-50.3	☑	Reflex EZ	56160	
402.00			60.4	51.4	-50.4	-50.4	☑	Reflex EZ	56250	
405.00			59.5	50.5	-50.3	-50.3	☑	Reflex EZ	56268	
408.00			60.6	51.6	-50.4	-50.4	☑	Reflex EZ	56315	
411.00			60.6	51.6	-50.5	-50.5	☑	Reflex EZ	56137	
414.00			61	52	-50.6	-50.6	☑	Reflex EZ	56082	
417.00			59.9	50.9	-50.4	-50.4	☑	Reflex EZ	56134	
420.00			60	51	-50.4	-50.4	☑	Reflex EZ	55982	
423.00			60.8	51.8	-50.5	-50.5	☑	Reflex EZ	56086	
426.00			59.9	50.9	-50.3	-50.3	☑	Reflex EZ	56020	
429.00			60.6	51.6	-50.5	-50.5	☑	Reflex EZ	56083	
432.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56239	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
435.00			60.6	51.6	-50.4	-50.4	☑	Reflex EZ	56050	
438.00			59.6	50.6	-50.3	-50.3	☑	Reflex EZ	56134	
441.00			60.6	51.6	-50.5	-50.5	☑	Reflex EZ	56070	
444.00			60.3	51.3	-50.4	-50.4	☑	Reflex EZ	56032	
447.00			60	51	-50.4	-50.4	☑	Reflex EZ	56054	
450.00			60.7	51.7	-50.7	-50.7	☑	Reflex EZ	56199	
453.00			59.6	50.6	-50.5	-50.5	☑	Reflex EZ	55935	
456.00			61.3	52.3	-50.6	-50.6	☑	Reflex EZ	56045	
459.00			60.1	51.1	-50.5	-50.5	☑	Reflex EZ	56181	
462.00			60.4	51.4	-50.8	-50.8	☑	Reflex EZ	56194	
465.00			59.4	50.4	-50.5	-50.5	☑	Reflex EZ	56140	
468.00			60.5	51.5	-50.6	-50.6	☑	Reflex EZ	56424	
471.00			60.8	51.8	-50.7	-50.7	☑	Reflex EZ	56257	
474.00			59.9	50.9	-50.6	-50.6	☑	Reflex EZ	56299	
477.00			60.7	51.7	-50.6	-50.6	☑	Reflex EZ	56393	
480.00			60.7	51.7	-50.7	-50.7	☑	Reflex EZ	56449	
483.00			60.2	51.2	-50.6	-50.6	☑	Reflex EZ	56309	
486.00			60.7	51.7	-50.6	-50.6	☑	Reflex EZ	56336	
489.00			60.5	51.5	-50.7	-50.7	☑	Reflex EZ	56314	
492.00			60.2	51.2	-50.5	-50.5	☑	Reflex EZ	56265	
495.00			61.5	52.5	-50.6	-50.6	☑	Reflex EZ	56499	
498.00			61.4	52.4	-50.7	-50.7	☑	Reflex EZ	56266	
501.00			60	51	-50.5	-50.5	☑	Reflex EZ	56258	
504.00			61.4	52.4	-50.5	-50.5	☑	Reflex EZ	56116	
507.00			61.1	52.1	-50.6	-50.6	☑	Reflex EZ	56558	
510.00			59.4	50.4	-50.4	-50.4	☑	Reflex EZ	56275	
513.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56258	
516.00			60.5	51.5	-50.5	-50.5	☑	Reflex EZ	56142	
519.00			60.1	51.1	-50.4	-50.4	☑	Reflex EZ	56267	
522.00			61.3	52.3	-50.4	-50.4	☑	Reflex EZ	56876	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	61.80	**OB Overburden** Unknown overburden.							
61.80	63.90	**SED Sediment** White to beige to greenish-beige vuggy limestone.							
63.90	84.55	**SYEN Syenite** Reddish-brown to medium grey, massive medium grained syenite. Paleo-weathered friable core from 63.9 to 65.4m and from 68.2 to 69m. From 70.7 to 71.05m dark green paleo weathered mafic dyke.	Q183388	66.00	67.00	1.00	0.01	0.04	
			Q183389	67.00	68.00	1.00	0.11	0.04	
			Q183390	68.00	69.00	1.00	0.06	0.04	
			Q183392	69.00	70.00	1.00	0.12	0.03	
			Q183393	70.00	71.00	1.00	0.09	0.03	
			Q183394	71.00	72.00	1.00	0.15	0.01	
			Q183396	72.00	73.00	1.00	0.06	0.03	
			Q183397	73.00	74.00	1.00	0.08	0.05	
			Q183398	74.00	75.00	1.00	0.03	0.1	
			Q183399	75.00	76.00	1.00	0.03	0.01	
			Q183400	76.00	77.00	1.00	0.1	0.05	
			Q183401	77.00	78.00	1.00	0.06	0.03	
			Q183402	78.00	79.00	1.00	0.04	0.02	
			Q183403	79.00	80.00	1.00	0.08	0.02	
			Q183405	80.00	81.00	1.00	0.07	0.02	
			Q183406	81.00	82.00	1.00	0.07	0.02	
			Q183407	82.00	83.00	1.00	0.17	0.02	
			Q183408	83.00	83.80	0.80	0.09	0.02	
			Q183409	83.80	84.55	0.75	0.04	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
84.55	99.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-pink massive syenite. Weak to locally moderate graphite overprint as fracture filling graphite veinlets from 85 to 87.12m and from 95.8 to 98.2m.	Q183410	84.55	85.40	0.85	0.19	0.02	
			Q183412	85.40	86.20	0.80	0.2	0.02	
			Q183413	86.20	87.12	0.92	1.02	0.02	
			Q183414	87.12	88.22	1.10	1.2	0.02	
			Q183416	88.22	89.10	0.88	0.37	0.13	
			Q183417	89.10	90.00	0.90	0.06	0.06	
			Q183418	90.00	91.00	1.00	0.06	0.05	
			Q183419	91.00	92.00	1.00	0.1	0.03	
			Q183420	92.00	93.00	1.00	0.11	0.02	
			Q183421	93.00	94.00	1.00	0.07	0.03	
			Q183422	94.00	95.00	1.00	0.1	0.03	
			Q183423	95.00	96.00	1.00	0.15	0.11	
			Q183425	96.00	97.00	1.00	0.16	0.15	
			Q183426	97.00	98.00	1.00	0.38	0.04	
			Q183427	98.00	99.00	1.00	1.18	0.05	
99.00	106.00	**SYEN Syenite** Reddish-grey, medium grained, massive syenite. Moderate fracturing, blocky core from 102 to 106m. No visible graphite.	Q183428	99.00	100.00	1.00	0.07	0.04	
			Q183429	100.00	101.00	1.00	0.01	0.05	
			Q183430	101.00	102.00	1.00	0.02	0.03	
			Q183432	102.00	103.00	1.00	0.03	0.06	
			Q183433	103.00	104.00	1.00	0.05	0.08	
			Q183434	104.00	105.00	1.00	0.02	0.03	
			Q183436	105.00	106.00	1.00	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
106.00 -	109.00	**SYENOP Syenite with Graphitic Overprinting** Reddish-grey, medium grained, massive syenite. Weak graphite overprinting as fracture filling veinlets from 106.6 to 106.8m.	Q183437	106.00	107.00	1.00	0.28	0.04	
			Q183438	107.00	108.00	1.00	0.09	0.11	
			Q183439	108.00	109.00	1.00	0.01	0.11	
109.00 -	136.70	**SYEN Syenite** Medium grey to reddish-grey, medium to coarse grained massive syenite. No visible graphite.	Q183440	109.00	110.00	1.00	0.01	0.09	
			Q183441	110.00	111.00	1.00	0.02	0.11	
			Q183442	111.00	112.50	1.50	0.04	0.05	
			Q183443	112.50	114.00	1.50	0.01	0.04	
			Q183445	114.00	115.50	1.50	0.04	0.02	
			Q183446	115.50	117.00	1.50	0.01	0.04	
			Q183447	117.00	118.50	1.50	0.03	0.11	
			Q183448	118.50	120.00	1.50	0.01	0.05	
			Q183449	120.00	121.50	1.50	0.01	0.02	
			Q183450	121.50	123.00	1.50	0.03	0.01	
			Q183452	123.00	124.50	1.50	0.01	0.01	
			Q183453	124.50	125.50	1.00	0.01	0.005	
			Q183454	125.50	126.50	1.00	0.02	0.01	
			Q183456	126.50	128.00	1.50	0.01	0.03	
			Q183457	128.00	129.50	1.50	0.02	0.05	
			Q183458	129.50	131.00	1.50	0.03	0.01	
			Q183459	131.00	132.50	1.50	0.02	0.03	
			Q183460	132.50	134.00	1.50	0.08	0.05	
			Q183461	134.00	135.00	1.00	0.03	0.03	
			Q183462	135.00	135.85	0.85	0.01	0.04	
			Q183463	135.85	136.70	0.85	0.04	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
136.70	139.03	**SYENOP Syenite with Graphitic Overprinting** Same syenite unit as above just minor graphite overprinting as fracture filling graphite veinlets at 136.8 and from 138.3 to 139m.	Q183465	136.70	137.70	1.00	0.07	0.07	
			Q183466	137.70	139.03	1.33	0.42	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
139.03	182.70	**SYEN Syenite** Reddish-pink to greyish-pink, massive, medium to coarse grained syenite. No visible graphite. Lower contact sharp at 80 dca.	Q183467	139.03	140.00	0.97	0.11	0.04	
			Q183468	140.00	141.00	1.00	0.07	0.04	
			Q183469	141.00	142.50	1.50	0.08	0.06	
			Q183470	142.50	144.00	1.50	0.07	0.04	
			Q183472	144.00	145.50	1.50	0.01	0.05	
			Q183473	145.50	147.00	1.50	0.03	0.05	
			Q183474	147.00	148.50	1.50	0.04	0.03	
			Q183476	148.50	150.00	1.50	0.01	0.02	
			Q183477	150.00	151.50	1.50	0.02	0.03	
			Q183478	151.50	153.00	1.50	0.01	0.04	
			Q183479	153.00	154.00	1.00	0.02	0.05	
			Q183480	154.00	155.00	1.00	0.02	0.07	
			Q183481	155.00	156.20	1.20	0.04	0.08	
			Q183482	156.20	157.10	0.90	0.01	0.1	
			Q183483	157.10	158.00	0.90	0.01	0.17	
			Q183485	158.00	159.00	1.00	0.01	0.05	
			Q183486	159.00	160.50	1.50	0.01	0.04	
			Q183487	160.50	162.00	1.50	0.01	0.04	
			Q183488	162.00	163.50	1.50	0.05	0.04	
			Q183489	163.50	165.00	1.50	0.01	0.03	
			Q183490	165.00	166.50	1.50	0.01	0.01	
			Q183492	166.50	168.00	1.50	0.01	0.01	
			Q183493	168.00	169.50	1.50	0.03	0.05	
			Q183494	169.50	171.00	1.50	0.01	0.05	
			Q183496	171.00	172.50	1.50	0.01	0.04	
			Q183497	172.50	174.00	1.50	0.03	0.03	
			Q183498	174.00	175.50	1.50	0.05	0.07	
			Q183499	175.50	177.00	1.50	0.06	0.02	
			Q183500	177.00	178.50	1.50	0.01	0.02	
			Q183501	178.50	180.00	1.50	0.05	0.04	
			Q183502	180.00	181.50	1.50	0.06	0.06	
			Q183503	181.50	182.70	1.20	0.03	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.70 -	191.62	**ID Intermediate Dyke** Dark grey, fine grained, moderate foliation. Feldspar plus fine grained biotite. Probably a fine grained feldspar porphyry. Foliation at 90 dca. Weak graphite overprinting and two discrete graphite veinlets at 184.65 and at 186.45m. Lower contact sharp at 65 dca.	Q183505	182.70	184.00	1.30	0.09	0.13	
			Q183506	184.00	185.00	1.00	0.25	0.16	
			Q183507	185.00	186.00	1.00	0.22	0.2	
			Q183508	186.00	187.00	1.00	0.33	0.17	
			Q183509	187.00	188.25	1.25	0.18	0.23	
			Q183510	188.25	189.15	0.90	0.18	0.21	
			Q183512	189.15	190.00	0.85	0.07	0.13	
			Q183513	190.00	190.80	0.80	0.15	0.13	
			Q183514	190.80	191.62	0.82	0.03	0.15	
191.62 -	194.80	**MD Mafic Dyke** Dark green, fine grained, massive mafic dyke. Weak to moderate foliation at 70 dca. Three syenite sections: one 10cm section at 192.57, the second one from 193.1 to 193.54m and from 194.13 to 194.35m.	Q183516	191.62	192.50	0.88	0.26	0.04	
			Q183517	192.50	193.54	1.04	0.32	0.05	
			Q183518	193.54	194.80	1.26	0.11	0.07	
194.80 -	196.39	**SYEN Syenite** Reddish-brown massive, medium grained syenite. Blocky core and locally rubble form upper contact to 196m. Lower contact sharp at 85m.	Q183519	194.80	195.50	0.70	0.41	0.06	
			Q183520	195.50	196.39	0.89	0.15	0.1	
196.39 -	198.85	**FD Felsic Dyke** Dark grey , fine grain, massive felsic dyke. Lower contact sharp at 75 dca.	Q183521	196.39	197.60	1.21	0.29	0.06	
			Q183522	197.60	198.85	1.25	0.15	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
198.85	246.00	**SYEN Syenite** Medium grey to reddish-grey, medium to coarse grained, massive syenite. No visible graphite.	Q183523	198.85	200.00	1.15	0.19	0.23	
			Q183525	200.00	201.00	1.00	0.12	0.24	
			Q183526	201.00	202.50	1.50	0.03	0.24	
			Q183527	202.50	204.00	1.50	0.07	0.21	
			Q183528	204.00	205.50	1.50	0.07	0.14	
			Q183529	205.50	207.00	1.50	0.1	0.17	
			Q183530	207.00	208.50	1.50	0.11	0.15	
			Q183532	208.50	210.00	1.50	0.16	0.21	
			Q183533	210.00	211.50	1.50	0.15	0.26	
			Q183534	211.50	213.00	1.50	0.14	0.23	
			Q183536	213.00	214.50	1.50	0.11	0.17	
			Q183537	214.50	216.00	1.50	0.52	0.22	
			Q183538	216.00	217.50	1.50	0.08	0.22	
			Q183539	217.50	219.00	1.50	0.06	0.26	
			Q183540	219.00	220.50	1.50	0.17	0.23	
			Q183541	220.50	222.00	1.50	0.06	0.24	
			Q183542	222.00	223.50	1.50	0.16	0.24	
			Q183543	223.50	225.00	1.50	0.14	0.24	
			Q183545	225.00	226.50	1.50	0.07	0.22	
			Q183546	226.50	228.00	1.50	0.38	0.12	
			Q183547	228.00	229.50	1.50	0.21	0.23	
			Q183548	229.50	231.00	1.50	0.14	0.24	
			Q183549	231.00	232.50	1.50	0.09	0.29	
			Q183550	232.50	234.00	1.50	0.12	0.3	
			Q183552	234.00	235.50	1.50	0.05	0.21	
			Q183553	235.50	237.00	1.50	0.05	0.22	
			Q183554	237.00	238.50	1.50	0.32	0.15	
			Q183556	238.50	240.00	1.50	0.11	0.26	
			Q183557	240.00	241.50	1.50	0.2	0.25	
			Q183558	241.50	243.00	1.50	0.11	0.24	
			Q183559	243.00	244.50	1.50	0.12	0.19	
			Q183560	244.50	246.00	1.50	0.11	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
246.00 -	247.00	**SYENOP Syenite with Graphitic Overprinting** Same syenite unit as above just one fracture filling graphite veinlet at 246.2m.	Q183561	246.00	247.00	1.00	0.23	0.23	
247.00 -	270.49	**SYEN Syenite** Medium grey to reddish-grey, medium to coarse grained, massive syenite. No visible graphite. Lower contact sharp at 75 dca.	Q183562	247.00	248.00	1.00	0.08	0.25	
			Q183563	248.00	249.00	1.00	0.11	0.3	
			Q183565	249.00	250.50	1.50	0.12	0.27	
			Q183566	250.50	252.00	1.50	0.11	0.19	
			Q183567	252.00	253.50	1.50	0.02	0.18	
			Q183568	253.50	255.00	1.50	0.2	0.26	
			Q183569	255.00	256.50	1.50	0.19	0.3	
			Q183570	256.50	258.00	1.50	0.22	0.18	
			Q183572	258.00	259.50	1.50	0.8	0.25	
			Q183573	259.50	261.00	1.50	0.78	0.3	
			Q183574	261.00	262.50	1.50	0.29	0.3	
			Q183576	262.50	264.00	1.50	0.26	0.23	
			Q183577	264.00	265.50	1.50	0.36	0.33	
			Q183578	265.50	267.00	1.50	0.44	0.31	
			Q183579	267.00	268.50	1.50	0.24	0.32	
			Q183580	268.50	269.50	1.00	0.17	0.24	
			Q183581	269.50	270.49	0.99	0.15	0.42	
270.49 -	273.85	**MDOP Mafic Dyke with Graphitic Overprinting** Medium grey to greenish-grey fine grained massive mafic to intermediate dyke. Fine grained biotite. Weak graphite overprinting as hairline fracture filling graphite veinlets. Lower contact sharp at 80 dca.	Q183582	270.49	271.50	1.01	0.63	0.19	
			Q183583	271.50	272.60	1.10	0.48	0.15	
			Q183585	272.60	273.85	1.25	0.8	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
273.85	290.43	**SYENOP Syenite with Graphitic Overprinting** Medium grey to locally dark grey, medium grained massive syenite. Weak graphite overprinting as discrete graphite veinlets from upper contact to 279.25m. Strong graphite overprinting as fracture filling veinlets and graphite flooding in the matrix from 279.25 to 279.95m. Discrete graphite veinlets from 281.6 to 284 and from 285.5 to 287.5m. Lower contact sharp at 30 dca.	Q183586	273.85	275.00	1.15	0.99	0.34	
			Q183587	275.00	276.00	1.00	0.53	0.33	
			Q183588	276.00	277.00	1.00	0.73	0.31	
			Q183589	277.00	278.00	1.00	0.61	0.35	
			Q183590	278.00	279.00	1.00	0.8	0.4	
			Q183592	279.00	280.00	1.00	8.65	0.24	
			Q183593	280.00	281.00	1.00	1.33	0.59	
			Q183594	281.00	282.00	1.00	2.09	0.36	
			Q183596	282.00	283.00	1.00	1.27	0.38	
			Q183597	283.00	284.00	1.00	1.39	0.37	
			Q183598	284.00	285.00	1.00	0.76	0.3	
			Q183599	285.00	286.00	1.00	0.99	0.34	
			Q183600	286.00	287.00	1.00	0.67	0.35	
			Q183601	287.00	288.00	1.00	2.01	0.32	
			Q183602	288.00	289.20	1.20	0.85	0.29	
			Q183603	289.20	290.43	1.23	0.38	0.06	
290.43	301.79	**GRPBX Graphitic Breccia** Dark grey, fine to medium grained brecciated syenite. Good graphite as fracture filling veinlets and to a minor extent as matrix flooding. Fractured fragments of syenite and mafic to intermediate dykes. Moderately fractured core from 292.2 to 292.5. Lower contact sharp at 90 dca.	Q183605	290.43	291.50	1.07	9.06	0.09	
			Q183606	291.50	292.50	1.00	6.72	0.13	2.61
			Q183607	292.50	293.50	1.00	4.58	0.12	2.71
			Q183608	293.50	294.50	1.00	5.7	0.06	2.71
			Q183609	294.50	295.50	1.00	2.26	0.18	2.65
			Q183610	295.50	296.50	1.00	3.28	0.29	2.62
			Q183612	296.50	297.50	1.00	8.59	0.66	
			Q183613	297.50	298.50	1.00	6.16	0.2	
			Q183614	298.50	299.50	1.00	6	0.25	
			Q183616	299.50	300.60	1.10	4.24	0.36	
			Q183617	300.60	301.79	1.19	8.81	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
301.79	307.46	**SYENOP Syenite with Graphitic Overprinting** Dark grey, medium grained fractured syenite. Moderate graphite overprinting as fracture filling graphite veinlets. Lower contact sharp at 50 dca.	Q183618	301.79	302.80	1.01	2.46	0.31	
			Q183619	302.80	303.85	1.05	1.58	0.27	
			Q183620	303.85	304.59	0.74	0.06	0.09	
			Q183621	304.59	305.50	0.91	6.91	0.2	
			Q183622	305.50	306.50	1.00	2.77	0.37	
			Q183623	306.50	307.46	0.96	1.43	0.35	
307.46	324.32	**GRPBX Graphitic Breccia** Dark grey, medium grained, brecciated syenite. Very good fracture filling graphite veinlets and veins and graphite flooding in the matrix. Both syenite and mafic to intermediate dyke angular fragments. Lower contact sharp at 70 dca.	Q183625	307.46	308.50	1.04	6.15	0.25	
			Q183626	308.50	309.50	1.00	8.5	0.16	
			Q183627	309.50	310.50	1.00	4.48	0.33	
			Q183628	310.50	311.50	1.00	9.98	0.27	
			Q183629	311.50	312.50	1.00	9.82	0.32	
			Q183630	312.50	313.50	1.00	9.65	0.33	
			Q183632	313.50	314.50	1.00	10.75	0.18	
			Q183633	314.50	315.50	1.00	5.16	0.23	
			Q183634	315.50	316.50	1.00	3.45	0.26	
			Q183636	316.50	317.50	1.00	6.81	0.22	
			Q183637	317.50	318.50	1.00	9.24	0.25	
			Q183638	318.50	319.50	1.00	6.71	0.21	
			Q183639	319.50	320.50	1.00	6.8	0.25	
			Q183640	320.50	321.50	1.00	6.22	0.2	
			Q183641	321.50	322.50	1.00	6.02	0.2	
			Q183642	322.50	323.40	0.90	3.69	0.25	
			Q183643	323.40	324.32	0.92	9.33	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
324.32	330.14	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium to coarse grained, massive syenite. Weak to locally moderate graphite overprinting and minor brecciation at 325.5 to 326 and from 328.3 to 328.6m. Lower contact sharp at 90 dca.	Q183645	324.32	325.20	0.88	0.38	0.43	
			Q183646	325.20	326.20	1.00	3.04	0.36	
			Q183647	326.20	327.20	1.00	0.41	0.33	
			Q183648	327.20	328.20	1.00	0.83	0.31	
			Q183649	328.20	329.20	1.00	1.56	0.32	
			Q183650	329.20	330.14	0.94	2.41	0.31	
330.14	332.38	**GRPBX Graphitic Breccia** Dark grey brecciated syenite. Good fracture filling graphite veinlets and as matrix flooding. Syenite fragments angular and <5cm in size. Lower contact sharp at 45 dca.	Q183652	330.14	331.15	1.01	7.28	0.29	
			Q183653	331.15	332.38	1.23	7.67	0.35	
332.38	336.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Moderate graphite overprinting as fracture filling veinlets from 333.2 to 334.3m. Lower contact sharp at 35 dca.	Q183654	332.38	333.20	0.82	1.18	0.34	
			Q183656	333.20	334.10	0.90	1.94	0.41	
			Q183657	334.10	335.00	0.90	0.9	0.35	
			Q183658	335.00	336.00	1.00	0.59	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
336.00	343.95	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. Cut by numerous, greenish-grey, medium grained gabbroic dykes and/or injections. No visible graphite. Lower contact sharp but irregular at 35 dca.	Q183659	336.00	337.00	1.00	0.03	0.09	
			Q183660	337.00	338.00	1.00	0.01	0.02	
			Q183661	338.00	339.00	1.00	0.02	0.37	
			Q183662	339.00	340.00	1.00	0.01	0.1	
			Q183663	340.00	341.00	1.00	0.01	0.03	
			Q183665	341.00	342.00	1.00	0.01	0.03	
			Q183666	342.00	343.00	1.00	0.08	0.01	
			Q183667	343.00	343.95	0.95	0.04	0.05	
343.95	347.60	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained, massive syenite. Moderate graphite overprinting as fracture filling veinlets from 349.3 to lower contact. Lower contact sharp at 90 dca.	Q183668	343.95	344.90	0.95	0.83	0.42	
			Q183669	344.90	345.80	0.90	1.98	0.36	
			Q183670	345.80	346.70	0.90	2.12	0.23	
			Q183672	346.70	347.60	0.90	1.29	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
347.60 -	360.49	**GRPBX Graphitic Breccia** Medium to dark grey brecciated and fractured syenite. Fracture filling graphite veinlets and fine grained graphite flooding in the matrix. Good graphite content overall. From 353 to 354.4m medium grey, massive syenite section with minor graphite. Trace sulphides as odd pyrite bleb and/or pyrite veinlet. Lower contact sharp at 90 dca.	Q183673	347.60	348.50	0.90	6.81	0.22	
			Q183674	348.50	349.50	1.00	9.05	0.28	
			Q183676	349.50	350.50	1.00	14.1	0.4	
			Q183677	350.50	351.50	1.00	8.38	0.34	2.72
			Q183678	351.50	352.50	1.00	1.87	0.27	2.63
			Q183679	352.50	353.50	1.00	3.01	0.4	2.62
			Q183680	353.50	354.50	1.00	3.54	0.38	2.65
			Q183681	354.50	355.50	1.00	2.71	0.36	2.64
			Q183682	355.50	356.50	1.00	8.58	0.4	
			Q183683	356.50	357.50	1.00	6.98	0.35	
			Q183685	357.50	358.50	1.00	7.31	0.25	
			Q183686	358.50	359.50	1.00	14.55	0.08	
			Q183687	359.50	360.49	0.99	10.65	0.21	
360.49 -	361.53	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, medium grained, massive syenite. Weak graphite overprinting as discrete, fracture filling graphite veinlets. Lower contact sharp at 40 dca.	Q183688	360.49	361.53	1.04	1.99	0.21	
361.53 -	363.44	**FD Felsic Dyke** Light grey, fine grain massive felsic dyke. Pyrrhotite blebs at 362.06m. Hard. Lower contact sharp, but irregular at 80 dca.	Q183689	361.53	362.50	0.97	0.02	0.28	
			Q183690	362.50	363.44	0.94	0.08	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
363.44	369.24	**DIOR Diorite** Dark grey to greenish-grey, fine grained, massive, diorite? Hard.	Q183692	363.44	364.50	1.06	0.01	0.02	
			Q183693	364.50	365.50	1.00	0.13	0.03	
			Q183694	365.50	366.50	1.00	0.11	0.03	
			Q183696	366.50	367.50	1.00	0.01	0.09	
			Q183697	367.50	368.40	0.90	0.03	0.06	
			Q183698	368.40	369.24	0.84	0.03	0.06	
369.24	378.80	**FD Felsic Dyke** Dark grey to almost black, fine to very fine grained felsic intrusive. Hard. Upper contact gradual. Lower contact sharp at 70 dca. Greenish-grey medium to coarse grained gabbroic injections, brecciation from 374.2m to the lower contact.	Q183699	369.24	370.20	0.96	0.09	0.22	
			Q183700	370.20	371.10	0.90	0.12	0.04	
			Q183701	371.10	372.00	0.90	0.03	0.03	
			Q183702	372.00	373.00	1.00	0.02	0.03	
			Q183703	373.00	374.00	1.00	0.09	0.1	
			Q183705	374.00	375.00	1.00	0.01	0.12	
			Q183706	375.00	376.00	1.00	0.05	0.03	
			Q183707	376.00	377.00	1.00	0.12	0.02	
			Q183708	377.00	377.90	0.90	0.06	0.03	
			Q183709	377.90	378.80	0.90	0.01	0.09	
378.80	380.00	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite with fracture filling graphite and graphite flooding in the matrix.	Q183710	378.80	380.00	1.20	9.13	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
380.00	389.22	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained syenite. Moderate graphite overprinting as fracture filling veinlets. Minor graphite flooding at 380.2 and 386.6 to 387m. Lower contact sharp at 55 dca.	Q183712	380.00	381.00	1.00	5.15	0.31	
			Q183713	381.00	382.00	1.00	2.81	0.33	
			Q183714	382.00	383.00	1.00	6.6	0.23	
			Q183716	383.00	384.00	1.00	2.2	0.43	2.62
			Q183717	384.00	385.00	1.00	4.99	0.3	2.63
			Q183718	385.00	385.80	0.80	0.32	0.35	2.64
			Q183719	385.80	386.60	0.80	2.67	0.32	2.58
			Q183720	386.60	387.38	0.78	16.4	0.56	2.64
			Q183721	387.38	388.30	0.92	1.05	0.06	
			Q183722	388.30	389.22	0.92	2.74	0.13	
389.22	393.05	**FD Felsic Dyke** Medium grey to greenish-grey, with a light pink hue when wet, fine grained, massive felsic dyke. Lower contact sharp at 30 dca. Very fine grained 20cm chilled margin at lower contact.	Q183723	389.22	390.10	0.88	0.07	0.17	
			Q183725	390.10	391.00	0.90	0.03	0.15	
			Q183726	391.00	392.00	1.00	0.01	0.15	
			Q183727	392.00	393.05	1.05	0.04	0.18	
393.05	396.70	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Weak to moderate graphite overprinting as fracture filling graphite veinlets.	Q183728	393.05	394.00	0.95	3.5	0.19	
			Q183729	394.00	395.00	1.00	0.9	0.14	
			Q183730	395.00	395.85	0.85	1.12	0.1	
			Q183732	395.85	396.70	0.85	1.13	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
396.70	404.65	**SYEN Syenite** Medium grey to pinkish-grey, medium to coarse grained, massive syenite. No visible graphite. Lower contact sharp at 65 dca.	Q183733	396.70	397.80	1.10	0.15	0.22	
			Q183734	397.80	398.90	1.10	0.07	0.22	
			Q183736	398.90	400.00	1.10	0.15	0.19	
			Q183737	400.00	401.00	1.00	0.08	0.22	
			Q183738	401.00	402.00	1.00	0.1	0.07	
			Q183739	402.00	403.00	1.00	0.22	0.11	
			Q183740	403.00	403.80	0.80	0.19	0.04	
			Q183741	403.80	404.65	0.85	0.04	0.17	
404.65	406.67	**FD Felsic Dyke** Dark grey, massive, very fine grained felsic to intermediate dyke. Slightly coarser near the centre. Lower contact sharp at 60 dca.	Q183742	404.65	405.65	1.00	0.01	0.04	
			Q183743	405.65	406.67	1.02	0.01	0.02	
406.67	408.10	**FP Feldspar Porphyry** Dark grey, very fine grained matrix with 1-4mm subhedral milky white feldspar phenocrysts. Two 15-20cm fine grained granitic injections at 407 and 407.4m. Lower contact sharp at 65 dca.	Q183745	406.67	407.40	0.73	0.01	0.04	
			Q183746	407.40	408.10	0.70	0.03	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
408.10	466.30	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish grey, fine to medium grained, massive, "gabbroic texture".	Q183747	408.10	409.00	0.90	0.01	0.09	
			Q183748	409.00	410.00	1.00	0.01	0.01	
			Q183749	410.00	411.00	1.00	0.01	0.01	
			Q183750	411.00	412.50	1.50	0.01	0.01	
			Q183752	412.50	414.00	1.50	0.01	0.005	
			Q183753	414.00	415.50	1.50	0.01	0.01	
			Q183754	415.50	417.00	1.50	0.01	0.03	
			Q183756	417.00	418.50	1.50	0.01	0.02	
			Q183757	418.50	420.00	1.50	0.01	0.02	
			Q183758	420.00	421.50	1.50	0.01	0.02	
			Q183759	421.50	423.00	1.50	0.01	0.06	
			Q183760	423.00	424.50	1.50	0.01	0.03	
			Q183761	424.50	426.00	1.50	0.01	0.02	
			Q183762	426.00	427.50	1.50	0.03	0.06	
			Q183763	427.50	429.00	1.50	0.01	0.05	
			Q183765	429.00	430.50	1.50	0.07	0.06	
			Q183766	430.50	432.00	1.50	0.01	0.11	
			Q183767	432.00	433.50	1.50	0.05	0.05	
			Q183768	433.50	435.00	1.50	0.03	0.02	
			Q183769	435.00	436.50	1.50	0.01	0.02	
			Q183770	436.50	438.00	1.50	0.01	0.03	
			Q183772	438.00	439.50	1.50	0.01	0.02	
			Q183773	439.50	441.00	1.50	0.01	0.04	
			Q183774	441.00	442.50	1.50	0.06	0.03	
			Q183776	442.50	444.00	1.50	0.03	0.05	
			Q183777	444.00	445.50	1.50	0.09	0.21	
			Q183778	445.50	447.00	1.50	0.09	0.05	
			Q183779	447.00	448.50	1.50	0.05	0.1	
			Q183780	448.50	450.00	1.50	0.03	0.04	
			Q183781	450.00	451.50	1.50	0.04	0.05	
			Q183782	451.50	453.00	1.50	0.12	0.08	
			Q183783	453.00	454.50	1.50	0.07	0.03	
			Q183785	454.50	456.00	1.50	0.01	0.02	
			Q183786	456.00	457.50	1.50	0.01	0.03	
			Q183787	457.50	459.00	1.50	0.01	0.14	
			Q183788	459.00	460.50	1.50	0.07	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q183789	460.50	462.00	1.50	0.06	1.51	
			Q183790	462.00	463.50	1.50	0.02	1.4	
			Q183792	463.50	465.00	1.50	0.07	0.57	
			Q183793	465.00	466.30	1.30	0.05	0.92	
466.30	470.08	**SYEN Syenite** Light grey to medium grey, massive coarse grained syenite. No visible graphite. Upper contact sharp at 70 dca. Lower contact sharp at 60 dca.	Q183794	466.30	467.20	0.90	0.18	0.15	
			Q183796	467.20	468.00	0.80	0.12	0.2	
			Q183797	468.00	469.00	1.00	0.21	0.19	
			Q183798	469.00	470.08	1.08	0.18	0.2	
470.08	482.15	**ID Intermediate Dyke** Medium to dark grey, fine grained massive intermediate intrusive. Light greenish-grey medium grained gabbroic injections along fractures >1cm. No visible graphite. Lower contact sharp at 40 dca.	Q183799	470.08	471.00	0.92	0.04	0.1	
			Q183800	471.00	472.50	1.50	0.02	0.07	
			Q183801	472.50	474.00	1.50	0.06	0.05	
			Q183802	474.00	475.30	1.30	0.02	0.15	
			Q183803	475.30	476.37	1.07	0.01	0.04	
			Q183805	476.37	477.70	1.33	0.08	0.06	
			Q183806	477.70	479.00	1.30	0.05	0.04	
			Q183807	479.00	480.00	1.00	0.09	0.02	
			Q183808	480.00	481.00	1.00	0.06	0.04	
			Q183809	481.00	482.15	1.15	0.06	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
482.15	522.00	**SYEN Syenite** Light to medium grey, medium to coarse grained, massive syenite. Trace sulphides a finely disseminated pyrite. One weakly conductive fracture filling veinlet at 490.7m. EOH 522.0m	Q183810	482.15	483.10	0.95	0.07	0.29	
			Q183812	483.10	484.00	0.90	0.13	0.35	
			Q183813	484.00	484.93	0.93	0.12	0.3	
			Q183814	484.93	485.80	0.87	0.04	0.11	
			Q183816	485.80	486.50	0.70	0.04	0.13	
			Q183817	486.50	488.00	1.50	0.17	0.07	
			Q183818	488.00	489.00	1.00	0.17	0.1	
			Q183819	489.00	490.50	1.50	0.19	0.05	
			Q183820	490.50	492.00	1.50	0.2	0.11	
			Q183821	492.00	493.50	1.50	0.14	0.45	
			Q183822	493.50	495.00	1.50	0.13	0.51	
			Q183823	495.00	496.50	1.50	0.34	0.32	
			Q183825	496.50	498.00	1.50	0.25	0.19	
			Q183826	498.00	499.50	1.50	0.14	0.34	
			Q183827	499.50	501.00	1.50	0.11	0.25	
			Q183828	501.00	502.50	1.50	0.11	0.26	
			Q183829	502.50	504.00	1.50	0.19	0.39	
			Q183830	504.00	505.50	1.50	0.68	0.34	
			Q183832	505.50	507.00	1.50	0.61	0.52	
			Q183833	507.00	508.50	1.50	0.3	0.92	
			Q183834	508.50	510.00	1.50	0.12	0.31	
			Q183836	510.00	511.50	1.50	0.1	0.38	
			Q183837	511.50	513.00	1.50	0.09	0.32	
			Q183838	513.00	514.50	1.50	0.13	0.7	
			Q183839	514.50	516.00	1.50	0.06	0.06	
			Q183840	516.00	517.50	1.50	0.04	0.28	
			Q183841	517.50	519.00	1.50	0.15	0.4	
			Q183842	519.00	520.50	1.50	0.02	0.17	
			Q183843	520.50	522.00	1.50	0.07	0.16	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	363.00	14/08/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545693.6	682791.8			Reflex APS		18/08/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	123.90	45.10		-49.30	Chibougamau Diamond Drilling		20/08/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts		Mike Roberts		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	297	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test East pipe from the northwest at depth.	205.76 - 287.69 graphite rich breccia with alternating overprinted syenite and 287.69m - 319.20m overprinted syenite. From 95.00m to 330.00m, the assays averaged 2.16% Cg over 235.00m; within this intersection a higher grade graphite zone from 203.00m to 289.00m averaged 5.21% Cg over 86.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			52.7	43.7	-51	-51	☑	Reflex EZ	56444	
75.00			53.3	44.3	-51.2	-51.2	☑	Reflex EZ	56383	
78.00			53.4	44.4	-51.1	-51.1	☑	Reflex EZ	56331	
81.00			53.4	44.4	-51.1	-51.1	☑	Reflex EZ	56298	
87.00			53	44	-51.1	-51.1	☑	Reflex EZ	56235	
93.00			53.2	44.2	-50.9	-50.9	☑	Reflex EZ	56137	
96.00			53.4	44.4	-51.1	-51.1	☑	Reflex EZ	56247	
102.00			53.7	44.7	-51.2	-51.2	☑	Reflex EZ	56240	
105.00			53	44	-51.1	-51.1	☑	Reflex EZ	56213	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
108.00			53.1	44.1	-51.1	-51.1	☑	Reflex EZ	56217	
111.00			52.6	43.6	-50.9	-50.9	☑	Reflex EZ	56181	
114.00			52.8	43.8	-50.9	-50.9	☑	Reflex EZ	56261	
117.00			53.3	44.3	-51.1	-51.1	☑	Reflex EZ	56217	
120.00			53	44	-51	-51	☑	Reflex EZ	56175	
123.00			53.8	44.8	-51.2	-51.2	☑	Reflex EZ	56249	
126.00			53.4	44.4	-51	-51	☑	Reflex EZ	56194	
129.00			53.8	44.8	-51.1	-51.1	☑	Reflex EZ	56223	
132.00			53.5	44.5	-51.1	-51.1	☑	Reflex EZ	56214	
138.00			52.9	43.9	-50.8	-50.8	☑	Reflex EZ	56198	
141.00			52.9	43.9	-50.8	-50.8	☑	Reflex EZ	56197	
144.00			53.7	44.7	-51	-51	☑	Reflex EZ	56243	
147.00			54.1	45.1	-51	-51	☑	Reflex EZ	56249	
150.00			54.1	45.1	-51	-51	☑	Reflex EZ	56286	
153.00			53.8	44.8	-51	-51	☑	Reflex EZ	56211	
156.00			54.1	45.1	-51	-51	☑	Reflex EZ	56261	
159.00			53.6	44.6	-50.8	-50.8	☑	Reflex EZ	56244	
162.00			53.3	44.3	-50.8	-50.8	☑	Reflex EZ	56184	
165.00			54.1	45.1	-50.9	-50.9	☑	Reflex EZ	56245	
168.00			53.4	44.4	-50.8	-50.8	☑	Reflex EZ	56192	
171.00			52.9	43.9	-50.7	-50.7	☑	Reflex EZ	56230	
174.00			53.2	44.2	-50.7	-50.7	☑	Reflex EZ	56219	
177.00			54.4	45.4	-50.9	-50.9	☑	Reflex EZ	56297	
180.00			54	45	-50.7	-50.7	☑	Reflex EZ	56155	
183.00			53.2	44.2	-50.6	-50.6	☑	Reflex EZ	56175	
186.00			54.3	45.3	-50.9	-50.9	☑	Reflex EZ	56237	
189.00			54.2	45.2	-50.8	-50.8	☑	Reflex EZ	56266	
192.00			53.5	44.5	-50.7	-50.7	☑	Reflex EZ	56168	
195.00			54.3	45.3	-50.9	-50.9	☑	Reflex EZ	56250	
198.00			53.5	44.5	-50.7	-50.7	☑	Reflex EZ	56150	
201.00			53.6	44.6	-50.8	-50.8	☑	Reflex EZ	56161	
204.00			53.5	44.5	-50.7	-50.7	☑	Reflex EZ	56173	
207.00			53.8	44.8	-50.8	-50.8	☑	Reflex EZ	56173	
210.00			54.4	45.4	-50.9	-50.9	☑	Reflex EZ	56243	
213.00			54.3	45.3	-50.9	-50.9	☑	Reflex EZ	56224	
216.00			53.6	44.6	-50.8	-50.8	☑	Reflex EZ	56168	
219.00			53.2	44.2	-50.6	-50.6	☑	Reflex EZ	56164	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
222.00			54.2	45.2	-50.9	-50.9	☑	Reflex EZ	56234	
225.00			53.7	44.7	-50.8	-50.8	☑	Reflex EZ	56155	
228.00			53.3	44.3	-50.7	-50.7	☑	Reflex EZ	56168	
231.00			53.4	44.4	-50.7	-50.7	☑	Reflex EZ	56171	
234.00			53.3	44.3	-50.7	-50.7	☑	Reflex EZ	56174	
237.00			53.4	44.4	-50.7	-50.7	☑	Reflex EZ	56197	
240.00			53.7	44.7	-50.8	-50.8	☑	Reflex EZ	56168	
243.00			53.9	44.9	-50.8	-50.8	☑	Reflex EZ	56176	
246.00			53.7	44.7	-50.7	-50.7	☑	Reflex EZ	56218	
249.00			54.2	45.2	-50.9	-50.9	☑	Reflex EZ	56199	
252.00			53.4	44.4	-50.7	-50.7	☑	Reflex EZ	56193	
255.00			53.2	44.2	-50.6	-50.6	☑	Reflex EZ	56176	
258.00			53.7	44.7	-50.7	-50.7	☑	Reflex EZ	56182	
261.00			54	45	-50.8	-50.8	☑	Reflex EZ	56203	
264.00			54.4	45.4	-50.9	-50.9	☑	Reflex EZ	56277	
267.00			53.7	44.7	-50.7	-50.7	☑	Reflex EZ	56182	
270.00			54	45	-50.7	-50.7	☑	Reflex EZ	56190	
273.00			54.5	45.5	-50.7	-50.7	☑	Reflex EZ	56253	
276.00			53.8	44.8	-50.7	-50.7	☑	Reflex EZ	56198	
279.00			53.5	44.5	-50.5	-50.5	☑	Reflex EZ	56186	
282.00			54.1	45.1	-50.7	-50.7	☑	Reflex EZ	56211	
285.00			54.3	45.3	-50.7	-50.7	☑	Reflex EZ	56243	
288.00			54.3	45.3	-50.7	-50.7	☑	Reflex EZ	56240	
291.00			53.4	44.4	-50.4	-50.4	☑	Reflex EZ	56222	
294.00			54	45	-50.6	-50.6	☑	Reflex EZ	56196	
297.00			54.8	45.8	-50.6	-50.6	☑	Reflex EZ	56275	
300.00			53.4	44.4	-50.4	-50.4	☑	Reflex EZ	56210	
303.00			54.1	45.1	-50.4	-50.4	☑	Reflex EZ	56391	
306.00			53.6	44.6	-50.3	-50.3	☑	Reflex EZ	56242	
309.00			53.1	44.1	-50.3	-50.3	☑	Reflex EZ	56152	
312.00			53.8	44.8	-50.3	-50.3	☑	Reflex EZ	56199	
315.00			54.2	45.2	-50.5	-50.5	☑	Reflex EZ	56145	
318.00			54.6	45.6	-50.6	-50.6	☑	Reflex EZ	56261	
324.00			53.6	44.6	-50.4	-50.4	☑	Reflex EZ	56203	
327.00			53.5	44.5	-50.3	-50.3	☑	Reflex EZ	56196	
330.00			53.9	44.9	-50.5	-50.5	☑	Reflex EZ	56245	
333.00			53.9	44.9	-50.4	-50.4	☑	Reflex EZ	56283	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
336.00			53.9	44.9	-50.4	-50.4	☑	Reflex EZ	56223	
339.00			54.4	45.4	-50.6	-50.6	☑	Reflex EZ	56298	
348.00			54.6	45.6	-50.6	-50.6	☑	Reflex EZ	56161	
351.00			54.6	45.6	-50.5	-50.5	☑	Reflex EZ	56175	
354.00			53.8	44.8	-50.5	-50.5	☑	Reflex EZ	56073	
357.00			54	45	-50.5	-50.5	☑	Reflex EZ	56200	
360.00			54	45	-50.5	-50.5	☑	Reflex EZ	56163	
363.00			53.7	44.7	-50.4	-50.4	☑	Reflex EZ	56239	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	62.40	**OB Overburden** Unknown overburden							
62.40	66.17	**SED Sediment** White to tan to brown. Very fine grained limestone with some silt and mudstone. Very blocky and broken. Lower contact unconformed at 80 dca.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
66.17	- 149.35	**SYENOP Syenite with Graphitic Overprinting** Pink to orange to light grey. Massive and very hard. Local fracture filling graphite. Also numerous weathered fractures throughout. 66.17 to 66.74 Unconformity rubble. Strongly weathered. 93.73 to 96.69 Unit becomes weakly sheared with weak chlorite alteration. Weak foliation at 65 dca. Syenite gneiss still. Moderate graphite fracture filling. Upper Contact at 71 Lower Contact at 71 dca. 96.69 to 97.81 Strongly fractured. 99.74 to 99.77 Chert or chalcedony vein at 45 dca. 99.91 to 122.84 Unit again becomes weakly sheared with stretched quartz. Moderate fracture filling graphite. 122.84 to 131.00 Fault zone. Very strongly fractured and blocky with local graphite fracture filling and malachite fault gouge. Lower contact irregular at 17 dca.	Q183845	66.17	67.00	0.83	0.35	0.29	
			Q183846	67.00	68.00	1.00	0.04	0.06	
			Q183847	68.00	69.00	1.00	0.02	0.06	
			Q183848	69.00	70.00	1.00	0.31	0.07	
			Q183849	70.00	71.00	1.00	0.2	0.11	
			Q183850	71.00	72.00	1.00	0.06	0.07	
			Q183851	71.00	72.00	1.00	0.03	0.07	
			Q183852	72.00	73.00	1.00	0.04	0.06	
			Q183853	73.00	74.00	1.00	0.66	0.06	
			Q183854	74.00	75.00	1.00	1.38	0.04	
			Q183856	75.00	76.00	1.00	0.01	0.03	
			Q183857	76.00	77.00	1.00	0.04	0.03	
			Q183858	77.00	78.00	1.00	0.11	0.03	
			Q183859	78.00	79.00	1.00	0.06	0.04	
			Q183860	79.00	80.00	1.00	0.07	0.06	
			Q183861	80.00	81.00	1.00	0.81	0.07	
			Q183862	81.00	82.00	1.00	0.71	0.1	
			Q183863	82.00	83.00	1.00	0.07	0.14	
			Q183865	83.00	84.00	1.00	0.09	0.08	
			Q183866	84.00	85.00	1.00	0.08	0.07	
			Q183867	85.00	86.00	1.00	0.16	0.13	
			Q183868	86.00	87.00	1.00	0.07	0.1	
			Q183869	87.00	88.00	1.00	0.13	0.06	
			Q183870	88.00	89.00	1.00	0.11	0.05	
			Q183871	88.00	89.00	1.00	0.12	0.05	
			Q183872	89.00	90.00	1.00	0.12	0.05	
			Q183873	90.00	91.00	1.00	0.04	0.03	
			Q183874	91.00	92.00	1.00	0.05	0.07	
			Q183876	92.00	93.00	1.00	0.04	0.08	
			Q183877	93.00	93.73	0.73	0.09	0.07	
			Q183878	93.73	95.00	1.27	0.18	0.07	
			Q183879	95.00	96.00	1.00	0.23	0.07	
			Q183880	96.00	96.69	0.69	0.13	0.09	
			Q183881	96.69	97.81	1.12	0.1	0.07	
			Q183882	97.81	99.00	1.19	0.11	0.13	
			Q183883	99.00	100.00	1.00	0.03	0.15	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q183885	100.00	101.00	1.00	0.12	0.08	
		Q183886	101.00	102.00	1.00	0.2	0.09	
		Q183887	102.00	103.00	1.00	1.18	0.05	
		Q183888	103.00	104.00	1.00	0.5	0.06	
		Q183889	104.00	105.00	1.00	0.82	0.04	
		Q183890	105.00	106.00	1.00	0.22	0.13	
		Q183891	105.00	106.00	1.00	0.16	0.13	
		Q183892	106.00	107.00	1.00	0.22	0.15	
		Q183893	107.00	108.00	1.00	0.34	0.12	
		Q183894	108.00	109.00	1.00	1.23	0.07	
		Q183896	109.00	110.00	1.00	0.16	0.21	
		Q183897	110.00	111.00	1.00	0.15	0.19	
		Q183898	111.00	112.00	1.00	0.13	0.14	
		Q183899	112.00	113.00	1.00	0.22	0.15	
		Q183900	113.00	114.00	1.00	0.46	0.11	
		Q183901	114.00	115.00	1.00	0.37	0.14	
		Q183902	115.00	116.00	1.00	0.63	0.1	
		Q183903	116.00	117.00	1.00	0.5	0.15	
		Q183905	117.00	118.00	1.00	0.77	0.09	
		Q183906	118.00	119.00	1.00	1	0.1	
		Q183907	119.00	120.00	1.00	1.01	0.09	
		Q183908	120.00	121.00	1.00	0.69	0.1	
		Q183909	121.00	122.00	1.00	1.56	0.07	
		Q183910	122.00	122.84	0.84	1.53	0.11	
		Q183911	122.00	122.84	0.84	1.58	0.11	
		Q183912	122.84	124.00	1.16	3.72	0.09	
		Q183913	124.00	125.00	1.00	3.43	0.07	
		Q183914	125.00	126.00	1.00	0.81	0.11	
		Q183916	126.00	127.00	1.00	0.47	0.04	
		Q183917	127.00	128.00	1.00	0.15	0.09	
		Q183918	128.00	129.00	1.00	0.63	0.05	
		Q183919	129.00	130.00	1.00	1.36	0.04	
		Q183920	130.00	131.00	1.00	1.63	0.08	
		Q183921	131.00	132.00	1.00	0.53	0.24	
		Q183922	132.00	133.00	1.00	0.35	0.23	
		Q183923	133.00	134.00	1.00	0.3	0.2	
		Q183925	134.00	135.00	1.00	0.47	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q183926	135.00	136.00	1.00	0.4	0.22	
			Q183927	136.00	137.00	1.00	0.08	0.33	
			Q183928	137.00	138.00	1.00	0.08	0.14	
			Q183929	138.00	139.00	1.00	0.18	0.17	
			Q183930	139.00	140.00	1.00	0.06	0.22	
			Q183931	139.00	140.00	1.00	0.04	0.21	
			Q183932	140.00	141.00	1.00	0.61	0.14	
			Q183933	141.00	142.00	1.00	0.05	0.16	
			Q183934	142.00	143.00	1.00	0.36	0.16	
			Q183936	143.00	144.00	1.00	0.31	0.16	
			Q183937	144.00	145.00	1.00	0.25	0.22	
			Q183938	145.00	146.00	1.00	0.14	0.25	
			Q183939	146.00	147.00	1.00	0.44	0.2	
			Q183940	147.00	148.00	1.00	0.11	0.15	
			Q183941	148.00	149.35	1.35	0.04	0.13	
149.35	150.76	**GR Granite** Very light green and grey and pink. Felsic dyke or granite with 5-10% dark green 1mm round amphiboles. 149.40 hematite fracture at 20dca. Lower contact sharp at 35 dca.	Q183942	149.35	150.76	1.41	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
150.76	205.76	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Very minor graphite fracture filling. 167.33 to 167.63 Mafic dyke Upper Contact at 71 dca, Lower Contact at 61 dca. 168.08 to 168.54 Mafic dyke at 63 dca. 174.42 to 175.37 Fault zone at 71 dca. Malachite and chlorite and hematite fault gouge. 181.17 to 181.28 Mafic dyke at 81 dca. 186.00 to 192.00 Strongly fractured zone. Broken and blocky at 45 and 135 dca. 204.40 to 204.43 Fault at 59 dca. 205.55 2mm graphite gouge at 53 dca. 205.63 5mm graphite gouge at 58 dca. Lower contact at 63 dca.	Q183943	150.76	152.00	1.24	0.07	0.16	
			Q183945	152.00	153.00	1.00	0.08	0.21	2.59
			Q183946	153.00	154.00	1.00	0.15	0.23	2.63
			Q183947	154.00	155.00	1.00	0.09	0.21	2.65
			Q183948	155.00	156.00	1.00	0.4	0.23	2.63
			Q183949	156.00	157.00	1.00	0.15	0.2	2.57
			Q183950	157.00	158.00	1.00	0.02	0.15	2.63
			Q183951	157.00	158.00	1.00	0.04	0.17	
			Q183952	158.00	159.00	1.00	0.18	0.2	
			Q183953	159.00	160.00	1.00	0.43	0.21	
			Q183954	160.00	161.00	1.00	0.11	0.19	
			Q183956	161.00	162.00	1.00	0.17	0.26	
			Q183957	162.00	163.00	1.00	1.15	0.22	
			Q183958	163.00	164.00	1.00	0.08	0.25	
			Q183959	164.00	165.00	1.00	0.1	0.22	
			Q183960	165.00	166.00	1.00	0.29	0.11	
			Q183961	166.00	167.00	1.00	0.15	0.23	
			Q183962	167.00	167.33	0.33	0.21	0.25	
			Q183963	167.33	167.63	0.30	0.17	0.11	
			Q183965	167.63	168.08	0.45	0.3	0.26	
			Q183966	168.08	168.54	0.46	0.16	0.05	
			Q183967	168.54	169.00	0.46	0.09	0.26	
			Q183968	169.00	170.00	1.00	0.05	0.18	
			Q183969	170.00	171.00	1.00	0.03	0.14	
			Q183970	171.00	172.00	1.00	0.07	0.18	
			Q183972	172.00	173.00	1.00	0.05	0.21	
			Q183973	173.00	174.42	1.42	0.2	0.26	
			Q183974	174.42	175.37	0.95	1.8	0.42	
			Q183976	175.37	176.00	0.63	0.1	0.2	
			Q183977	176.00	177.00	1.00	0.04	0.21	
			Q183978	177.00	178.00	1.00	0.04	0.16	
			Q183979	178.00	179.00	1.00	0.18	0.15	
			Q183980	179.00	180.00	1.00	0.03	0.1	
			Q183981	180.00	181.00	1.00	0.15	0.17	
			Q183982	181.00	182.00	1.00	0.09	0.2	
			Q183983	182.00	183.00	1.00	0.09	0.21	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q183985	183.00	184.00	1.00	0.29	0.27	
		Q183986	184.00	185.00	1.00	0.92	0.28	
		Q183987	185.00	186.00	1.00	0.31	0.28	
		Q183988	186.00	187.00	1.00	0.27	0.13	
		Q183989	187.00	188.00	1.00	0.6	0.2	
		Q183990	188.00	189.00	1.00	0.75	0.18	
		Q183991	188.00	189.00	1.00	0.79	0.2	
		Q183992	189.00	190.00	1.00	0.25	0.18	
		Q183993	190.00	191.00	1.00	0.67	0.16	
		Q183994	191.00	192.00	1.00	0.34	0.24	
		Q183996	192.00	193.00	1.00	0.32	0.3	
		Q183997	193.00	194.00	1.00	0.25	0.31	
		Q183998	194.00	195.00	1.00	0.26	0.23	
		Q183999	195.00	196.00	1.00	0.26	0.28	
		Q184000	196.00	197.00	1.00	0.59	0.27	
		Q184001	197.00	198.00	1.00	0.29	0.18	
		Q184002	198.00	199.00	1.00	0.16	0.22	
		Q184003	199.00	200.00	1.00	0.24	0.18	
		Q184005	200.00	201.00	1.00	0.06	0.19	
		Q184006	201.00	202.00	1.00	0.12	0.22	
		Q184007	202.00	203.00	1.00	0.39	0.27	
		Q184008	203.00	204.00	1.00	1.01	0.28	
		Q184009	204.00	205.00	1.00	0.67	0.24	
		Q184011	205.00	205.76	0.76	0.79	0.28	
		Q184010	205.00	205.76	0.76	0.84	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
205.76 -	212.79	**GRPBX Graphitic Breccia** Dark grey to black with underlining orange tinge. Typical graphite breccia. Lower contact sharp at 55 dca.	Q184012	205.76	207.00	1.24	10.3	0.28	
			Q184013	207.00	208.00	1.00	8.39	0.39	
			Q184014	208.00	209.00	1.00	11.65	0.21	
			Q184016	209.00	210.00	1.00	12.7	0.26	
			Q184017	210.00	211.00	1.00	6.92	0.24	
			Q184018	211.00	212.00	1.00	10.9	0.25	
			Q184019	212.00	212.79	0.79	13.2	0.28	
212.79 -	218.35	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange tinge hidden deep within well mineralized graphite overprinting. Massive and very hard. Lower contact sharp at 33 dca.	Q184020	212.79	214.00	1.21	1.77	0.36	
			Q184021	214.00	215.00	1.00	1.18	0.23	
			Q184022	215.00	216.00	1.00	1.18	0.14	
			Q184023	216.00	217.00	1.00	1.02	0.15	
			Q184025	217.00	218.35	1.35	0.48	0.14	
218.35 -	222.20	**GRPBX Graphitic Breccia** Dark grey to black with underlining orange tinge. Typical graphite breccia. Lower contact sharp at 45 dca.	Q184026	218.35	219.00	0.65	3.12	0.22	
			Q184027	219.00	220.00	1.00	3.08	0.21	
			Q184028	220.00	221.00	1.00	10.75	0.2	
			Q184029	221.00	222.20	1.20	13.75	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.20 -	225.19	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange tinge hidden deep within well mineralized graphite overprinting. Massive and very hard. Lower contact sharp at 91 dca.	Q184031	222.20	223.00	0.80	0.85	0.33	
			Q184030	222.20	223.00	0.80	0.91	0.31	
			Q184032	223.00	224.00	1.00	0.21	0.29	
			Q184033	224.00	225.19	1.19	1.2	0.31	
225.19 -	232.92	**GRPBX Graphitic Breccia** Dark grey to black with underlining orange tinge. Typical graphite breccia. Lower contact sharp at 60 dca.	Q184034	225.19	226.00	0.81	4	0.3	
			Q184036	226.00	227.00	1.00	9.9	0.26	
			Q184037	227.00	228.00	1.00	9.56	0.22	
			Q184038	228.00	229.00	1.00	1.92	0.27	
			Q184039	229.00	230.00	1.00	13.2	0.34	
			Q184040	230.00	231.00	1.00	8.89	0.29	
			Q184041	231.00	232.00	1.00	11.25	0.3	
			Q184042	232.00	232.92	0.92	5.1	0.3	
232.92 -	233.93	**MDOP Mafic Dyke with Graphitic Overprinting** Chlorite biotite schist with 30% graphite breccia. Dark green to black. Which came first, the breccia or the dyke schist? And then the graphite. Well mineralized. Lower contact gradational and ripped up or mixed at 57 dca.	Q184043	232.92	233.93	1.01	4.29	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
233.93	238.74	**GRPBX Graphitic Breccia** Dark grey to black consisting of syenite and mafic fragments in well mineralized graphite matrix. 237.46 to 237.69 Mafic dyke, Upper Contact crosscutting at 131, Lower Contact at 77 dca. 238.50 to 238.74 Strongly fractured. Lower contact fractured.	Q184045	233.93	235.00	1.07	14.55	0.19	
			Q184046	235.00	236.00	1.00	15.95	0.22	
			Q184047	236.00	237.00	1.00	9.58	0.22	
			Q184048	237.00	238.00	1.00	8.59	0.22	
			Q184049	238.00	238.74	0.74	8.97	0.63	
238.74	249.12	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge of orthoclase. Massive and very hard. Local weak to moderate fracture filling graphite. 234.34 to 234.47 Fault at 45 dca. 246.81 to 246.85 graphite breccia at 49 dca. Lower contact fractured at 49 dca.	Q184051	238.74	240.00	1.26	0.6	0.1	
			Q184050	238.74	240.00	1.26	0.47	0.11	
			Q184052	240.00	241.00	1.00	0.21	0.12	
			Q184053	241.00	242.00	1.00	0.49	0.08	
			Q184054	242.00	243.00	1.00	0.62	0.2	
			Q184056	243.00	244.00	1.00	1.05	0.38	
			Q184057	244.00	245.00	1.00	1.49	0.26	
			Q184058	245.00	246.00	1.00	0.42	0.35	
			Q184059	246.00	247.00	1.00	0.78	0.34	
			Q184060	247.00	248.00	1.00	1.03	0.5	
			Q184061	248.00	249.12	1.12	0.54	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
249.12	287.69	**GRPBX Graphitic Breccia** Dark grey to black consisting of syenite and mafic fragments in well mineralized graphite matrix. Local minor syenite gneiss and dykes and local less mineralized areas. 255.15 to 255.66 Mafic dyke with well mineralized graphite fracture filling. Upper Contact at 63 dca, Lower Contact at 79 DCA. 259.27 to 259.33 Felsic Dyke at 79 dca. 261.65 to 262.26 Syenite Upper Contact at 49 dca, Lower Contact at 59 dca. 265.56 to 266.11 Intermediate dyke Upper Contact at 60 dca, Lower Contact at 101 dca. 266.17 to 266.18 Folded Felsic dyke at 70 dca. 266.52 to 267.16 Syenite Upper Contact at 81, Lower Contact at 75 dca. 270.50 to 270.67 Syenite at 55 dca. 270.67 to 270.90 Granite felsic dyke at 76 dca. 272.00 to 275.92 less mineralized. 278.52 to 282.45 less mineralized. 282.03 1 speck of copper? 285.08 to 287.69 less mineralized. Lower contact 1 cm quartz carbonate vein at 148 dca.	Q184062	249.12	250.00	0.88	10.05	0.22	
			Q184063	250.00	251.00	1.00	6.74	1.58	
			Q184065	251.00	252.00	1.00	12.8	0.42	2.66
			Q184066	252.00	253.00	1.00	10.55	0.27	2.67
			Q184067	253.00	254.00	1.00	3.58	0.36	2.63
			Q184068	254.00	255.12	1.12	2.86	0.34	2.63
			Q184069	255.12	255.66	0.54	3.22	0.82	2.73
			Q184070	255.66	256.00	0.34	4.82	0.3	2.63
			Q184071	255.66	256.00	0.34	4.77	0.31	
			Q184072	256.00	257.00	1.00	5.78	0.81	
			Q184073	257.00	258.00	1.00	10.45	0.27	
			Q184074	258.00	259.00	1.00	5.4	0.22	
			Q184076	259.00	260.00	1.00	7.64	0.32	
			Q184077	260.00	261.00	1.00	6.21	0.26	
			Q184078	261.00	261.65	0.65	5.85	0.2	
			Q184079	261.65	262.26	0.61	0.5	0.32	
			Q184080	262.26	263.00	0.74	5.07	0.28	
			Q184081	263.00	264.00	1.00	8.61	0.27	
			Q184082	264.00	265.00	1.00	8.31	0.29	
			Q184083	265.00	265.56	0.56	11.45	0.42	
			Q184085	265.56	266.11	0.55	1.79	0.09	
			Q184086	266.11	267.00	0.89	6.5	0.3	
			Q184087	267.00	268.00	1.00	4.58	0.37	
			Q184088	268.00	269.00	1.00	2.73	0.32	
			Q184089	269.00	270.00	1.00	5.37	0.28	
			Q184090	270.00	271.00	1.00	3.35	0.3	
			Q184091	270.00	271.00	1.00	3.45	0.27	
			Q184092	271.00	272.00	1.00	4.97	0.18	
			Q184093	272.00	273.00	1.00	1.36	0.42	
			Q184094	273.00	274.00	1.00	0.65	0.38	
			Q184096	274.00	275.00	1.00	2.91	0.35	
			Q184097	275.00	275.92	0.92	3.26	0.3	
			Q184098	275.92	277.00	1.08	4.46	0.29	
			Q184099	277.00	278.00	1.00	7.85	0.42	
			Q184100	278.00	278.52	0.52	4.44	0.34	
			Q184101	278.52	279.50	0.98	0.61	0.13	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q184102	279.50	280.50	1.00	0.41	0.5	
		Q184103	280.50	281.50	1.00	1.09	0.52	
		Q184105	281.50	282.45	0.95	1.93	0.36	
		Q184106	282.45	283.00	0.55	7.6	0.34	
		Q184107	283.00	284.00	1.00	5.71	0.27	
		Q184108	284.00	285.08	1.08	5.4	0.31	
		Q184109	285.08	286.00	0.92	2.33	0.36	
		Q184110	286.00	287.00	1.00	2.93	0.38	
		Q184111	286.00	287.00	1.00	2.79	0.38	
		Q184112	287.00	287.69	0.69	1.85	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
287.69	319.20	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange orthoclase tinge. Massive and very hard. This unit may be a granodiorite or quartz diorite due to salt and pepper texture and quartz but what about the orthoclase presence and likely occasional gneissic banding? Local minor fracture filling graphite. 293.13 to 293.19 Quartz vein at 29 dca. 293.43 to 293.66 Mafic dyke at 51dca UC and 37dca LC. 298.83 to 298.94 Chert? Vein at 141 dca. 307.28 to 307.30 Coppery (malachite?) & hematite fracture filling. Lower contact sharp at 121 dca.							
			Q184113	287.69	288.00	0.31	1.49	0.12	
			Q184114	288.00	289.00	1.00	7.62	0.21	
			Q184116	289.00	290.00	1.00	0.36	0.42	
			Q184117	290.00	291.00	1.00	0.8	0.36	
			Q184118	291.00	292.00	1.00	0.57	0.4	
			Q184119	292.00	293.00	1.00	0.31	0.37	
			Q184120	293.00	294.00	1.00	0.17	0.24	
			Q184121	294.00	295.00	1.00	0.35	0.36	
			Q184122	295.00	296.00	1.00	0.32	0.47	
			Q184123	296.00	297.00	1.00	0.06	0.31	
			Q184125	297.00	298.00	1.00	0.52	0.39	
			Q184126	298.00	299.00	1.00	0.36	0.36	
			Q184127	299.00	300.00	1.00	0.31	0.39	
			Q184128	300.00	301.00	1.00	0.16	0.33	
			Q184129	301.00	302.00	1.00	0.07	0.27	
			Q184131	302.00	303.00	1.00	0.08	0.2	
			Q184130	302.00	303.00	1.00	0.05	0.21	
			Q184132	303.00	304.00	1.00	0.43	0.17	
			Q184133	304.00	305.00	1.00	0.19	0.28	
			Q184134	305.00	306.00	1.00	0.19	0.26	
			Q184136	306.00	307.00	1.00	0.96	0.3	
			Q184137	307.00	308.00	1.00	0.3	0.15	
			Q184138	308.00	309.00	1.00	0.22	0.26	
			Q184139	309.00	310.00	1.00	0.22	0.23	
			Q184140	310.00	311.00	1.00	0.35	0.26	
			Q184141	311.00	312.00	1.00	0.2	0.29	
			Q184142	312.00	313.00	1.00	0.18	0.29	
			Q184143	313.00	314.00	1.00	0.45	0.29	
			Q184145	314.00	315.00	1.00	0.47	0.29	
			Q184146	315.00	316.00	1.00	0.36	0.25	
			Q184147	316.00	317.00	1.00	0.23	0.33	
			Q184148	317.00	318.00	1.00	0.23	0.37	
			Q184149	318.00	319.20	1.20	0.32	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
319.20	343.10	**DIOR Diorite** Dark green to dark grey. Mafic intrusive igneous rock. Lots of quartz that is under strain and stretched. Fine grained. Massive and very hard. Mafic intrusive or quartz diorite. 320.87 to 321.57 Felsic dyke. Pink and light green. At 23 dca. 323.58 to 324.49 Felsic dyke. Brecciated plagioclase. Crackled matrix of black glassy felsic material. Lower contact sharp at 51 dca.	Q184151	319.20	320.00	0.80	0.07	0.21	
			Q184150	319.20	320.00	0.80	0.14	0.2	
			Q184152	320.00	320.87	0.87	0.12	0.09	
			Q184153	320.87	321.57	0.70	0.02	0.04	
			Q184154	321.57	322.50	0.93	0.15	0.14	
			Q184156	322.50	323.58	1.08	0.39	0.14	2.72
			Q184157	323.58	324.49	0.91	0.45	0.19	2.59
			Q184158	324.49	325.50	1.01	0.19	0.07	2.72
			Q184159	325.50	327.00	1.50	0.34	0.06	2.73
			Q184160	327.00	328.50	1.50	0.32	0.09	2.71
			Q184161	328.50	330.00	1.50	0.33	0.13	
			Q184162	330.00	331.50	1.50	0.1	0.11	
			Q184163	331.50	333.00	1.50	0.13	0.1	
			Q184165	333.00	334.50	1.50	0.13	0.12	
			Q184166	334.50	336.00	1.50	0.14	0.11	
			Q184167	336.00	337.50	1.50	0.15	0.11	
			Q184168	337.50	339.00	1.50	0.18	0.12	
			Q184169	339.00	340.50	1.50	0.12	0.14	
			Q184170	340.50	342.00	1.50	0.17	0.13	
			Q184171	340.50	342.00	1.50	0.15	0.14	
			Q184172	342.00	343.10	1.10	0.14	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
343.10	363.00	**SYENSL Syenite Sill (unmineralized)** Light to dark green. Fine to medium grained. Massive and very hard, "gabbroic texture". Unit is some type of intermedite intrusive. 346 to 353 very strongly fractured. EOH 363.0m	Q184173	343.10	344.00	0.90	0.05	0.01	
			Q184174	344.00	345.00	1.00	0.08	0.01	
			Q184176	345.00	346.00	1.00	0.04	0.01	
			Q184177	346.00	347.00	1.00	0.17	0.07	
			Q184178	347.00	348.00	1.00	0.03	0.04	
			Q184179	348.00	349.00	1.00	0.02	0.08	
			Q184180	349.00	350.00	1.00	0.01	0.36	
			Q184181	350.00	351.00	1.00	0.01	0.13	
			Q184182	351.00	352.00	1.00	0.03	0.27	
			Q184183	352.00	353.00	1.00	0.02	0.06	
			Q184185	353.00	354.00	1.00	0.09	0.04	
			Q184186	354.00	355.00	1.00	0.05	0.06	
			Q184187	355.00	355.50	0.50	0.03	0.05	
			Q184188	355.50	356.00	0.50	0.01	0.03	
			Q184189	356.00	356.50	0.50	0.05	0.05	
			Q184190	356.50	357.00	0.50	0.02	0.05	
			Q184191	356.50	357.00	0.50	0.01	0.06	
			Q184192	357.00	357.50	0.50	0.01	0.05	
			Q184193	357.50	358.00	0.50	0.01	0.07	
			Q184194	358.00	359.00	1.00	0.02	0.03	
			Q184196	359.00	359.50	0.50	0.01	0.02	
			Q184197	359.50	360.00	0.50	0.01	0.04	
			Q184198	360.00	361.00	1.00	0.01	0.03	
			Q184199	361.00	362.00	1.00	0.01	0.04	
			Q184200	362.00	363.00	1.00	1.02	0.45	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	390.00	18/08/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545550	682858.4			Reflex APS	22/08/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.90	42.20		-50.40	Chibougamau Diamond Drilling	26/08/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	327	*Casing Pulled*	*Casing (1)*	63.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐		

Purpose	*Results*	*Comments*
Test the extention of the East Pipe to northwest at depth	242.87m - 310.90m graphite rich breccia units seperated by a small overprinted syenite unit and an over printed felsic dyke. The assays from 83.00m to 355.00m averaged 2.00% Cg over 272.00m; within this intersection a higher grade graphite zone from 186.00m to 341.00m averaged 3.09% Cg over 155.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
78.00			48.4	39.4	-51.2	-51.2	☑	Reflex EZ	56436	
81.00			48.1	39.1	-51.1	-51.1	☑	Reflex EZ	56260	
84.00			48.1	39.1	-51	-51	☑	Reflex EZ	56221	
87.00			48.4	39.4	-51	-51	☑	Reflex EZ	56218	
90.00			49	40	-51.1	-51.1	☑	Reflex EZ	56172	
93.00			48.3	39.3	-51	-51	☑	Reflex EZ	56188	
96.00			48.9	39.9	-51.2	-51.2	☑	Reflex EZ	56216	
99.00			49	40	-51.2	-51.2	☑	Reflex EZ	56184	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
102.00			48.2	39.2	-51.1	-51.1	☑	Reflex EZ	56092	
105.00			49.5	40.5	-51.2	-51.2	☑	Reflex EZ	56187	
111.00			49.1	40.1	-51.2	-51.2	☑	Reflex EZ	56176	
114.00			48.6	39.6	-51.2	-51.2	☑	Reflex EZ	56127	
117.00			49.6	40.6	-51.2	-51.2	☑	Reflex EZ	56222	
120.00			48.6	39.6	-51.1	-51.1	☑	Reflex EZ	56083	
123.00			49	40	-51.2	-51.2	☑	Reflex EZ	56162	
126.00			48.9	39.9	-51.2	-51.2	☑	Reflex EZ	56115	
129.00			48.8	39.8	-51.1	-51.1	☑	Reflex EZ	56075	
132.00			49.9	40.9	-51.2	-51.2	☑	Reflex EZ	56221	
135.00			49.2	40.2	-51.2	-51.2	☑	Reflex EZ	56131	
138.00			49.2	40.2	-51.1	-51.1	☑	Reflex EZ	56093	
141.00			49	40	-51.1	-51.1	☑	Reflex EZ	56063	
144.00			49	40	-50.9	-50.9	☑	Reflex EZ	56134	
147.00			50	41	-51.1	-51.1	☑	Reflex EZ	56205	
150.00			49.6	40.6	-51.1	-51.1	☑	Reflex EZ	56142	
153.00			49.2	40.2	-51	-51	☑	Reflex EZ	56128	
156.00			48.9	39.9	-50.9	-50.9	☑	Reflex EZ	56068	
159.00			49.2	40.2	-51	-51	☑	Reflex EZ	56119	
162.00			49.2	40.2	-51	-51	☑	Reflex EZ	56081	
165.00			49.8	40.8	-51	-51	☑	Reflex EZ	56278	
168.00			50.2	41.2	-51.2	-51.2	☑	Reflex EZ	56253	
171.00			49.5	40.5	-51.1	-51.1	☑	Reflex EZ	56068	
174.00			49.4	40.4	-51	-51	☑	Reflex EZ	56246	
177.00			48.9	39.9	-50.8	-50.8	☑	Reflex EZ	56079	
180.00			49.2	40.2	-50.9	-50.9	☑	Reflex EZ	56075	
183.00			49.4	40.4	-51	-51	☑	Reflex EZ	56029	
186.00			49.4	40.4	-51	-51	☑	Reflex EZ	56050	
189.00			50.1	41.1	-51.1	-51.1	☑	Reflex EZ	56188	
192.00			50.5	41.5	-51.1	-51.1	☑	Reflex EZ	56164	
195.00			49.5	40.5	-51	-51	☑	Reflex EZ	56100	
198.00			49.5	40.5	-50.9	-50.9	☑	Reflex EZ	56079	
201.00			50.2	41.2	-51	-51	☑	Reflex EZ	56240	
204.00			50.1	41.1	-51.1	-51.1	☑	Reflex EZ	56175	
207.00			49.5	40.5	-50.9	-50.9	☑	Reflex EZ	56102	
210.00			50.4	41.4	-51.1	-51.1	☑	Reflex EZ	56150	
213.00			50.6	41.6	-51.1	-51.1	☑	Reflex EZ	56193	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
216.00			49.6	40.6	-50.9	-50.9	☑	Reflex EZ	56042	
222.00			49.9	40.9	-51	-51	☑	Reflex EZ	55800	
237.00			50	41	-51.1	-51.1	☑	Reflex EZ	56258	
240.00			49.5	40.5	-50.8	-50.8	☑	Reflex EZ	56168	
243.00			50.4	41.4	-51.1	-51.1	☑	Reflex EZ	56444	
246.00			49.9	40.9	-50.9	-50.9	☑	Reflex EZ	56273	
249.00			50.2	41.2	-51	-51	☑	Reflex EZ	56234	
252.00			50.1	41.1	-51.1	-51.1	☑	Reflex EZ	56207	
255.00			50.3	41.3	-51	-51	☑	Reflex EZ	56218	
258.00			50.6	41.6	-51.1	-51.1	☑	Reflex EZ	56260	
261.00			49.8	40.8	-51	-51	☑	Reflex EZ	56210	
264.00			49.6	40.6	-50.9	-50.9	☑	Reflex EZ	56220	
267.00			50.2	41.2	-51.1	-51.1	☑	Reflex EZ	56251	
270.00			50.6	41.6	-51.1	-51.1	☑	Reflex EZ	56313	
273.00			49.8	40.8	-51	-51	☑	Reflex EZ	56202	
276.00			50.5	41.5	-51.1	-51.1	☑	Reflex EZ	56266	
279.00			50.4	41.4	-51.2	-51.2	☑	Reflex EZ	56195	
282.00			50.1	41.1	-51.1	-51.1	☑	Reflex EZ	56234	
285.00			49.5	40.5	-50.9	-50.9	☑	Reflex EZ	56230	
288.00			50.6	41.6	-51.2	-51.2	☑	Reflex EZ	56286	
291.00			49.5	40.5	-51	-51	☑	Reflex EZ	56226	
294.00			50.4	41.4	-51.2	-51.2	☑	Reflex EZ	56269	
297.00			49.8	40.8	-51	-51	☑	Reflex EZ	56232	
300.00			50.1	41.1	-51.1	-51.1	☑	Reflex EZ	56231	
303.00			49.9	40.9	-51.2	-51.2	☑	Reflex EZ	56198	
306.00			50.8	41.8	-51.4	-51.4	☑	Reflex EZ	56276	
309.00			50.4	41.4	-51.4	-51.4	☑	Reflex EZ	56209	
312.00			50.8	41.8	-51.4	-51.4	☑	Reflex EZ	56255	
315.00			50.3	41.3	-51.2	-51.2	☑	Reflex EZ	56229	
318.00			50.8	41.8	-51.4	-51.4	☑	Reflex EZ	56313	
321.00			50.5	41.5	-51.4	-51.4	☑	Reflex EZ	56313	
324.00			50.9	41.9	-51.4	-51.4	☑	Reflex EZ	56301	
327.00			50.2	41.2	-51.3	-51.3	☑	Reflex EZ	56223	
330.00			51.3	42.3	-51.5	-51.5	☑	Reflex EZ	56175	
333.00			50.5	41.5	-51.4	-51.4	☑	Reflex EZ	56247	
336.00			50.6	41.6	-51.4	-51.4	☑	Reflex EZ	56235	
339.00			50.8	41.8	-51.3	-51.3	☑	Reflex EZ	56271	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
345.00			50.7	41.7	-51.3	-51.3	☑	Reflex EZ	56256	
351.00			51.1	42.1	-51.3	-51.3	☑	Reflex EZ	56276	
354.00			51.3	42.3	-51.5	-51.5	☑	Reflex EZ	56312	
357.00			51.8	42.8	-51.5	-51.5	☑	Reflex EZ	56312	
363.00			52.1	43.1	-51.3	-51.3	☑	Reflex EZ	56205	
366.00			51.5	42.5	-51.5	-51.5	☑	Reflex EZ	56461	
369.00			51.4	42.4	-51.5	-51.5	☑	Reflex EZ	56327	
372.00			52.1	43.1	-51.5	-51.5	☑	Reflex EZ	56264	
375.00			52.4	43.4	-51.5	-51.5	☑	Reflex EZ	56379	
381.00			51.7	42.7	-51.4	-51.4	☑	Reflex EZ	56139	
384.00			51.8	42.8	-51.2	-51.2	☑	Reflex EZ	56480	
387.00			52.3	43.3	-51.4	-51.4	☑	Reflex EZ	56323	
390.00			52.7	43.7	-51.4	-51.4	☑	Reflex EZ	56242	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	57.27	**OB Overburden** Unknown overburden							
57.27	61.24	**SED Sediment** Limestone. Broken and blocky. Light grey to pale bleached near white. Very fine grained. Lower contact unconformity.							
61.24	80.37	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Local minor fracture filling graphite. Unit is less fractured and weathered than most top of the hole syenites. 65.46 to 65.58 Fault gouge at Upper Contact 81 dca Lower Contact 74 dca. Moderate fractures and not as many faults. Lower contact sharp at 129 dca.	Q184201	61.24	62.00	0.76	0.13	0.05	
			Q184202	62.00	63.00	1.00	0.2	0.03	
			Q184203	63.00	64.00	1.00	0.08	0.04	
			Q184205	64.00	65.00	1.00	0.05	0.02	2.61
			Q184206	65.00	66.00	1.00	0.11	0.01	2.56
			Q184207	66.00	67.00	1.00	0.09	0.04	2.6
			Q184208	67.00	68.00	1.00	0.21	0.04	2.61
			Q184209	68.00	69.00	1.00	0.09	0.07	2.62
			Q184211	69.00	70.00	1.00	0.06	0.11	
			Q184210	69.00	70.00	1.00	0.04	0.1	
			Q184212	70.00	71.00	1.00	0.12	0.07	
			Q184213	71.00	72.00	1.00	0.12	0.01	
			Q184214	72.00	73.00	1.00	0.13	0.01	
			Q184216	73.00	74.00	1.00	0.17	0.1	
			Q184217	74.00	75.00	1.00	0.16	0.05	
			Q184218	75.00	76.00	1.00	0.13	0.01	
			Q184219	76.00	77.00	1.00	0.16	0.04	
			Q184220	77.00	78.00	1.00	0.11	0.02	
			Q184221	78.00	79.00	1.00	0.05	0.05	
			Q184222	79.00	80.37	1.37	0.15	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
80.37	85.52	**SYENOP Syenite with Graphitic Overprinting** Weakly sheared syenite gneiss . Grey with orange tinge. Weakly stretched quartz. Slightly weathered. Massive and very hard. Lower contact sharp at 119 dca.	Q184223	80.37	81.00	0.63	0.29	0.02	
			Q184225	81.00	82.00	1.00	0.29	0.01	
			Q184226	82.00	83.00	1.00	0.28	0.01	
			Q184227	83.00	84.00	1.00	0.76	0.01	
			Q184228	84.00	85.00	1.00	0.3	0.05	
			Q184229	85.00	85.52	0.52	0.27	0.02	
85.52	97.84	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. 97.03 3cm graphite vein fracture filling. At 19 dca. Lower contact sharp at 49 dca.	Q184231	85.52	86.00	0.48	0.04	0.02	
			Q184230	85.52	86.00	0.48	0.06	0.02	
			Q184232	86.00	87.00	1.00	0.25	0.02	
			Q184233	87.00	88.00	1.00	0.09	0.04	
			Q184234	88.00	89.00	1.00	0.12	0.05	
			Q184236	89.00	90.00	1.00	0.15	0.09	
			Q184237	90.00	91.00	1.00	0.23	0.03	
			Q184238	91.00	92.00	1.00	0.15	0.11	
			Q184239	92.00	93.00	1.00	0.12	0.07	
			Q184240	93.00	94.00	1.00	0.11	0.04	
			Q184241	94.00	95.00	1.00	0.09	0.06	
			Q184242	95.00	96.00	1.00	0.08	0.11	
			Q184243	96.00	97.00	1.00	0.21	0.06	
			Q184245	97.00	97.84	0.84	1.87	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
97.84	101.14	**ID Intermediate Dyke** Light green with orange tinge. Massive and very hard. Unit is equigranular with amphibole and orthoclase and some plagioclase. Unit may be a diorite but finer grained than most. Lower contact sharp at 53 dca.	Q184246	97.84	99.00	1.16	0.03	0.01	
			Q184247	99.00	100.00	1.00	0.02	0.01	
			Q184248	100.00	101.14	1.14	0.03	0.01	
101.14	107.55	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical. Lower contact sharp at 53 dca.	Q184249	101.14	102.00	0.86	0.08	0.19	
			Q184251	102.00	103.00	1.00	0.07	0.23	
			Q184250	102.00	103.00	1.00	0.08	0.23	
			Q184252	103.00	104.00	1.00	0.06	0.16	
			Q184253	104.00	105.00	1.00	0.13	0.16	
			Q184254	105.00	106.00	1.00	0.13	0.2	
			Q184256	106.00	107.00	1.00	0.07	0.22	
			Q184257	107.00	107.55	0.55	0.38	0.12	
107.55	109.58	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green Biotite chlorite amphibole mafic dyke with fracture filling graphite. Weakly foliated at 45 dca. Mostly massive. Moderately hard. 108.19 to 108.28 Quartz vein at 112 to 130 dca. Lower contact sharp at 29 dca.	Q184258	107.55	108.50	0.95	0.16	0.04	
			Q184259	108.50	109.58	1.08	0.2	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
109.58	117.11	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss. Lower contact sharp at 81 dca.	Q184260	109.58	110.00	0.42	0.28	0.13	
			Q184261	110.00	111.00	1.00	0.18	0.15	
			Q184262	111.00	112.00	1.00	1.12	0.12	
			Q184263	112.00	113.00	1.00	0.34	0.14	
			Q184265	113.00	114.00	1.00	0.18	0.13	
			Q184266	114.00	115.00	1.00	0.06	0.1	
			Q184267	115.00	116.00	1.00	0.07	0.14	
			Q184268	116.00	117.11	1.11	0.56	0.1	
117.11	118.66	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green. Moderately hard and massive. Minor biotite and chlorite. Lower contact sharp at 38 dca.	Q184269	117.11	118.00	0.89	0.21	0.1	
			Q184271	118.00	118.66	0.66	0.37	0.12	
			Q184270	118.00	118.66	0.66	0.37	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
118.66	137.52	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Typical syenite gneiss. Lower contact sharp at 113 dca.	Q184272	118.66	119.00	0.34	0.79	0.13	
			Q184273	119.00	120.00	1.00	0.11	0.05	
			Q184274	120.00	121.00	1.00	0.08	0.1	
			Q184276	121.00	122.00	1.00	0.22	0.15	
			Q184277	122.00	123.00	1.00	0.36	0.13	
			Q184278	123.00	124.00	1.00	0.81	0.11	
			Q184279	124.00	125.00	1.00	0.38	0.16	
			Q184280	125.00	126.00	1.00	0.14	0.15	
			Q184281	126.00	127.00	1.00	0.35	0.15	
			Q184282	127.00	128.00	1.00	1.66	0.2	
			Q184283	128.00	129.00	1.00	1.37	0.23	
			Q184285	129.00	130.00	1.00	0.81	0.2	
			Q184286	130.00	131.00	1.00	0.7	0.16	
			Q184287	131.00	132.00	1.00	0.21	0.13	
			Q184288	132.00	133.00	1.00	0.1	0.13	
			Q184289	133.00	134.00	1.00	0.07	0.13	
			Q184290	134.00	135.00	1.00	0.26	0.12	
			Q184291	134.00	135.00	1.00	0.26	0.11	
			Q184292	135.00	136.00	1.00	0.48	0.16	
			Q184293	136.00	137.00	1.00	0.12	0.14	
			Q184294	137.00	137.52	0.52	0.61	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
137.52	149.80	**GRDROP Granodiorite with Graphitic Overprinting** Grey to dark grey. Massive with weak stretching of quartz. Unit likely a quartz diorite. Very hard.	Q184296	137.52	138.00	0.48	1.3	0.11	
			Q184297	138.00	139.00	1.00	1.12	0.1	2.72
			Q184298	139.00	140.00	1.00	1	0.12	2.73
			Q184299	140.00	141.00	1.00	1.82	0.16	2.69
			Q184300	141.00	142.00	1.00	2.62	0.26	2.62
			Q184301	142.00	143.00	1.00	0.48	0.15	2.72
			Q184302	143.00	144.00	1.00	0.36	0.18	
			Q184303	144.00	145.00	1.00	1.01	0.14	
			Q184305	145.00	146.00	1.00	1	0.12	
			Q184306	146.00	147.00	1.00	0.18	0.14	
			Q184307	147.00	148.00	1.00	0.36	0.16	
			Q184308	148.00	149.00	1.00	0.57	0.2	
			Q184309	149.00	149.80	0.80	0.87	0.13	
149.80	162.34	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. 154.00 to 156.00 Fractured healed fault zone. Healed fracture of 2mm calcite at 0 degrees with numerous fracture filling graphite cracks. 160.42 to160.48 Granite dyke or gneiss band at 46 dca. Lower contact sharp at 87 dca.	Q184311	149.80	151.00	1.20	0.54	0.33	
			Q184310	149.80	151.00	1.20	0.5	0.32	
			Q184312	151.00	152.00	1.00	0.33	0.29	
			Q184313	152.00	153.00	1.00	0.87	0.29	
			Q184314	153.00	154.00	1.00	0.55	0.28	
			Q184316	154.00	155.00	1.00	2.99	0.13	
			Q184317	155.00	156.00	1.00	3.79	0.13	
			Q184318	156.00	157.00	1.00	0.78	0.28	
			Q184319	157.00	158.00	1.00	0.54	0.32	
			Q184320	158.00	159.00	1.00	0.35	0.31	
			Q184321	159.00	160.00	1.00	0.14	0.26	
			Q184322	160.00	161.00	1.00	0.12	0.19	
			Q184323	161.00	162.34	1.34	1.02	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
162.34	163.11	**MDOP Mafic Dyke with Graphitic Overprinting** Green to dark green. Massive and moderately hard. 10% breccia with graphite. Lower contact sharp at 75 dca.	Q184325	162.34	163.11	0.77	0.82	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
163.11	212.10	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. 175.51 to 175.59 Granite dyke or gneiss band at 45 dca. 179.10 to 180.00 Mafic dyke Strongly fractured, Upper Contact at 65 dca, Lower Contact at 77 dca. 184.00 to 187.00 strongly fractured fault zone. 186.97 to 187.00 Fault gouge at 67 dca. 188.80 to 18909 Graphite breccia, Upper Contact at 119, Lower Contact at 107 dca. 192.44 to 192.65 Mafic dyke at 73 dca. 208.62 to 208.69 Fault gouge with chlorite alteration at 66 dca. Lower contact at 43 dca.	Q184326	163.11	164.00	0.89	0.13	0.19	
			Q184327	164.00	165.00	1.00	0.09	0.16	
			Q184328	165.00	166.00	1.00	0.03	0.12	
			Q184329	166.00	167.00	1.00	0.02	0.16	
			Q184330	167.00	168.00	1.00	0.21	0.16	
			Q184331	167.00	168.00	1.00	0.18	0.16	
			Q184332	168.00	169.00	1.00	0.01	0.05	
			Q184333	169.00	170.00	1.00	0.01	0.05	
			Q184334	170.00	171.00	1.00	0.01	0.04	
			Q184336	171.00	172.00	1.00	0.01	0.09	
			Q184337	172.00	173.00	1.00	0.01	0.13	
			Q184338	173.00	174.00	1.00	0.03	0.18	
			Q184339	174.00	175.00	1.00	0.13	0.21	
			Q184340	175.00	176.00	1.00	0.09	0.23	
			Q184341	176.00	177.00	1.00	0.01	0.19	
			Q184342	177.00	178.00	1.00	0.1	0.19	
			Q184343	178.00	179.10	1.10	0.05	0.24	
			Q184345	179.10	180.00	0.90	1.45	0.03	
			Q184346	180.00	181.00	1.00	1.4	0.19	
			Q184347	181.00	182.00	1.00	0.23	0.31	
			Q184348	182.00	183.00	1.00	0.25	0.3	
			Q184349	183.00	184.00	1.00	0.81	0.28	
			Q184350	184.00	185.00	1.00	1.51	0.29	
			Q184351	184.00	185.00	1.00	1.52	0.29	
			Q184352	185.00	186.00	1.00	1.14	0.26	
			Q184353	186.00	187.00	1.00	2.67	0.22	
			Q184354	187.00	188.00	1.00	2.22	0.29	
			Q184356	188.00	188.80	0.80	0.71	0.26	
			Q184357	188.80	189.09	0.29	5.71	0.41	
			Q184358	189.09	190.00	0.91	1.45	0.43	
			Q184359	190.00	191.00	1.00	0.82	0.32	
			Q184360	191.00	192.00	1.00	0.33	0.28	
			Q184361	192.00	193.00	1.00	0.18	0.2	
			Q184362	193.00	194.00	1.00	0.06	0.28	
			Q184363	194.00	195.00	1.00	0.06	0.24	
			Q184365	195.00	196.00	1.00	0.18	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q184366	196.00	197.00	1.00	0.41	0.22	
			Q184367	197.00	198.00	1.00	0.02	0.17	
			Q184368	198.00	199.00	1.00	0.69	0.31	
			Q184369	199.00	200.00	1.00	0.12	0.32	
			Q184371	200.00	201.00	1.00	0.3	0.3	
			Q184370	200.00	201.00	1.00	0.28	0.31	
			Q184372	201.00	202.00	1.00	0.73	0.35	
			Q184373	202.00	203.00	1.00	1.26	0.24	
			Q184374	203.00	204.00	1.00	0.2	0.31	
			Q184376	204.00	205.00	1.00	0.51	0.25	
			Q184377	205.00	206.00	1.00	0.84	0.2	
			Q184378	206.00	207.00	1.00	1.25	0.12	
			Q184379	207.00	208.00	1.00	0.17	0.28	
			Q184380	208.00	209.00	1.00	0.29	0.23	
			Q184381	209.00	210.00	1.00	0.88	0.32	
			Q184382	210.00	211.00	1.00	0.44	0.25	
			Q184383	211.00	212.10	1.10	0.28	0.26	
212.10	213.00	**FD Felsic Dyke** Very dark grey to purple/blue. Very fine grained to aphanitic. Very hard and glassy. No visible phenocrysts. Weak chlorite alteration. Lower contact at 65 dca.	Q184385	212.10	213.00	0.90	0.04	0.24	
213.00	214.74	**OD Olivine Diabase** Light green (olive tinge). Fine to medium grained diorite with 70% amphibole 30% quartz. Massive intrusive unit. Hard to very hard. Lower contact at 59 dca.	Q184386	213.00	214.00	1.00	0.04	0.03	
			Q184387	214.00	214.74	0.74	0.07	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
214.74	242.87	**SYENOP Syenite with Graphitic Overprinting** Light to darker grey with orange tinge. Massive and very hard. 223.91 to 224.34 Mafic dyke, Upper Contact fractured at 55, Lower Contact fractured at 70 dca. 227.64 to 227.98 Graphite breccia at 101 dca. 241.51 to 242.22 Pink granite felsic dyke, UC at 43 dca, LC at 47 dca.	Q184388	214.74	216.00	1.26	1.26	0.29	
			Q184389	216.00	217.00	1.00	0.32	0.35	
			Q184390	217.00	218.00	1.00	0.53	0.39	
			Q184391	217.00	218.00	1.00	0.54	0.39	
			Q184392	218.00	219.00	1.00	0.64	0.4	
			Q184393	219.00	220.00	1.00	2.21	0.4	
			Q184394	220.00	221.00	1.00	2.75	0.38	
			Q184396	221.00	222.00	1.00	0.56	0.36	
			Q184397	222.00	223.00	1.00	1.65	0.34	
			Q184398	223.00	223.91	0.91	1.17	0.44	
			Q184399	223.91	225.00	1.09	0.59	0.31	
			Q184400	225.00	226.00	1.00	0.5	0.38	
			Q184401	226.00	227.00	1.00	0.49	0.28	
			Q184402	227.00	227.64	0.64	14	0.28	
			Q184403	227.64	227.98	0.34	0.47	0.42	
			Q184405	227.98	229.00	1.02	0.63	0.43	
			Q184406	229.00	230.00	1.00	0.48	0.38	
			Q184407	230.00	231.00	1.00	0.58	0.22	
			Q184408	231.00	232.00	1.00	0.66	0.24	
			Q184409	232.00	233.00	1.00	0.76	0.18	
			Q184410	233.00	234.00	1.00	0.2	0.37	
			Q184411	233.00	234.00	1.00	0.2	0.39	
			Q184412	234.00	235.00	1.00	0.24	0.38	
			Q184413	235.00	236.00	1.00	0.16	0.32	
			Q184414	236.00	237.00	1.00	2.17	0.33	
			Q184416	237.00	238.00	1.00	0.37	0.28	
			Q184417	238.00	239.00	1.00	0.23	0.3	
			Q184418	239.00	240.00	1.00	0.15	0.37	
			Q184419	240.00	241.00	1.00	0.57	0.29	
			Q184420	241.00	241.51	0.51	0.57	0.36	
			Q184421	241.51	242.22	0.71	0.01	0.9	
			Q184422	242.22	242.87	0.65	1.09	0.41	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
242.87	281.36	**GRPBX Graphitic Breccia** Grey to dark grey to black. Well mineralized graphite matrix with 1mm to 10cm rounded to subrounded fragments of syenite. 280.18 to 280.46 Pink to orange granite felsic dyke at 47 dca. Lower contact at	Q184423	242.87	244.00	1.13	6.06	0.29	
			Q184425	244.00	245.00	1.00	5.93	0.37	2.63
			Q184426	245.00	246.00	1.00	8.61	0.28	2.56
			Q184427	246.00	247.00	1.00	2.46	0.39	2.64
			Q184428	247.00	248.00	1.00	2.76	0.33	2.6
			Q184429	248.00	249.00	1.00	4.34	0.31	2.61
			Q184430	249.00	250.00	1.00	10.05	0.28	
			Q184431	249.00	250.00	1.00	9.44	0.28	
			Q184432	250.00	251.00	1.00	7.05	0.32	
			Q184433	251.00	252.00	1.00	5.08	0.37	
			Q184434	252.00	253.00	1.00	5.31	0.36	
			Q184436	253.00	254.00	1.00	6.91	0.35	
			Q184437	254.00	255.00	1.00	18.55	0.34	
			Q184438	255.00	256.00	1.00	6.07	0.28	
			Q184439	256.00	257.00	1.00	9.45	0.31	
			Q184440	257.00	258.00	1.00	6.16	0.35	
			Q184441	258.00	259.00	1.00	1.66	0.36	
			Q184442	259.00	260.00	1.00	1.72	0.31	
			Q184443	260.00	261.00	1.00	1.51	0.44	
			Q184445	261.00	262.00	1.00	3.06	0.39	
			Q184446	262.00	263.00	1.00	4.29	0.29	
			Q184447	263.00	264.00	1.00	9.06	0.27	
			Q184448	264.00	265.00	1.00	9.4	0.25	
			Q184449	265.00	266.00	1.00	6.57	0.27	
			Q184450	266.00	267.00	1.00	10.05	0.27	
			Q184451	266.00	267.00	1.00	9.85	0.28	
			Q184452	267.00	268.00	1.00	4.02	0.35	
			Q184453	268.00	269.00	1.00	13.3	0.33	
			Q184454	269.00	270.00	1.00	7.42	0.32	
			Q184456	270.00	271.00	1.00	7.36	0.27	
			Q184457	271.00	272.00	1.00	3.39	0.3	
			Q184458	272.00	273.00	1.00	1.82	0.34	
			Q184459	273.00	274.00	1.00	1.17	0.34	
			Q184460	274.00	275.00	1.00	1.03	0.38	
			Q184461	275.00	276.00	1.00	0.93	0.33	
			Q184462	276.00	277.00	1.00	1.03	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q184463	277.00	278.00	1.00	2.35	0.37	
			Q184465	278.00	279.00	1.00	2.7	0.36	
			Q184466	279.00	280.00	1.00	1.57	0.39	
			Q184467	280.00	281.00	1.00	2.83	0.55	
			Q184468	281.00	281.36	0.36	15.7	0.42	
281.36	282.64	**SYENOP Syenite with Graphitic Overprinting** Light to darker grey with orange tinge. Massive and very hard. Lower contact sharp at 130 dca.	Q184469	281.36	282.64	1.28	0.96	0.37	
282.64	294.04	**GRPBX Graphitic Breccia** Dark grey to black with occasional green tinge of chlorite biotite graphite mix. 284.14 to 284.37 Crackled plagioclase fragment at 56 dca. 284.37 to 284.49 Dark green mafic fragments. 287.18 irregular chlorite biotite fragments. 290.29 to 290.94 Orange medium grained felsic intrusive. Upper Contact at 47, Lower Contact at 59 dca. 292.32 Fault at 59 dca. 292.66 Fault at 56 dca. Lower contact sharp 2mm calcite vein at 63 dca.	Q184471	282.64	283.00	0.36	12.4	0.2	
			Q184470	282.64	283.00	0.36	12.45	0.2	
			Q184472	283.00	284.14	1.14	15.5	0.11	
			Q184473	284.14	285.00	0.86	10.5	0.17	
			Q184474	285.00	286.00	1.00	3.2	0.21	
			Q184476	286.00	287.00	1.00	3.13	0.2	
			Q184477	287.00	288.00	1.00	1.05	0.06	
			Q184478	288.00	289.00	1.00	5.61	0.04	
			Q184479	289.00	290.29	1.29	3.05	0.28	
			Q184480	290.29	290.94	0.65	0.01	1.08	
			Q184481	290.94	292.00	1.06	9.1	0.17	
			Q184482	292.00	293.00	1.00	10.7	0.25	
			Q184483	293.00	294.04	1.04	4.92	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
294.04	296.12	**FDOP Felsic Dyke with Graphitic Overprinting** Very dark grey to olive green. Unit is glassy to start and fine grained and then grades to biotite and green alteration. Some fracture filling graphite. 295.08 to 295.10 Pink felsic dyke at 60 dca. 295.44 to 295.54 Pink felsic dyke at 61 dca. Lower contact at 121 dca but alteration and or dyking continues for some cross cutting into breccia at 0 dca.	Q184485	294.04	295.00	0.96	1.07	0.24	
			Q184486	295.00	296.12	1.12	0.49	0.05	
296.12	310.90	**GRPBX Graphitic Breccia** Dark grey to black. Unit consists of 60% Graphite breccia and 40% well overprinted syenite gneiss or granodiorite. Lower contact fractured and crosscutting to the south at 11 dca.	Q184487	296.12	297.00	0.88	8.58	0.18	
			Q184488	297.00	298.00	1.00	5.53	0.15	
			Q184489	298.00	299.00	1.00	2.74	0.23	
			Q184490	299.00	300.00	1.00	4.85	0.35	
			Q184491	299.00	300.00	1.00	4.92	0.36	
			Q184492	300.00	301.00	1.00	6.82	0.19	
			Q184493	301.00	302.00	1.00	3.8	0.33	
			Q184494	302.00	303.00	1.00	4.7	0.35	
			Q184496	303.00	304.00	1.00	6.73	0.26	
			Q184497	304.00	305.00	1.00	7.35	0.27	
			Q184498	305.00	306.00	1.00	2.48	0.38	
			Q184499	306.00	307.00	1.00	2.97	0.37	
			Q184500	307.00	308.00	1.00	1.81	0.45	
			Q184501	308.00	309.00	1.00	6.53	0.36	
			Q184502	309.00	310.00	1.00	13.05	0.28	
			Q184503	310.00	310.90	0.90	15.5	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
310.90	328.82	**GRDROP Granodiorite with Graphitic Overprinting** Light grey with orange and green tinge. Medium grained massive and very hard unit that has more quartz than upper syenite gneissic units. 311.95 to 312.59 Mafic dyke, Upper Contact 121 dca, Lower Contact at 61 dca. 314.74 to 314.91 Fault at 53 dca. Lower contact gradational at 57 dca.	Q184505	310.90	311.95	1.05	0.4	0.29	
			Q184506	311.95	312.59	0.64	5.28	1.53	
			Q184507	312.59	313.00	0.41	0.86	0.42	
			Q184508	313.00	314.00	1.00	0.44	0.47	
			Q184509	314.00	315.00	1.00	1.16	1.25	
			Q184510	315.00	316.00	1.00	0.89	0.38	
			Q184511	315.00	316.00	1.00	0.82	0.35	
			Q184512	316.00	317.00	1.00	0.09	0.29	
			Q184513	317.00	318.00	1.00	0.06	0.32	
			Q184514	318.00	319.00	1.00	0.09	0.36	
			Q184516	319.00	320.00	1.00	0.09	0.42	
			Q184517	320.00	321.00	1.00	0.01	0.29	
			Q184518	321.00	322.00	1.00	0.02	0.55	
			Q184519	322.00	323.00	1.00	0.13	0.68	
			Q184520	323.00	324.00	1.00	0.83	0.62	
			Q184521	324.00	325.00	1.00	0.36	0.48	
			Q184522	325.00	326.00	1.00	0.74	0.69	
			Q184523	326.00	327.00	1.00	0.5	0.42	
			Q184525	327.00	328.00	1.00	1.1	0.05	
			Q184526	328.00	328.82	0.82	1.09	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
328.82	342.24	**FDOP Felsic Dyke with Graphitic Overprinting** Dark grey to dark green. Very fine grained felsic unit with moderate chlorite alteration. Unit appears mafic due to chlorite but grain size and hardness suggest a felsic. Very hard and mostly massive with very weak apparent foliation of chlorite. Unit has weak to moderate fracture filling graphite locally mostly due to hairline faulting. 336.55 Fault at 55dca. 341.01 2mm fault gouge at 57 dca. 341.60 2mm fault gouge at 130 dca. 341.71 2mm fault gouge at 35 dca. 342.12 1cm fault gouge at 40 dca. Lower contact at 96 dca.								
			Q184527	328.82	330.00	1.18	3.66	0.8	2.7
			Q184528	330.00	331.00	1.00	3.95	0.45	2.85
			Q184529	331.00	332.00	1.00	3.75	0.41	2.84
			Q184531	332.00	333.00	1.00	2.62	0.15	
			Q184530	332.00	333.00	1.00	2.53	0.16	2.79
			Q184532	333.00	334.00	1.00	2.26	0.28	
			Q184533	334.00	335.00	1.00	2.11	0.54	
			Q184534	335.00	336.00	1.00	3.9	0.34	
			Q184536	336.00	337.00	1.00	3.43	0.81	
			Q184537	337.00	338.00	1.00	2.28	0.76	
			Q184538	338.00	339.00	1.00	1.5	0.57	
			Q184539	339.00	340.00	1.00	2.87	0.63	
			Q184540	340.00	341.00	1.00	9.43	0.76	
			Q184541	341.00	342.24	1.24	2.67	0.62	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
342.24	357.51	**GRDROP Granodiorite with Graphitic Overprinting** Light grey with green and white tinge. Unit is medium to coarse grained quartz diorite to quartz granodiorite. Massive and very hard. Unit has weak local graphite fracture filling. Lower contact sharp at 53 dca.	Q184542	342.24	343.00	0.76	1.02	0.63	
			Q184543	343.00	344.00	1.00	0.42	0.86	
			Q184545	344.00	345.00	1.00	0.41	0.65	
			Q184546	345.00	346.00	1.00	3.58	0.6	
			Q184547	346.00	347.00	1.00	1.41	0.62	
			Q184548	347.00	348.00	1.00	0.75	0.41	
			Q184549	348.00	349.00	1.00	0.35	0.49	
			Q184551	349.00	350.00	1.00	0.53	0.7	
			Q184550	349.00	350.00	1.00	0.5	0.68	
			Q184552	350.00	351.00	1.00	0.25	0.39	
			Q184553	351.00	352.00	1.00	0.27	0.48	
			Q184554	352.00	353.00	1.00	0.36	0.53	
			Q184556	353.00	354.00	1.00	1.27	1.41	
			Q184557	354.00	355.00	1.00	0.7	0.93	
			Q184558	355.00	356.00	1.00	0.23	1.14	
			Q184559	356.00	357.00	1.00	0.47	0.85	
			Q184560	357.00	357.51	0.51	0.16	0.08	
357.51	361.74	**SYENSL Syenite Sill (unmineralized)** Dark green. Massive and very hard. Unit is a mix of fine grained intermediate and coarse grained gabbroic textured dykes in a dyke swarm. 358.00 to 358.47 Granodiorite dyke at Upper Contact 29dca, Lower Contact 59 dca. Lower contact sharp at 53 dca.	Q184561	357.51	358.47	0.96	0.04	0.11	
			Q184562	358.47	359.00	0.53	0.01	0.06	
			Q184563	359.00	360.00	1.00	0.01	0.05	
			Q184565	360.00	361.00	1.00	0.01	0.1	
			Q184566	361.00	361.74	0.74	0.04	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
361.74	388.66	**GRDR Granodiorite** Light grey with green and white tinge. Unit is medium to coarse grained quartz diorite to quartz granodiorite. Massive and very hard. Unit also has 5-10% 1-3mm rounded white feldspar phenocrysts. 367.98 to 368.56 Gabbro dyke at 53 dca. Lower contact irregular at 5 dca.	Q184567	361.74	363.00	1.26	0.07	0.26	
			Q184568	363.00	364.00	1.00	0.05	0.22	
			Q184569	364.00	365.00	1.00	0.08	0.57	
			Q184570	365.00	366.00	1.00	0.07	0.36	
			Q184571	365.00	366.00	1.00	0.07	0.43	
			Q184572	366.00	367.00	1.00	0.26	0.27	
			Q184573	367.00	367.98	0.98	0.33	0.24	
			Q184574	367.98	368.56	0.58	0.06	0.13	
			Q184576	368.56	369.00	0.44	0.12	0.13	
			Q184577	369.00	370.50	1.50	0.2	0.13	
			Q184578	370.50	372.00	1.50	0.09	0.29	
			Q184579	372.00	373.50	1.50	0.08	0.36	
			Q184580	373.50	375.00	1.50	0.19	0.1	
			Q184581	375.00	376.00	1.00	0.1	0.19	
			Q184582	376.00	377.00	1.00	0.07	0.3	
			Q184583	377.00	378.00	1.00	0.17	0.36	
			Q184585	378.00	379.00	1.00	0.09	0.3	
			Q184586	379.00	380.00	1.00	0.02	0.2	
			Q184587	380.00	381.00	1.00	0.01	0.22	
			Q184588	381.00	382.00	1.00	0.05	0.2	
			Q184589	382.00	383.00	1.00	0.03	0.09	
			Q184590	383.00	384.00	1.00	0.01	0.12	
			Q184591	383.00	384.00	1.00	0.01	0.12	
			Q184592	384.00	384.50	0.50	0.04	0.11	
			Q184593	384.50	385.00	0.50	0.06	0.18	
			Q184594	385.00	386.00	1.00	0.01	0.17	
			Q184596	386.00	387.00	1.00	0.06	0.28	
			Q184597	387.00	388.00	1.00	0.01	0.26	
			Q184598	388.00	388.66	0.66	0.04	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
388.66	390.00	**MD Mafic Dyke** Dark green Massive and hard. Fine grained. EOH 390.0m	Q184599	388.66	389.00	0.34	0.12	0.21	
			Q184600	389.00	390.00	1.00	0.06	0.15	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System	Grid/Property	Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	509.63	23/08/2013

District	UTM North	UTM East	Local Grid E	Local Grid N	Collar Survey Method	Date Completed
Porcupine	5545495.2	682805.3			Hand-held GPS	28/08/2013

Project	UTM Elevation	Azimuth Astro. (°)	Azimuth Grid (°)	Dip (°)	Drill Contractor	Date Logged
Albany Graphite Project	125.80	43.50		-50.80	Chibougamau Diamond Drilling	02/09/2013

Area	Claim No.	NTS Sheet	Supervised By	Logged By	Verified
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	Assessment Rpt. No.	Core Storage	Plug Depth	Makes Water	Capped	Environmental Inspection
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	457.63	Casing Pulled	Casing (1)	62.00	Steel	Plugged	Pulsed	Geophysics Contractor		Date Pulsed
(2)			☐	(2)			☐	☐			

Purpose	Results	Comments
Test the extention of the East Pipe to northwest at depth.	The hole hit alternating Breccia and overprinted Syenite between 326.20m to 368.69m. There was a secondary section of Breccia and overprinted Syenite between 385.24m to 394.72m. The assays from 248.00m to 457.00m averaged 2.21% Cg over 209.00m; within this intersection a higher grade graphite zone from 314.70m to 421.00m averaged 3.92% Cg over 106.30m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
72.00			49.1	40.1	-49.8	-49.8	☑	Reflex EZ	57805	
75.00			49.4	40.4	-49.8	-49.8	☑	Reflex EZ	57555	
78.00			49.3	40.3	-50	-50	☑	Reflex EZ	57470	
81.00			49.8	40.8	-49.8	-49.8	☑	Reflex EZ	57447	
84.00			49.6	40.6	-50	-50	☑	Reflex EZ	57446	
87.00			50.1	41.1	-49.8	-49.8	☑	Reflex EZ	57369	
90.00			50	41	-50	-50	☑	Reflex EZ	57441	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
93.00			50	41	-49.8	-49.8	☑	Reflex EZ	57380	
96.00			50.3	41.3	-49.9	-49.9	☑	Reflex EZ	57264	
99.00			50.1	41.1	-49.8	-49.8	☑	Reflex EZ	57356	
102.00			50.7	41.7	-49.8	-49.8	☑	Reflex EZ	57476	
105.00			50.6	41.6	-49.9	-49.9	☑	Reflex EZ	57376	
108.00			50.3	41.3	-49.8	-49.8	☑	Reflex EZ	57300	
111.00			50.2	41.2	-49.8	-49.8	☑	Reflex EZ	57269	
114.00			50.4	41.4	-49.9	-49.9	☑	Reflex EZ	57368	
117.00			50.2	41.2	-49.8	-49.8	☑	Reflex EZ	57330	
120.00			50.4	41.4	-49.7	-49.7	☑	Reflex EZ	57380	
126.00			50.5	41.5	-49.8	-49.8	☑	Reflex EZ	57395	
129.00			50.1	41.1	-49.9	-49.9	☑	Reflex EZ	57234	
132.00			50.5	41.5	-50	-50	☑	Reflex EZ	57407	
135.00			50.1	41.1	-49.9	-49.9	☑	Reflex EZ	57392	
138.00			50.3	41.3	-49.8	-49.8	☑	Reflex EZ	57412	
141.00			50.7	41.7	-49.9	-49.9	☑	Reflex EZ	57542	
144.00			50.6	41.6	-49.9	-49.9	☑	Reflex EZ	57418	
147.00			50.6	41.6	-49.7	-49.7	☑	Reflex EZ	57336	
150.00			50.3	41.3	-49.8	-49.8	☑	Reflex EZ	57387	
156.00			50.7	41.7	-49.7	-49.7	☑	Reflex EZ	57339	
159.00			50.6	41.6	-49.8	-49.8	☑	Reflex EZ	57300	
162.00			50.6	41.6	-49.8	-49.8	☑	Reflex EZ	57359	
165.00			50.8	41.8	-49.7	-49.7	☑	Reflex EZ	57357	
168.00			50.7	41.7	-49.7	-49.7	☑	Reflex EZ	57367	
171.00			50.8	41.8	-49.7	-49.7	☑	Reflex EZ	57370	
174.00			50.8	41.8	-49.7	-49.7	☑	Reflex EZ	57376	
177.00			50.8	41.8	-49.7	-49.7	☑	Reflex EZ	57422	
180.00			50.9	41.9	-49.7	-49.7	☑	Reflex EZ	57320	
183.00			50.4	41.4	-49.7	-49.7	☑	Reflex EZ	57255	
186.00			50.6	41.6	-49.7	-49.7	☑	Reflex EZ	57307	
189.00			50.2	41.2	-49.8	-49.8	☑	Reflex EZ	57298	
192.00			51.1	42.1	-49.8	-49.8	☑	Reflex EZ	57375	
195.00			50.9	41.9	-49.6	-49.6	☑	Reflex EZ	57354	
198.00			51.2	42.2	-49.6	-49.6	☑	Reflex EZ	57253	
201.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57287	
204.00			51	42	-49.7	-49.7	☑	Reflex EZ	57352	
207.00			51	42	-49.7	-49.7	☑	Reflex EZ	57336	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			51.3	42.3	-49.9	-49.9	☑	Reflex EZ	57356	
213.00			50.9	41.9	-49.8	-49.8	☑	Reflex EZ	57315	
216.00			50.9	41.9	-49.8	-49.8	☑	Reflex EZ	57379	
219.00			51.2	42.2	-49.7	-49.7	☑	Reflex EZ	57365	
222.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57261	
225.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57387	
228.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57321	
231.00			51.6	42.6	-49.6	-49.6	☑	Reflex EZ	57351	
234.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57289	
237.00			51.1	42.1	-49.6	-49.6	☑	Reflex EZ	57403	
240.00			51.4	42.4	-49.6	-49.6	☑	Reflex EZ	57431	
243.00			51.4	42.4	-49.8	-49.8	☑	Reflex EZ	57374	
246.00			51.3	42.3	-49.7	-49.7	☑	Reflex EZ	57359	
249.00			51.9	42.9	-49.7	-49.7	☑	Reflex EZ	57277	
252.00			51.7	42.7	-49.7	-49.7	☑	Reflex EZ	57362	
255.00			51.9	42.9	-49.5	-49.5	☑	Reflex EZ	57307	
258.00			51.4	42.4	-49.4	-49.4	☑	Reflex EZ	57555	
261.00			52	43	-49.6	-49.6	☑	Reflex EZ	57393	
264.00			51.7	42.7	-49.7	-49.7	☑	Reflex EZ	57376	
267.00			51.4	42.4	-49.4	-49.4	☑	Reflex EZ	57305	
270.00			51.2	42.2	-49.3	-49.3	☑	Reflex EZ	57340	
273.00			51.7	42.7	-49.4	-49.4	☑	Reflex EZ	57352	
276.00			51.7	42.7	-49.3	-49.3	☑	Reflex EZ	57340	
279.00			51.7	42.7	-49.4	-49.4	☑	Reflex EZ	57369	
282.00			51.7	42.7	-49.5	-49.5	☑	Reflex EZ	57385	
285.00			51.6	42.6	-49.4	-49.4	☑	Reflex EZ	57407	
288.00			51.4	42.4	-49.5	-49.5	☑	Reflex EZ	57296	
291.00			51.7	42.7	-49.4	-49.4	☑	Reflex EZ	57416	
294.00			51.6	42.6	-49.2	-49.2	☑	Reflex EZ	57421	
297.00			52.3	43.3	-49.2	-49.2	☑	Reflex EZ	57187	
300.00			51.6	42.6	-49.2	-49.2	☑	Reflex EZ	57382	
303.00			52.2	43.2	-49.1	-49.1	☑	Reflex EZ	57452	
306.00			51.8	42.8	-49.3	-49.3	☑	Reflex EZ	57391	
309.00			51.9	42.9	-49.2	-49.2	☑	Reflex EZ	57440	
312.00			51.7	42.7	-49.3	-49.3	☑	Reflex EZ	57368	
315.00			51.9	42.9	-49.1	-49.1	☑	Reflex EZ	57395	
318.00			51.5	42.5	-49.1	-49.1	☑	Reflex EZ	57319	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
321.00			51.7	42.7	-49.1	-49.1	☑	Reflex EZ	57393	
324.00			51.4	42.4	-49.1	-49.1	☑	Reflex EZ	57405	
327.00			51.8	42.8	-49.2	-49.2	☑	Reflex EZ	57354	
330.00			51.9	42.9	-49.2	-49.2	☑	Reflex EZ	57347	
333.00			52	43	-49.2	-49.2	☑	Reflex EZ	57437	
336.00			51.9	42.9	-49.2	-49.2	☑	Reflex EZ	57411	
339.00			52	43	-49	-49	☑	Reflex EZ	57360	
342.00			52	43	-49.1	-49.1	☑	Reflex EZ	57460	
345.00			52.1	43.1	-49.1	-49.1	☑	Reflex EZ	57404	
348.00			51.9	42.9	-49.3	-49.3	☑	Reflex EZ	57403	
351.00			51.9	42.9	-49.1	-49.1	☑	Reflex EZ	57409	
354.00			51.9	42.9	-49	-49	☑	Reflex EZ	57426	
357.00			51.9	42.9	-49.2	-49.2	☑	Reflex EZ	57477	
360.00			52.1	43.1	-49.1	-49.1	☑	Reflex EZ	57423	
363.00			52.3	43.3	-49.2	-49.2	☑	Reflex EZ	57403	
366.00			52.3	43.3	-49.2	-49.2	☑	Reflex EZ	57392	
369.00			52.3	43.3	-49.2	-49.2	☑	Reflex EZ	57417	
372.00			52.3	43.3	-49.2	-49.2	☑	Reflex EZ	57418	
375.00			52.5	43.5	-49.2	-49.2	☑	Reflex EZ	57469	
381.00			52.3	43.3	-49.1	-49.1	☑	Reflex EZ	57461	
384.00			52.3	43.3	-49.1	-49.1	☑	Reflex EZ	57301	
387.00			52.6	43.6	-49.2	-49.2	☑	Reflex EZ	57453	
390.00			52.4	43.4	-49.1	-49.1	☑	Reflex EZ	57418	
393.00			52.5	43.5	-49.1	-49.1	☑	Reflex EZ	57419	
396.00			52.3	43.3	-49.4	-49.4	☑	Reflex EZ	57436	
399.00			52.1	43.1	-49.4	-49.4	☑	Reflex EZ	57258	
402.00			53.3	44.3	-49.4	-49.4	☑	Reflex EZ	57465	
405.00			53.2	44.2	-49.5	-49.5	☑	Reflex EZ	57889	
408.00			53.1	44.1	-49.5	-49.5	☑	Reflex EZ	57342	
411.00			52.8	43.8	-49.2	-49.2	☑	Reflex EZ	57481	
414.00			53	44	-49.3	-49.3	☑	Reflex EZ	57414	
417.00			52.6	43.6	-49.5	-49.5	☑	Reflex EZ	57493	
420.00			52.8	43.8	-49.5	-49.5	☑	Reflex EZ	57455	
423.00			52.9	43.9	-49.1	-49.1	☑	Reflex EZ	57469	
426.00			53.2	44.2	-49.1	-49.1	☑	Reflex EZ	57426	
429.00			53	44	-48.9	-48.9	☑	Reflex EZ	57495	
432.00			53.1	44.1	-48.9	-48.9	☑	Reflex EZ	57525	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
435.00			52.8	43.8	-48.9	-48.9	☑	Reflex EZ	57672	
438.00			53.6	44.6	-48.9	-48.9	☑	Reflex EZ	57483	
441.00			52.4	43.4	-49.1	-49.1	☑	Reflex EZ	57410	
444.00			53.6	44.6	-49	-49	☑	Reflex EZ	56928	
447.00			53.3	44.3	-49	-49	☑	Reflex EZ	57386	
450.00			54.2	45.2	-49	-49	☑	Reflex EZ	57310	
453.00			53.7	44.7	-49	-49	☑	Reflex EZ	57418	
456.00			53.4	44.4	-49	-49	☑	Reflex EZ	57152	
459.00			53.5	44.5	-49	-49	☑	Reflex EZ	57582	
462.00			53.7	44.7	-48.8	-48.8	☑	Reflex EZ	57135	
465.00			53.9	44.9	-49.2	-49.2	☑	Reflex EZ	57400	
468.00			54.1	45.1	-48.9	-48.9	☑	Reflex EZ	57397	
471.00			54.1	45.1	-48.9	-48.9	☑	Reflex EZ	57415	
474.00			54.1	45.1	-48.9	-48.9	☑	Reflex EZ	57450	
477.00			54.1	45.1	-48.9	-48.9	☑	Reflex EZ	57302	
480.00			53.7	44.7	-48.8	-48.8	☑	Reflex EZ	57543	
483.00			54.2	45.2	-48.7	-48.7	☑	Reflex EZ	57517	
486.00			54.1	45.1	-48.7	-48.7	☑	Reflex EZ	57406	
489.00			54	45	-48.7	-48.7	☑	Reflex EZ	57056	
492.00			54.1	45.1	-48.8	-48.8	☑	Reflex EZ	57591	
495.00			53.5	44.5	-48.8	-48.8	☑	Reflex EZ	57533	
498.00			53.5	44.5	-48.8	-48.8	☑	Reflex EZ	57546	
501.00			53.6	44.6	-48.8	-48.8	☑	Reflex EZ	57439	
504.00			54.1	45.1	-48.8	-48.8	☑	Reflex EZ	57431	
507.00			54.9	45.9	-48.6	-48.6	☑	Reflex EZ	57138	
510.00			54.3	45.3	-48.4	-48.4	☑	Reflex EZ	57606	
513.00			54.3	45.3	-48.5	-48.5	☑	Reflex EZ	57391	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	60.00	**OB Overburden** Unknown overburden							
60.00	61.20	**SED Sediment** Bleached light brown to pale tan limestone pieces. Broken and blocky from 5-15 cm in size. Lower contact unconformity lost.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
61.20	114.45	**SYEN Syenite** Orange to red with light grey quartz plagioclase tinge. Unit is well weathered with numerous fractures and faults that stain the core red. 65.05 to 68.30 a fracture 3mm in width filled with calcite, chlorite and maybe a wee bit of graphite that runs along the core at 0 dca. 77.49 to 78.03 Weathered fault zone at 70 dca. 87.46 to 87.60 Wispy chlorite biotite alteration at 65 dca. 98.46 to 99.34 Chlorite biotite dyke at 113 dca. 99.71 to 99.86 Wispy chlorite biotite alteration at 77 dca. 100.34 to 100.65 Chlorite biotite alteration at 71 dca. 102.91 to 102.98 Chlorite biotite alteration at 55 dca. 104.73 to 104.79 Chlorite biotite alteration at 70 dca. Lower contact sharp at 67 dca.							
			Q184601	61.20	62.00	0.80	0.9	0.97	
			Q184602	62.00	63.00	1.00	0.28	0.23	
			Q184603	63.00	64.00	1.00	0.61	0.04	
			Q184605	64.00	65.00	1.00	1.22	0.01	2.57
			Q184606	65.00	66.00	1.00	5.75	0.02	2.5
			Q184607	66.00	67.00	1.00	4.92	0.03	2.44
			Q184608	67.00	68.00	1.00	1.87	0.04	2.53
			Q184609	68.00	69.00	1.00	0.25	0.03	2.58
			Q184610	69.00	70.00	1.00	0.11	0.01	
			Q184611	69.00	70.00	1.00	0.12	0.01	
			Q184612	70.00	71.00	1.00	0.11	0.01	
			Q184613	71.00	72.00	1.00	0.5	0.01	
			Q184614	72.00	73.00	1.00	0.56	0.005	
			Q184616	73.00	74.00	1.00	0.37	0.01	
			Q184617	74.00	75.00	1.00	0.15	0.03	
			Q184618	75.00	76.00	1.00	0.13	0.02	
			Q184619	76.00	77.00	1.00	0.11	0.02	
			Q184620	77.00	78.00	1.00	0.09	0.03	
			Q184621	78.00	79.00	1.00	0.09	0.03	
			Q184622	79.00	80.00	1.00	0.08	0.03	
			Q184623	80.00	81.00	1.00	0.07	0.03	
			Q184625	81.00	82.00	1.00	0.06	0.05	
			Q184626	82.00	83.00	1.00	0.05	0.11	
			Q184627	83.00	84.00	1.00	0.02	0.09	
			Q184628	84.00	85.00	1.00	0.03	0.06	
			Q184629	85.00	86.00	1.00	0.06	0.03	
			Q184631	86.00	87.00	1.00	0.07	0.11	
			Q184630	86.00	87.00	1.00	0.07	0.14	
			Q184632	87.00	88.00	1.00	0.15	0.13	
			Q184633	88.00	89.00	1.00	0.06	0.07	
			Q184634	89.00	90.00	1.00	0.05	0.05	
			Q184636	90.00	91.00	1.00	0.07	0.1	
			Q184637	91.00	92.00	1.00	0.11	0.08	
			Q184638	92.00	93.00	1.00	0.07	0.06	
			Q184639	93.00	94.00	1.00	0.23	0.07	
			Q184640	94.00	95.00	1.00	0.09	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q184641	95.00	96.00	1.00	0.05	0.15	
			Q184642	96.00	97.00	1.00	0.04	0.17	
			Q184643	97.00	98.46	1.46	0.13	0.12	
			Q184645	98.46	99.34	0.88	0.11	0.01	
			Q184646	99.34	100.00	0.66	0.09	0.04	
			Q184647	100.00	101.00	1.00	0.07	0.05	
			Q184648	101.00	102.00	1.00	0.01	0.14	
			Q184649	102.00	103.00	1.00	0.02	0.08	
			Q184650	103.00	104.00	1.00	0.02	0.1	
			Q184651	103.00	104.00	1.00	0.01	0.11	
			Q184652	104.00	105.00	1.00	0.01	0.08	
			Q184653	105.00	106.00	1.00	0.01	0.06	
			Q184654	106.00	107.00	1.00	0.01	0.1	
			Q184656	107.00	108.00	1.00	0.01	0.1	
			Q184657	108.00	109.00	1.00	0.01	0.04	
			Q184658	109.00	110.00	1.00	0.01	0.02	
			Q184659	110.00	111.00	1.00	0.01	0.01	
			Q184660	111.00	112.00	1.00	0.01	0.05	
			Q184661	112.00	113.00	1.00	0.01	0.06	
			Q184662	113.00	114.00	1.00	0.05	0.11	
			Q184663	114.00	114.45	0.45	0.05	0.18	
114.45	117.14	**MD Mafic Dyke** Green to dark green with red tinge of orthoclase. Unit is likely a non quartz diorite with fine grained amphibole and orthoclase in a 50/50 split. Massive and very hard. Lower contact at 58 dca.	Q184665	114.45	115.00	0.55	0.01	0.12	
			Q184666	115.00	116.00	1.00	0.01	0.02	
			Q184667	116.00	117.14	1.14	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
117.14 -	174.24	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. Typical syenite gneiss in the 4F area. 127.69 to 127.77 Chlorite biotite schistosity at 91 dca. 130.90 to 131.27 Mafic dyke. Fine grained and massive Light green. At 69 dca. 131.83 to 132.16 Mafic dyke as above at 68 dca. 133.59 to 134.03 Mafic dyke as above at 71 dca. 172.73 to 172.92 Mafic dyke at 41 dca. Weak graphite fracture filling. Lower contact sharp at 73 dca.	Q184668	117.14	118.00	0.86	0.03	0.06	
			Q184669	118.00	119.00	1.00	0.05	0.05	
			Q184670	119.00	120.00	1.00	0.01	0.03	
			Q184671	119.00	120.00	1.00	0.01	0.03	
			Q184672	120.00	121.00	1.00	0.12	0.05	
			Q184673	121.00	122.00	1.00	0.01	0.07	
			Q184674	122.00	123.00	1.00	0.01	0.03	
			Q184676	123.00	124.00	1.00	0.01	0.02	
			Q184677	124.00	125.00	1.00	0.02	0.04	
			Q184678	125.00	126.00	1.00	0.03	0.14	
			Q184679	126.00	127.00	1.00	0.03	0.11	
			Q184680	127.00	128.00	1.00	0.05	0.09	
			Q184681	128.00	129.00	1.00	0.03	0.12	
			Q184682	129.00	130.00	1.00	0.09	0.12	
			Q184683	130.00	131.00	1.00	0.06	0.13	
			Q184685	131.00	132.00	1.00	0.13	0.16	
			Q184686	132.00	133.00	1.00	0.1	0.15	
			Q184687	133.00	134.03	1.03	0.1	0.19	
			Q184688	134.03	135.00	0.97	0.05	0.2	
			Q184689	135.00	136.00	1.00	0.01	0.05	
			Q184690	136.00	137.00	1.00	0.01	0.03	
			Q184691	136.00	137.00	1.00	0.01	0.02	
			Q184692	137.00	138.00	1.00	0.01	0.02	
			Q184693	138.00	139.00	1.00	0.01	0.03	
			Q184694	139.00	140.00	1.00	0.01	0.04	
			Q184696	140.00	141.00	1.00	0.01	0.02	
			Q184697	141.00	142.00	1.00	0.01	0.02	
			Q184698	142.00	143.00	1.00	0.01	0.02	
			Q184699	143.00	144.00	1.00	0.01	0.03	
			Q184700	144.00	145.00	1.00	0.01	0.09	
			Q184701	145.00	146.00	1.00	0.01	0.07	
			Q184702	146.00	147.00	1.00	0.01	0.03	
			Q184703	147.00	148.00	1.00	0.03	0.04	
			Q184705	148.00	149.00	1.00	0.01	0.01	
			Q184706	149.00	150.00	1.00	0.01	0.04	
			Q184707	150.00	151.00	1.00	0.02	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q184708	151.00	152.00	1.00	0.06	0.09	
			Q184709	152.00	153.00	1.00	0.04	0.05	
			Q184710	153.00	154.00	1.00	0.08	0.02	
			Q184711	153.00	154.00	1.00	0.01	0.02	
			Q184712	154.00	155.00	1.00	0.01	0.02	
			Q184713	155.00	156.00	1.00	0.02	0.03	
			Q184714	156.00	157.00	1.00	0.05	0.05	
			Q184716	157.00	158.00	1.00	0.05	0.05	
			Q184717	158.00	159.00	1.00	0.1	0.05	
			Q184718	159.00	160.00	1.00	0.01	0.09	
			Q184719	160.00	161.00	1.00	0.04	0.06	
			Q184720	161.00	162.00	1.00	0.06	0.09	
			Q184721	162.00	163.00	1.00	0.04	0.06	
			Q184722	163.00	164.00	1.00	0.03	0.05	
			Q184723	164.00	165.00	1.00	0.11	0.21	
			Q184725	165.00	166.00	1.00	0.06	0.1	
			Q184726	166.00	167.00	1.00	0.01	0.04	
			Q184727	167.00	168.00	1.00	0.01	0.06	
			Q184728	168.00	169.00	1.00	0.01	0.05	
			Q184729	169.00	170.00	1.00	0.07	0.13	
			Q184730	170.00	171.00	1.00	0.17	0.13	
			Q184731	170.00	171.00	1.00	0.2	0.12	
			Q184732	171.00	172.00	1.00	0.14	0.12	
			Q184733	172.00	173.00	1.00	0.72	0.16	
			Q184734	173.00	174.24	1.24	0.1	0.11	
174.24	- 175.15	**MD Mafic Dyke** Grey to green. Massive and very hard. Likely a diorite dyke. Lower contact at 91 dca.	Q184736	174.24	175.15	0.91	0.28	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
175.15	199.42	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. Typical syenite gneiss in the 4F area. 195.54 to 196.14 Mafic Dyke weak graphite fracture filling at Upper Contact 71 dca, Lower Contact 107 dca. 199.05 to 199.13 Chlorite biotite alteration at 71 dca. Lower contact sharp at 99 dca.	Q184737	175.15	176.00	0.85	0.12	0.23	
			Q184738	176.00	177.00	1.00	0.07	0.12	
			Q184739	177.00	178.00	1.00	0.03	0.06	
			Q184740	178.00	179.00	1.00	0.05	0.06	
			Q184741	179.00	180.00	1.00	0.03	0.16	
			Q184742	180.00	181.00	1.00	0.03	0.08	
			Q184743	181.00	182.00	1.00	0.02	0.07	
			Q184745	182.00	183.00	1.00	0.06	0.13	
			Q184746	183.00	184.00	1.00	0.02	0.02	
			Q184747	184.00	185.00	1.00	0.02	0.01	
			Q184748	185.00	186.00	1.00	0.01	0.01	
			Q184749	186.00	187.00	1.00	0.1	0.14	
			Q184751	187.00	188.00	1.00	0.05	0.07	
			Q184750	187.00	188.00	1.00	0.06	0.06	
			Q184752	188.00	189.00	1.00	0.05	0.06	
			Q184753	189.00	190.00	1.00	0.05	0.04	
			Q184754	190.00	191.00	1.00	0.06	0.07	
			Q184756	191.00	192.00	1.00	0.09	0.12	
			Q184757	192.00	193.00	1.00	0.06	0.11	
			Q184758	193.00	194.00	1.00	0.08	0.16	
			Q184759	194.00	195.00	1.00	0.11	0.2	
			Q184760	195.00	195.54	0.54	0.25	0.24	
			Q184761	195.54	196.14	0.60	0.4	0.19	
			Q184762	196.14	197.00	0.86	0.24	0.24	
			Q184763	197.00	198.00	1.00	0.45	0.29	
			Q184765	198.00	199.05	1.05	0.12	0.17	
			Q184766	199.05	199.42	0.37	0.24	0.18	
199.42	200.65	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green. Mostly massive with some fracture crackling. Fine grained and hard. Lower contact irregular at 85 dca.	Q184767	199.42	200.65	1.23	0.5	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
200.65	212.35	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Typical syenite gneiss in the 4F area. 202.97 to 203.00 Fault gouge at 43 dca. 212.05 to 212.35 Mafic dyke chlorite biotite schist at 69 dca.	Q184768	200.65	201.00	0.35	0.64	0.3	
			Q184769	201.00	202.00	1.00	0.38	0.28	
			Q184771	202.00	203.00	1.00	1.38	0.27	
			Q184770	202.00	203.00	1.00	1.39	0.28	
			Q184772	203.00	204.00	1.00	0.73	0.18	
			Q184773	204.00	205.00	1.00	0.05	0.16	
			Q184774	205.00	206.00	1.00	0.11	0.2	
			Q184776	206.00	207.00	1.00	0.39	0.25	2.63
			Q184777	207.00	208.00	1.00	0.12	0.2	2.6
			Q184778	208.00	209.00	1.00	0.05	0.14	2.62
			Q184779	209.00	210.00	1.00	0.06	0.14	2.62
			Q184780	210.00	211.00	1.00	0.06	0.17	2.63
			Q184781	211.00	212.05	1.05	0.19	0.15	
			Q184782	212.05	212.35	0.30	0.25	0.03	
212.35	214.24	**ID Intermediate Dyke** Light green. Massive and very hard. Fine grained. Lower contact sharp at 37 dca.	Q184783	212.35	213.00	0.65	0.07	0.17	
			Q184785	213.00	214.24	1.24	0.08	0.11	
214.24	216.01	**MDOP Mafic Dyke with Graphitic Overprinting** Dark green, Soft to moderately hard. Chlorite biotite dyke that is well fractured at 37 dca. Hematite alteration 5% calcite fracture filling. Weak graphite fracture filling. Lower contact at 90 dca.	Q184786	214.24	215.00	0.76	1.51	0.77	
			Q184787	215.00	216.01	1.01	0.35	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
216.01	239.05	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. Typical syenite gneiss in the 4F area. Unit is broken and blocky for the most part. 218.00 to 218.25 Broken and blocky at 145 dca. 234.00 to 234.47 Broken and blocky at 43 dca. 225.01 to 225.19 Graphite healing of fault at 49 dca. 232.68 to 232.78 Fractured at 60 dca graphite fracture filling. 232.95 to 233.17 chlorite biotite alteration at 61 to 70 dca. Lower contact sharp at 69 dca.	Q184788	216.01	217.00	0.99	0.12	0.07	
			Q184789	217.00	218.00	1.00	0.14	0.12	
			Q184790	218.00	219.00	1.00	0.29	0.21	
			Q184791	218.00	219.00	1.00	0.23	0.2	
			Q184792	219.00	220.00	1.00	0.08	0.16	
			Q184793	220.00	221.00	1.00	0.07	0.12	
			Q184794	221.00	222.00	1.00	0.06	0.08	
			Q184796	222.00	223.00	1.00	0.06	0.1	
			Q184797	223.00	224.00	1.00	0.07	0.17	
			Q184798	224.00	225.01	1.01	0.31	0.22	
			Q184799	225.01	226.00	0.99	1.76	0.24	
			Q184800	226.00	227.00	1.00	0.1	0.13	
			Q184801	227.00	228.00	1.00	0.03	0.11	
			Q184802	228.00	229.00	1.00	0.19	0.16	
			Q184803	229.00	230.00	1.00	0.7	0.22	
			Q184805	230.00	231.00	1.00	0.02	0.09	
			Q184806	231.00	232.00	1.00	0.06	0.06	
			Q184807	232.00	232.68	0.68	0.06	0.12	
			Q184808	232.68	232.95	0.27	1.69	0.17	
			Q184809	232.95	234.00	1.05	0.3	0.13	
			Q184810	234.00	235.00	1.00	0.06	0.08	
			Q184811	234.00	235.00	1.00	0.08	0.07	
			Q184812	235.00	236.00	1.00	0.1	0.17	
			Q184813	236.00	237.00	1.00	0.2	0.09	
			Q184814	237.00	238.00	1.00	0.08	0.16	
			Q184816	238.00	239.05	1.05	0.22	0.17	
239.05	239.95	**MD Mafic Dyke** Light green and massive. Hard. Likely a quartz diorite due to some stretched quartz. Lower contact sharp at 65 dca.	Q184817	239.05	239.95	0.90	0.08	0.14	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
239.95	326.20	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Typical syenite gneiss in the 4F area. Local graphite fracture filling. 242.48 to 242.52 Chlorite biotite alteration at 68 dca. 252.10 to 252.35 Chlorite biotite dyke at 63 dca. 252.63 to 252.72 Chlorite alteration at 105 dca. 252.76 to 252.82 Chlorite alteration at 105 to 60 dca. 254.56 to 254.62 Chlorite alteration at 99 dca. 256.66 to 256.97 Mafic dyke at 71 dca. 257.11 to 257.15 Fault gouge at 97 dca 263.23 to 263.86 Chlorite alteration at 70 dca. 278.66 to 278.69 Fault gouge at 28 dca. Local graphite fracture filling. 283.25 to 283.48 Chlorite mafic dyke cross cutting from 169 to 38 dca. 2789.15 to 289.17 2 cm graphite breccia seam at 139 dca. 289.84 to 290.60 Light green massive hard diorite dyke, Upper Contact 34 dca, Lower Contact 45 dca. 314.70 to 315.46 Chlorite biotite dyke at 55 dca. 315.76 to 315.94 Graphite breccia at 67 dca. 316 to 326 Unit becomes stronger mineralized. Lower contact at 70 dca.	Q184818	239.95	241.00	1.05	0.05	0.19	
			Q184819	241.00	242.00	1.00	0.05	0.2	
			Q184820	242.00	243.00	1.00	0.1	0.14	
			Q184821	243.00	244.00	1.00	0.05	0.1	
			Q184822	244.00	245.00	1.00	0.01	0.07	
			Q184823	245.00	246.00	1.00	0.03	0.1	
			Q184825	246.00	247.00	1.00	0.12	0.17	
			Q184826	247.00	248.00	1.00	0.14	0.19	
			Q184827	248.00	249.00	1.00	0.34	0.27	
			Q184828	249.00	250.00	1.00	0.27	0.22	
			Q184829	250.00	251.00	1.00	0.42	0.24	
			Q184830	251.00	252.10	1.10	0.29	0.28	
			Q184831	251.00	252.10	1.10	0.31	0.29	
			Q184832	252.10	253.00	0.90	1.19	0.18	
			Q184833	253.00	254.00	1.00	0.22	0.42	
			Q184834	254.00	255.00	1.00	0.83	0.32	
			Q184836	255.00	256.00	1.00	0.41	0.25	
			Q184837	256.00	257.00	1.00	0.21	0.25	
			Q184838	257.00	258.00	1.00	0.69	0.19	
			Q184839	258.00	259.00	1.00	1.32	0.32	
			Q184840	259.00	260.00	1.00	0.17	0.29	
			Q184841	260.00	261.00	1.00	0.43	0.25	
			Q184842	261.00	262.00	1.00	0.1	0.23	
			Q184843	262.00	263.23	1.23	0.23	0.28	
			Q184845	263.23	263.86	0.63	0.35	0.29	
			Q184846	263.86	265.00	1.14	0.3	0.28	
			Q184847	265.00	266.00	1.00	1.54	0.2	
			Q184848	266.00	267.00	1.00	0.08	0.28	
			Q184849	267.00	268.00	1.00	1.21	0.33	
			Q184850	268.00	269.00	1.00	0.38	0.28	
			Q184851	268.00	269.00	1.00	0.36	0.27	
			Q184852	269.00	270.00	1.00	0.11	0.26	
			Q184853	270.00	271.00	1.00	0.13	0.03	
			Q184854	271.00	272.00	1.00	0.17	0.09	
			Q184856	272.00	273.00	1.00	0.31	0.18	
			Q184857	273.00	274.00	1.00	0.24	0.17	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q184858	274.00	275.00	1.00	1.22	0.1	
		Q184859	275.00	276.00	1.00	0.75	0.32	
		Q184860	276.00	277.00	1.00	0.48	0.64	
		Q184861	277.00	278.00	1.00	0.41	0.15	
		Q184862	278.00	279.00	1.00	2.7	0.34	
		Q184863	279.00	280.00	1.00	2.02	1.66	
		Q184865	280.00	281.00	1.00	0.57	0.73	
		Q184866	281.00	282.00	1.00	1.52	0.14	
		Q184867	282.00	283.00	1.00	0.35	0.36	
		Q184868	283.00	284.00	1.00	0.75	0.71	
		Q184869	284.00	285.00	1.00	0.07	0.27	
		Q184870	285.00	286.00	1.00	0.12	0.28	
		Q184871	285.00	286.00	1.00	0.13	0.29	
		Q184872	286.00	287.00	1.00	0.36	0.17	
		Q184873	287.00	288.00	1.00	0.3	0.29	
		Q184874	288.00	289.00	1.00	0.26	0.25	
		Q184876	289.00	289.84	0.84	0.45	0.3	
		Q184877	289.84	290.60	0.76	0.01	0.35	
		Q184878	290.60	292.00	1.40	0.16	0.33	
		Q184879	292.00	293.00	1.00	0.16	0.29	
		Q184880	293.00	294.00	1.00	0.17	0.25	
		Q184881	294.00	295.00	1.00	0.17	0.23	
		Q184882	295.00	296.00	1.00	0.39	0.23	
		Q184883	296.00	297.00	1.00	0.3	0.25	
		Q184885	297.00	298.00	1.00	0.21	0.18	
		Q184886	298.00	299.00	1.00	0.18	0.29	
		Q184887	299.00	300.00	1.00	0.12	0.27	
		Q184888	300.00	301.00	1.00	0.21	0.2	
		Q184889	301.00	302.00	1.00	0.24	0.25	
		Q184890	302.00	303.00	1.00	0.2	0.29	
		Q184891	302.00	303.00	1.00	0.24	0.3	
		Q184892	303.00	304.00	1.00	0.14	0.28	
		Q184893	304.00	305.00	1.00	0.18	0.37	
		Q184894	305.00	306.00	1.00	0.15	0.27	
		Q184896	306.00	307.00	1.00	0.26	0.33	
		Q184897	307.00	308.00	1.00	0.25	0.31	
		Q184898	308.00	309.00	1.00	0.53	0.22	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q184899	309.00	310.00	1.00	0.57	0.2	
		Q184900	310.00	311.00	1.00	0.43	0.21	
		Q184901	311.00	312.00	1.00	0.2	0.37	
		Q184902	312.00	313.00	1.00	0.31	0.34	
		Q184903	313.00	314.00	1.00	0.21	0.2	
		Q184905	314.00	314.70	0.70	0.55	0.12	
		Q184906	314.70	315.46	0.76	1.21	0.32	
		Q184907	315.46	315.76	0.30	0.64	0.1	
		Q184908	315.76	316.00	0.24	6.23	0.12	
		Q184909	316.00	317.00	1.00	0.7	0.22	
		Q184910	317.00	318.00	1.00	0.38	0.24	
		Q184911	317.00	318.00	1.00	0.43	0.25	
		Q184912	318.00	319.00	1.00	0.45	0.16	
		Q184913	319.00	320.00	1.00	5.89	0.15	
		Q184914	320.00	321.00	1.00	2.45	0.13	
		Q184916	321.00	322.00	1.00	0.58	0.1	
		Q184917	322.00	323.00	1.00	0.36	0.29	
		Q184918	323.00	324.00	1.00	0.62	0.53	
		Q184919	324.00	325.00	1.00	0.56	0.49	
		Q184920	325.00	326.20	1.20	1.12	0.55	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
326.20	345.70	**GRPBX Graphitic Breccia** Grey to dark grey to black. Unit consists of 60% graphitic breccia and 40% strongly mineralized overprinted syenite. Unit is not the typical pipe breccia unit but is still well mineralized ore zone. Lower contact at 61 dca.	Q184921	326.20	327.00	0.80	4.82	0.76	
			Q184922	327.00	328.00	1.00	8.43	0.43	
			Q184923	328.00	329.00	1.00	6.76	0.44	
			Q184925	329.00	330.00	1.00	14.45	0.12	
			Q184926	330.00	331.00	1.00	13.35	0.15	
			Q184927	331.00	332.00	1.00	1.72	0.24	
			Q184928	332.00	333.00	1.00	3.6	0.35	
			Q184929	333.00	334.00	1.00	8.13	0.32	
			Q184931	334.00	335.00	1.00	1.92	0.52	
			Q184930	334.00	335.00	1.00	1.66	0.51	
			Q184932	335.00	336.00	1.00	2.19	0.39	
			Q184933	336.00	337.00	1.00	3.12	0.4	
			Q184934	337.00	338.00	1.00	2.96	0.35	
			Q184936	338.00	339.00	1.00	5.87	0.32	
			Q184937	339.00	340.00	1.00	5.38	0.28	
			Q184938	340.00	341.00	1.00	6.94	0.34	
			Q184939	341.00	342.00	1.00	2.22	0.34	
			Q184940	342.00	343.00	1.00	6.22	0.25	
			Q184941	343.00	344.00	1.00	2.68	0.44	
			Q184942	344.00	345.00	1.00	3.4	0.22	
			Q184943	345.00	345.70	0.70	1.27	0.3	
345.70	349.72	**SYENOP Syenite with Graphitic Overprinting** Grey to dark grey with orange tinge. Massive and very hard. Fracture filling graphite. 348.56 to 348.69 Mafic dyke at 61 dca. Lower contact at 75 dca.	Q184945	345.70	347.00	1.30	0.35	0.18	2.63
			Q184946	347.00	348.00	1.00	0.3	0.12	2.62
			Q184947	348.00	349.00	1.00	0.02	0.03	2.63
			Q184948	349.00	349.72	0.72	0.9	0.21	2.64

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
349.72 -	355.00	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia. Well mineralized. 353.01 to 353.11 Intermediate dyke. Very dark green. Fine grained and hard. At 71 dca. Lower contact gradational at 90.	Q184949	349.72	350.85	1.13	6.39	0.3	2.62
			Q184951	350.85	352.00	1.15	5.71	0.31	
			Q184950	350.85	352.00	1.15	6.2	0.31	
			Q184952	352.00	353.01	1.01	5.37	0.36	
			Q184953	353.01	354.00	0.99	0.55	0.29	
			Q184954	354.00	355.00	1.00	6.29	0.22	
355.00 -	356.61	**SYENOP Syenite with Graphitic Overprinting** Dark grey with light orange tinge. Massive and very hard. Moderately mineralized. Lower contact sharp at 43 dca.	Q184956	355.00	356.00	1.00	0.75	0.1	
			Q184957	356.00	356.61	0.61	0.92	0.3	
356.61 -	357.83	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia. Well mineralized. Lower contact sharp at 37 dca.	Q184958	356.61	357.00	0.39	8.31	0.03	
			Q184959	357.00	357.83	0.83	10.35	0.32	
357.83 -	360.77	**SYENOP Syenite with Graphitic Overprinting** Dark grey with light orange tinge. Massive and very hard. Moderately mineralized. Lower contact sharp at 125 dca.	Q184960	357.83	359.00	1.17	1.3	0.36	
			Q184961	359.00	360.00	1.00	2.89	0.29	
			Q184962	360.00	360.77	0.77	10.85	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
360.77	368.69	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia. Well mineralized. 362.06 to 362.20 Granite dyke at 50 dca. 366.18 to 366.28 Fault gouge rubble at 55 dca. Lower contact irregular at 142 dca.	Q184963	360.77	362.06	1.29	1.14	0.37	
			Q184965	362.06	363.00	0.94	5.49	0.37	
			Q184966	363.00	364.00	1.00	12.35	0.34	
			Q184967	364.00	365.00	1.00	14.25	0.29	
			Q184968	365.00	366.00	1.00	12.75	0.33	
			Q184969	366.00	367.00	1.00	10.3	0.29	
			Q184971	367.00	368.00	1.00	12.05	0.26	
			Q184970	367.00	368.00	1.00	12.65	0.27	
			Q184972	368.00	368.69	0.69	12.55	0.32	
368.69	370.12	**MDOP Mafic Dyke with Graphitic Overprinting** Light green to grey, fine to medium grained, biotite and chlorite alteration with moderate graphite fracture filling. Lower contact at 33 dca.	Q184973	368.69	369.12	0.43	6.32	0.21	
			Q184974	369.12	370.12	1.00	2.18	0.35	
370.12	371.50	**SYENOP Syenite with Graphitic Overprinting** Grey with pinkish section near lower contact. Medium grained and hard. Moderate graphite fracture filling. Lower contact at 115dca.	Q184976	370.12	371.00	0.88	4.64	0.37	
			Q184977	371.00	371.50	0.50	0.37	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
371.50	377.45	**MDOP Mafic Dyke with Graphitic Overprinting** Grey to pale green hard and fine grained some feldspar phenocrysts. 373.16-373.60 Syenite with moderate to strong graphite over print. Upper Contact 133dca/Lower Contact 71dca. 3733.74-373.82, 374.68-374.74, 376.26-376.29 coarse grained phases or dykelets of the same material possibly quartz diorite. Lower contact at 137dca.	Q184978	371.50	372.00	0.50	0.02	0.08	
			Q184979	372.00	373.16	1.16	0.01	0.07	
			Q184980	373.16	373.60	0.44	1.55	0.25	
			Q184981	373.60	374.20	0.60	0.03	0.17	
			Q184982	374.20	375.00	0.80	0.04	0.21	
			Q184983	375.00	376.00	1.00	0.04	0.11	
			Q184985	376.00	377.00	1.00	0.01	0.03	
			Q184986	377.00	377.45	0.45	0.08	0.08	
377.45	378.90	**GRPBX Graphitic Breccia** Grey to black, the first 33cm of the unit is typical breccia, from there to the lower contact there are larger areas of syenite with moderate to strong fracture filling with smaller areas of typical breccia in-between. Lower contact at 40dca.	Q184987	377.45	378.00	0.55	7.87	0.35	
			Q184988	378.00	378.90	0.90	4.93	0.6	
378.90	380.85	**SYENOP Syenite with Graphitic Overprinting** Grey, medium grained with coarser grained feldspar crystals closer to the lower contact. Moderate fracture filling. Trace to 1% disseminated sulphides probably pyrite. 380.27-380.32 chlorite altered mafic dyke at 75dca. Lower contact 145dca.	Q184989	378.90	380.00	1.10	2.09	0.75	
			Q184991	380.00	380.85	0.85	1.8	0.28	
			Q184990	380.00	380.85	0.85	1.75	0.28	
380.85	381.56	**MDOP Mafic Dyke with Graphitic Overprinting** Dark grey to black mafic dyke with lighter green chlorite alteration and moderate to strong graphite. Lower contact at 142.	Q184992	380.85	381.56	0.71	8.4	0.98	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
381.56 -	385.24	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink medium grained and hard mild to moderate graphite in fractures. 381.56-381.85 this area near the contact of the mafic dyke above is quite altered and contains moderate to strong graphite along with chlorite and biotite. Lower contact at 125dca.	Q184993	381.56	381.85	0.29	3.13	0.42	
			Q184994	381.85	383.00	1.15	2.14	0.12	
			Q184996	383.00	384.00	1.00	1.55	0.29	
			Q184997	384.00	385.24	1.24	0.48	0.41	
385.24 -	388.00	**GRPBX Graphitic Breccia** Grey to black. Typical breccia with a strong graphite matrix and fracture filling. 385.65-386.35 a larger fragment with less visible fracture filling, possibly a granodiorite fragment? Lower contact at 130dca.	Q184998	385.24	385.65	0.41	17	1.46	
			Q184999	385.65	386.35	0.70	1.81	0.58	
			Q185000	386.35	387.00	0.65	10.35	0.24	
			Q185001	387.00	388.00	1.00	9.24	0.38	
388.00 -	388.44	**MDOP Mafic Dyke with Graphitic Overprinting** Grey to black mafic dyke rich in chlorite and biotite with graphite in fractures. Lower contact 170dca.	Q185002	388.00	388.40	0.40	0.4	0.11	
			Q185003	388.40	389.00	0.60	1.07	0.29	
388.44 -	390.19	**SYENOP Syenite with Graphitic Overprinting** Grey, medium grained, hard. Mild, graphite fracture filling. Carbonate fracture filling, the fractures with carbonate have a pinkish orange tinge to them. Lower contact at 100dca.	Q185005	389.00	390.19	1.19	0.77	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
390.19	394.72	**GRPBX Graphitic Breccia** Grey to black with a orange area in a larger syenite fragment. 392.30-393.71 a large fragment of syenite or a syenite unit, I left it as a fragment due to the very high graphite overprinting. Lower contact at 42dca.	Q185006	390.19	391.00	0.81	11.9	0.33	
			Q185007	391.00	391.80	0.80	10.95	0.22	
			Q185008	391.80	392.30	0.50	10.4	0.17	
			Q185009	392.30	393.00	0.70	0.36	0.26	
			Q185010	393.00	393.71	0.71	0.18	0.28	
			Q185011	393.00	393.71	0.71	0.21	0.28	
			Q185012	393.71	394.72	1.01	8.95	0.49	
394.72	404.24	**SYENOP Syenite with Graphitic Overprinting** Grey with pinkish tinge, medium grained and hard. Mild graphite fracture filling in some areas there is no conductivity at all. 399.84-399.94 localized breccia.	Q185013	394.72	396.00	1.28	0.38	0.71	
			Q185014	396.00	397.00	1.00	0.23	0.62	
			Q185016	397.00	398.00	1.00	0.32	0.64	
			Q185017	398.00	399.00	1.00	0.31	0.49	
			Q185018	399.00	399.84	0.84	0.23	0.59	
			Q185019	399.84	399.94	0.10	9.95	0.19	
			Q185020	399.94	401.00	1.06	1.5	0.19	
			Q185021	401.00	402.00	1.00	0.7	0.49	
			Q185022	402.00	403.00	1.00	0.3	0.61	
			Q185023	403.00	404.24	1.24	0.22	0.3	
404.24	406.64	**GRPBX Graphitic Breccia** Grey and black with pink sections. This breccia is more of an intense fracture filled area with fragments more in situ and only some fragments rotated at all. 405.1-405.56 Mafic dyke, chlorite and biotite alteration and graphite associated. Upper Contact 90dca/Lower Contact 65dca.	Q185025	404.24	405.10	0.86	3.93	0.54	
			Q185026	405.10	405.56	0.46	2.08	0.3	
			Q185027	405.56	406.64	1.08	5.64	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
406.64 -	411.00	**SYEN Syenite** Grey to pale pink, hard, fine to medium grained. This syenite is quite altered due to it being right above a large fault zone. There is no graphite associated with this syenite. 410-414 major fault zone extremely fractured and some fault gouge, some fracturing seems to be at 20dca?? The lower contact is arbitrary due to severe fracturing within the fault zone.	Q185028	406.64	407.30	0.66	1.17	0.09	
			Q185029	407.30	408.00	0.70	0.07	0.05	
			Q185031	408.00	409.00	1.00	0.09	0.11	
			Q185030	408.00	409.00	1.00	0.09	0.1	
			Q185032	409.00	410.00	1.00	0.26	0.49	
			Q185033	410.00	411.00	1.00	0.16	0.32	
411.00 -	421.00	**GRPBX Graphitic Breccia** Grey to black with pale pink fragments, very altered. This breccia begins in a fault zone and continues through a second fault zone. 418.4-421 Fault zone with major fracturing and abundant fault gouge, some of the fractures with fault gouge are running sub-parallel with the core axis, it is possible that this is the same fault as above and that the fault is running at a similar dip as the hole in this area? The lower contact of this unit is also arbitrary as the rock is fractured too much to tell where the actual contact is.	Q185034	411.00	412.00	1.00	0.68	0.27	
			Q185036	412.00	413.00	1.00	6.42	0.26	
			Q185037	413.00	414.00	1.00	5.54	0.4	
			Q185038	414.00	415.00	1.00	2.4	0.22	
			Q185039	415.00	416.00	1.00	6.05	0.6	
			Q185040	416.00	417.00	1.00	13.8	0.32	
			Q185041	417.00	418.00	1.00	7.86	0.22	
			Q185042	418.00	419.00	1.00	4.44	0.32	
			Q185043	419.00	420.00	1.00	6.28	1.33	
			Q185045	420.00	421.00	1.00	1.79	0.36	
421.00 -	427.94	**SYENSL Syenite Sill (unmineralized)** Light grey, fine to medium grained with coarser grained sections, very hard, "gabbroic texture". There is no graphite associated with this unit. The lower contact is at 95dca.	Q185046	421.00	422.00	1.00	0.07	0.11	
			Q185047	422.00	423.00	1.00	0.02	0.03	
			Q185048	423.00	424.00	1.00	0.07	0.03	
			Q185049	424.00	425.00	1.00	0.05	0.03	
			Q185051	425.00	426.00	1.00	0.05	0.05	
			Q185050	425.00	426.00	1.00	0.03	0.05	
			Q185052	426.00	427.00	1.00	0.04	0.02	
			Q185053	427.00	427.94	0.94	0.19	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
427.94	428.60	**GRPBX Graphitic Breccia** Grey to black. Typical breccia with abundant graphite in the matrix and in fractures. Fragments nearer the lower contact are more insitu. The lower contact is at 43dca.	Q185054	427.94	428.60	0.66	6.69	0.59	
428.60	432.56	**GRDR Granodiorite** Grey to light grey, with pink and black, medium to coarse grained, hard. This rock seems to have more quartz than a diorite would have ~40%, it also contains biotite. There is trace disseminated pyrite throughout this unit. The lower contact is at 140 to the core axis.	Q185056	428.60	429.60	1.00	0.29	0.38	
			Q185057	429.60	430.60	1.00	0.15	0.45	
			Q185058	430.60	431.60	1.00	0.09	0.53	
			Q185059	431.60	432.56	0.96	0.14	0.41	
432.56	436.18	**SYENSL Syenite Sill (unmineralized)** Grey, medium grained and hard, "gabbroic texture". There are a few feldspar phenocrysts. There is minor carbonate and chlorite alteration along fractures. The lower contact is at 95dca.	Q185060	432.56	433.00	0.44	0.03	0.06	
			Q185061	433.00	434.00	1.00	0.03	0.05	
			Q185062	434.00	435.00	1.00	0.02	0.03	
			Q185063	435.00	436.18	1.18	0.02	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
436.18 -	453.10	**GRDROP Granodiorite with Graphitic Overprinting** Grey to light grey with pink/orange, medium to coarse grained. This Granodiorite does have weak graphite in fractures. 446.85-446.90, 449.72-449.82 small mafic dykes that are strongly altered and almost completely replaced with graphite and small amounts of chlorite. Lower contact at 35dca.	Q185065	436.18	437.00	0.82	1.04	0.31	
			Q185066	437.00	438.00	1.00	0.34	0.41	
			Q185067	438.00	439.00	1.00	0.26	0.36	
			Q185068	439.00	440.00	1.00	0.24	0.51	
			Q185069	440.00	441.00	1.00	0.38	0.42	
			Q185070	441.00	442.00	1.00	0.49	0.25	
			Q185071	441.00	442.00	1.00	0.47	0.27	
			Q185072	442.00	443.00	1.00	0.34	0.45	
			Q185073	443.00	444.00	1.00	0.24	0.29	
			Q185074	444.00	445.00	1.00	0.2	0.29	
			Q185076	445.00	446.00	1.00	0.26	0.47	
			Q185077	446.00	447.00	1.00	0.32	0.42	
			Q185078	447.00	448.00	1.00	0.32	0.39	
			Q185079	448.00	449.00	1.00	0.25	0.16	
			Q185080	449.00	449.70	0.70	0.36	0.28	
			Q185081	449.70	450.00	0.30	1.75	0.87	
			Q185082	450.00	451.00	1.00	0.22	0.29	
			Q185083	451.00	452.00	1.00	0.15	0.27	
			Q185085	452.00	453.10	1.10	1.11	0.47	
453.10 -	454.00	**MD Mafic Dyke** Black to dark grey, medium to coarse grained, soft. Biotite and chlorite alteration, unlike other mafic dykes that are this altered there is no graphite associated with it. There is a 10cm fractured area with fault gouge at the end of this unit. Lower contact at 45dca.	Q185086	453.10	454.00	0.90	1.04	0.38	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
454.00	457.61	**SYEN Syenite** Grey to pink medium grained, hard. There is light green chlorite alteration and dark red hematite along fractures and bleeding into the surrounding rock. Things are quite fractured in this area and the high alteration is probably due to possible faulting in the area. 455.30-456.20 moderate to strong fracturing. 456.60-456.70 strong fracturing. 457.00-457.61 moderate to strong fracturing. The lower contact is at 93dca.	Q185087	454.00	455.00	1.00	0.32	0.19	
			Q185088	455.00	456.00	1.00	0.07	0.11	
			Q185089	456.00	457.00	1.00	0.32	0.05	
			Q185091	457.00	457.61	0.61	0.17	0.22	
			Q185090	457.00	457.61	0.61	0.15	0.22	
457.61	461.18	**SYENSL Syenite Sill (unmineralized)** Grey to grey-green and white. Fine to medium grained and less hard, "gabbroic texture". This unit is also fractured in places. 457.94-458.27 extremely bleached white and fine grained with deep red hematite staining throughout especially along fractures. The lower contact is at 50dca. 458.54-461 moderate to strong fracturing.	Q185092	457.61	457.94	0.33	0.11	0.59	
			Q185093	457.94	458.26	0.32	0.04	0.08	
			Q185094	458.26	459.00	0.74	0.12	0.11	
			Q185096	459.00	460.00	1.00	0.08	0.17	
			Q185097	460.00	461.18	1.18	0.04	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
461.18	500.82	**GRDR Granodiorite** Grey with pink and areas and some black fleck throughout. Medium to coarse grained, hard. Mild chlorite alteration along fractures. There is no graphite associated with this unit. 465.53-465.67 fine grained grey, very hard mafic dyke. Upper Contact and Lower Contact 130dca. 471.61-471.71 similar dyke as above with UC and LC at 120dca. 486.6-486.85, 487.17-487.19, 487.27-487.41, 487.56-487.61 mafic dykes all with ~67dca. Lower contact at 53dca.	Q185098	461.18	462.00	0.82	0.05	0.14	
			Q185099	462.00	463.00	1.00	0.14	0.2	
			Q185100	463.00	464.00	1.00	0.25	0.29	
			Q185101	464.00	465.00	1.00	0.01	0.19	
			Q185102	465.00	466.00	1.00	0.02	0.2	
			Q185103	466.00	467.00	1.00	0.01	0.15	
			Q185105	467.00	468.00	1.00	0.11	0.32	
			Q185106	468.00	469.00	1.00	0.03	0.13	
			Q185107	469.00	470.00	1.00	0.01	0.09	
			Q185108	470.00	471.00	1.00	0.01	0.09	
			Q185109	471.00	472.00	1.00	0.01	0.09	
			Q185111	472.00	473.00	1.00	0.01	0.22	
			Q185110	472.00	473.00	1.00	0.01	0.21	
			Q185112	473.00	473.63	0.63	0.27	0.14	
			Q185113	473.63	474.28	0.65	0.25	0.35	
			Q185114	474.28	475.00	0.72	0.36	0.2	
			Q185116	475.00	476.00	1.00	0.89	0.25	
			Q185117	476.00	477.00	1.00	0.45	0.13	
			Q185118	477.00	478.00	1.00	0.45	0.2	
			Q185119	478.00	479.00	1.00	0.34	0.13	
			Q185120	479.00	480.00	1.00	0.5	0.22	
			Q185121	480.00	481.00	1.00	0.13	0.24	
			Q185122	481.00	482.00	1.00	0.2	0.39	
			Q185123	482.00	483.00	1.00	0.28	0.46	
			Q185125	483.00	484.00	1.00	0.56	0.54	
			Q185126	484.00	485.00	1.00	0.49	0.29	
			Q185127	485.00	486.00	1.00	0.89	0.26	
			Q185128	486.00	487.00	1.00	0.29	0.15	
			Q185129	487.00	488.00	1.00	0.17	0.4	
			Q185130	488.00	489.00	1.00	0.35	0.37	
			Q185131	488.00	489.00	1.00	0.29	0.34	
			Q185132	489.00	490.00	1.00	0.57	0.19	
			Q185133	490.00	491.00	1.00	0.03	0.15	
			Q185134	491.00	492.00	1.00	0.03	0.1	
			Q185136	492.00	493.00	1.00	0.02	0.05	
			Q185137	493.00	494.00	1.00	0.01	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q185138	494.00	495.00	1.00	0.05	0.11	
			Q185139	495.00	496.00	1.00	0.01	0.1	
			Q185140	496.00	497.00	1.00	0.15	0.13	
			Q185141	497.00	498.00	1.00	0.12	0.1	
			Q185142	498.00	499.00	1.00	0.02	0.05	
			Q185143	499.00	500.00	1.00	0.01	0.07	
			Q185145	500.00	500.82	0.82	0.04	0.04	
500.82	501.84	**MD Mafic Dyke** Dark grey, light green, fine grained and hard with chlorite fracture filling. No graphite associated with this unit. Lower contact at 65dca.	Q185146	500.82	501.84	1.02	0.07	0.05	
501.84	509.63	**GR Granite** Pink to orange with black and white, coarse grained and hard. There is no graphite associated with this unit. 506.88-507.02 dyke possibly medium grained diorite? Upper and lower contact at 53dca. EOH 509.63m	Q185147	501.84	503.00	1.16	0.06	0.04	
			Q185148	503.00	504.00	1.00	0.01	0.02	
			Q185149	504.00	505.00	1.00	0.01	0.01	
			Q185151	505.00	506.00	1.00	0.01	0.02	
			Q185150	505.00	506.00	1.00	0.01	0.02	
			Q185152	506.00	507.00	1.00	0.03	0.02	
			Q185153	507.00	508.00	1.00	0.05	0.03	
			Q185154	508.00	509.00	1.00	0.01	0.02	
			Q185156	509.00	509.63	0.63	0.01	0.04	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	381.00	29/09/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545700.8	682383.6			Reflex APS		02/09/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	125.60	119.90		-50.30	Chibougamau Diamond Drilling		03/09/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	317	*Casing Pulled*	*Casing (1)*	64.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test the West Pipe from WNW from near surface	This drill hole intersected several graphitic breccia intervals with minor sections of overprinted syenite. The first breccia interval was intersected from 64.00m to 114.30m for 50.30m . The second breccia interval runs from 125.75m to 254.80m for a total of 129.05m. From 64.00m to 327.30m, the assays averaged 3.21% Cg over 263.30m; within this intersection a higher grade graphite zone from 141.00m to 257.00m averaged 5.31% Cg over 116.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			126.2	117.2	-51.1	-51.1	☑	Reflex EZ	57554	
75.00			126.6	117.6	-51.1	-51.1	☑	Reflex EZ	57436	
78.00			126.5	117.5	-51.1	-51.1	☑	Reflex EZ	57386	
81.00			126.8	117.8	-51.2	-51.2	☑	Reflex EZ	57363	
84.00			126.3	117.3	-51	-51	☑	Reflex EZ	57353	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			125.7	116.7	-51	-51	☑	Reflex EZ	57333	
90.00			125.7	116.7	-50.9	-50.9	☑	Reflex EZ	57328	
96.00			126.3	117.3	-51.1	-51.1	☑	Reflex EZ	57299	
99.00			126	117	-51.1	-51.1	☑	Reflex EZ	57324	
102.00			125.5	116.5	-51	-51	☑	Reflex EZ	57292	
105.00			125.9	116.9	-51	-51	☑	Reflex EZ	57335	
108.00			125.3	116.3	-50.7	-50.7	☑	Reflex EZ	57286	
111.00			126.9	117.9	-51	-51	☑	Reflex EZ	57279	
114.00			126.6	117.6	-51.2	-51.2	☑	Reflex EZ	57253	
117.00			126.9	117.9	-51.1	-51.1	☑	Reflex EZ	57277	
120.00			125.6	116.6	-50.9	-50.9	☑	Reflex EZ	57308	
123.00			126.9	117.9	-50.9	-50.9	☑	Reflex EZ	57203	
126.00			126.7	117.7	-50.9	-50.9	☑	Reflex EZ	57249	
129.00			127	118	-51.1	-51.1	☑	Reflex EZ	57277	
132.00			125.5	116.5	-50.9	-50.9	☑	Reflex EZ	57304	
135.00			125.7	116.7	-51	-51	☑	Reflex EZ	57285	
138.00			126.7	117.7	-51.1	-51.1	☑	Reflex EZ	57267	
141.00			125.8	116.8	-50.9	-50.9	☑	Reflex EZ	57258	
144.00			125.8	116.8	-50.9	-50.9	☑	Reflex EZ	57267	
147.00			124.7	115.7	-50.2	-50.2	☑	Reflex EZ	57243	
150.00			125.7	116.7	-50.9	-50.9	☑	Reflex EZ	57271	
153.00			126.1	117.1	-51.1	-51.1	☑	Reflex EZ	57257	
156.00			126	117	-51	-51	☑	Reflex EZ	57260	
159.00			125.8	116.8	-50.9	-50.9	☑	Reflex EZ	57266	
165.00			125.7	116.7	-50.9	-50.9	☑	Reflex EZ	57259	
168.00			126.2	117.2	-50.9	-50.9	☑	Reflex EZ	57257	
171.00			126	117	-50.9	-50.9	☑	Reflex EZ	57230	
174.00			126.1	117.1	-50.9	-50.9	☑	Reflex EZ	57238	
177.00			125.9	116.9	-50.9	-50.9	☑	Reflex EZ	57237	
180.00			126	117	-50.9	-50.9	☑	Reflex EZ	57245	
183.00			125.6	116.6	-50.9	-50.9	☑	Reflex EZ	57293	
186.00			126.4	117.4	-50.9	-50.9	☑	Reflex EZ	57243	
189.00			127.2	118.2	-51.1	-51.1	☑	Reflex EZ	57284	
192.00			128	119	-51.1	-51.1	☑	Reflex EZ	57498	
195.00			126.3	117.3	-50.9	-50.9	☑	Reflex EZ	57239	
198.00			126.6	117.6	-51	-51	☑	Reflex EZ	57189	
201.00			127.7	118.7	-50.9	-50.9	☑	Reflex EZ	56993	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			126.4	117.4	-51.1	-51.1	☑	Reflex EZ	57179	
207.00			125.9	116.9	-50.9	-50.9	☑	Reflex EZ	57219	
210.00			125.9	116.9	-51	-51	☑	Reflex EZ	57212	
213.00			126	117	-51	-51	☑	Reflex EZ	57218	
216.00			126.7	117.7	-51	-51	☑	Reflex EZ	57230	
219.00			126.7	117.7	-51	-51	☑	Reflex EZ	57238	
222.00			126	117	-51.1	-51.1	☑	Reflex EZ	57255	
225.00			126.5	117.5	-51.2	-51.2	☑	Reflex EZ	57229	
228.00			126.4	117.4	-51.2	-51.2	☑	Reflex EZ	57233	
231.00			126.5	117.5	-51	-51	☑	Reflex EZ	57236	
234.00			126.4	117.4	-51	-51	☑	Reflex EZ	57239	
237.00			126	117	-51	-51	☑	Reflex EZ	57263	
240.00			126.3	117.3	-51	-51	☑	Reflex EZ	57256	
243.00			126.3	117.3	-51	-51	☑	Reflex EZ	57226	
246.00			126.4	117.4	-51	-51	☑	Reflex EZ	57212	
249.00			126.1	117.1	-51.1	-51.1	☑	Reflex EZ	57237	
252.00			126	117	-51.1	-51.1	☑	Reflex EZ	57242	
255.00			126.6	117.6	-51.3	-51.3	☑	Reflex EZ	56906	
258.00			127.1	118.1	-51.3	-51.3	☑	Reflex EZ	57254	
261.00			127.1	118.1	-51.2	-51.2	☑	Reflex EZ	57274	
264.00			126.6	117.6	-51.2	-51.2	☑	Reflex EZ	57294	
267.00			126.3	117.3	-51.4	-51.4	☑	Reflex EZ	57273	
270.00			126.7	117.7	-51.4	-51.4	☑	Reflex EZ	57154	
273.00			126.4	117.4	-51.5	-51.5	☑	Reflex EZ	57276	
276.00			126.2	117.2	-51.3	-51.3	☑	Reflex EZ	57276	
279.00			126.3	117.3	-51.3	-51.3	☑	Reflex EZ	57273	
282.00			127.2	118.2	-51.5	-51.5	☑	Reflex EZ	57268	
285.00			127.2	118.2	-51.5	-51.5	☑	Reflex EZ	57282	
288.00			127.3	118.3	-51.4	-51.4	☑	Reflex EZ	57297	
291.00			127.2	118.2	-51.5	-51.5	☑	Reflex EZ	57314	
294.00			127.1	118.1	-51.5	-51.5	☑	Reflex EZ	57299	
297.00			127.2	118.2	-51.5	-51.5	☑	Reflex EZ	57371	
300.00			127.3	118.3	-51.5	-51.5	☑	Reflex EZ	57272	
303.00			127.1	118.1	-51.5	-51.5	☑	Reflex EZ	57325	
306.00			125.8	116.8	-51.4	-51.4	☑	Reflex EZ	57302	
309.00			125.9	116.9	-51.3	-51.3	☑	Reflex EZ	57394	
312.00			127.3	118.3	-51.6	-51.6	☑	Reflex EZ	57314	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
315.00			127.2	118.2	-51.6	-51.6	☑	Reflex EZ	57309	
318.00			126.1	117.1	-51.5	-51.5	☑	Reflex EZ	57420	
321.00			126.6	117.6	-51.4	-51.4	☑	Reflex EZ	57376	
324.00			126.8	117.8	-51.4	-51.4	☑	Reflex EZ	57228	
327.00			126.7	117.7	-51.3	-51.3	☑	Reflex EZ	57951	
330.00			127	118	-51.4	-51.4	☑	Reflex EZ	57292	
333.00			127.5	118.5	-51.4	-51.4	☑	Reflex EZ	57234	
336.00			127	118	-51.4	-51.4	☑	Reflex EZ	57342	
339.00			127.1	118.1	-51.4	-51.4	☑	Reflex EZ	57326	
342.00			126.8	117.8	-51.3	-51.3	☑	Reflex EZ	57362	
345.00			126.1	117.1	-51.3	-51.3	☑	Reflex EZ	57405	
348.00			126.2	117.2	-51.3	-51.3	☑	Reflex EZ	57294	
351.00			126.2	117.2	-51.3	-51.3	☑	Reflex EZ	57293	
354.00			127.4	118.4	-51.4	-51.4	☑	Reflex EZ	57639	
357.00			126.7	117.7	-51.2	-51.2	☑	Reflex EZ	57320	
360.00			127	118	-51.5	-51.5	☑	Reflex EZ	57144	
363.00			127.3	118.3	-51.4	-51.4	☑	Reflex EZ	57142	
366.00			126.8	117.8	-51.4	-51.4	☑	Reflex EZ	57256	
369.00			126.5	117.5	-51.5	-51.5	☑	Reflex EZ	57284	
372.00			127.3	118.3	-51.4	-51.4	☑	Reflex EZ	57206	
375.00			127.2	118.2	-51.4	-51.4	☑	Reflex EZ	57290	
381.00			127.4	118.4	-51.4	-51.4	☑	Reflex EZ	57118	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	58.75	**OB Overburden** From 0 to 55.57m unknown overburden. Compacted sandy mud with subrounded clasts from 55.5 to 57.05m. From 57.05 to 58.75 limestone boulders mixed with gneissic and dark green intrusive boulders.							
58.75	64.00	**SED Sediment** Milky white to beige. Locally vuggy bioclastic limestone							
64.00	66.30	**GRPBX Graphitic Breccia** Medium grey to pinkish-grey, brecciated syenite. Moderate to good graphite content. Subangular to subrounded syenite fragments <5cm in size in graphite flooding matrix. Few carbonate veinlets at high angle to core axis.	N547532	64.00	65.15	1.15	3.02	0.02	
			N547533	65.15	66.30	1.15	3.63	0.01	
66.30	72.82	**SYENOP Syenite with Graphitic Overprinting** Pink to reddish-grey, medium grained syenite. Weak graphite overprinting as fracture filling veinlets near the upper contact with the breccia. Green to brownish-green, well foliated mafic dyke from 71.6 to 72.3m.	N547534	66.30	67.10	0.80	1.18	0.02	
			N547536	67.10	68.00	0.90	0.49	0.02	
			N547537	68.00	69.00	1.00	0.23	0.02	
			N547538	69.00	70.00	1.00	0.09	0.02	
			N547539	70.00	71.00	1.00	0.12	0.02	
			N547540	71.00	71.90	0.90	0.24	0.02	
			N547541	71.90	72.82	0.92	0.27	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
72.82	103.30	**GRPBX Graphitic Breccia** Medium to dark grey to reddish-grey, brecciated syenite. Angular syenite fragments 1-10cm in dark grey to black graphite flooded matrix. Good graphite content from upper contact to 91m. From 91 to 103.3 mix of breccia intervals with more or less barren or weakly overprinted syenite sections. 35-45% graphite breccia from 91 to 103.3m.	N547542	72.82	73.90	1.08	2.52	0.02	
			N547543	73.90	75.00	1.10	3	0.02	
			N547545	75.00	76.00	1.00	3.68	0.02	2.6
			N547546	76.00	77.00	1.00	2.82	0.03	2.58
			N547547	77.00	78.00	1.00	2.79	0.02	2.59
			N547548	78.00	79.00	1.00	3.31	0.04	2.29
			N547549	79.00	80.00	1.00	4.05	0.01	2.5
			N547550	80.00	81.00	1.00	3.94	0.02	
			N547552	81.00	82.00	1.00	4.79	0.05	
			N547553	82.00	83.00	1.00	1.8	0.1	
			N547554	83.00	84.00	1.00	2.39	0.06	
			N547556	84.00	85.00	1.00	1.46	0.07	
			N547557	85.00	86.00	1.00	4.41	0.03	
			N547558	86.00	87.00	1.00	3.11	0.05	
			N547559	87.00	88.00	1.00	4.06	0.05	
			N547560	88.00	89.00	1.00	4.84	0.04	
			N547561	89.00	90.00	1.00	4.3	0.05	
			N547562	90.00	91.00	1.00	5.24	0.06	
			N547563	91.00	92.00	1.00	0.76	0.14	
			N547565	92.00	93.00	1.00	3.01	0.1	
			N547566	93.00	94.00	1.00	2.85	0.12	
			N547567	94.00	95.00	1.00	0.58	0.14	
			N547568	95.00	96.00	1.00	4.88	0.04	
			N547569	96.00	97.00	1.00	0.86	0.05	
			N547570	97.00	98.00	1.00	0.67	0.06	
			N547572	98.00	99.00	1.00	4.89	0.08	
			N547573	99.00	100.00	1.00	5.46	0.09	
			N547574	100.00	101.10	1.10	2.45	0.11	
			N547576	101.10	102.20	1.10	3.15	0.12	
			N547577	102.20	103.30	1.10	1.32	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
103.30	112.50	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey, medium grained syenite. Weak graphite overprinting as odd fracture filling graphite veinlets. Fault gouge, broken core form 106.5-106.6m	N547578	103.30	104.30	1.00	0.14	0.07	
			N547579	104.30	105.20	0.90	2.72	0.21	
			N547580	105.20	106.10	0.90	0.95	0.21	
			N547581	106.10	107.00	0.90	5.88	0.12	
			N547582	107.00	108.00	1.00	3.85	0.17	
			N547583	108.00	109.00	1.00	2.03	0.09	
			N547585	109.00	109.90	0.90	0.29	0.11	
			N547586	109.90	110.80	0.90	1.63	0.18	
			N547587	110.80	111.70	0.90	0.18	0.11	
			N547588	111.70	112.50	0.80	1.83	0.18	
112.50	114.30	**GRPBX Graphitic Breccia** Dark grey, brecciated syenite. Good graphite as fracture filling veinlets.	N547589	112.50	113.40	0.90	2.93	0.17	
			N547590	113.40	114.30	0.90	5.8	0.2	
114.30	125.75	**SYENOP Syenite with Graphitic Overprinting** Dark grey to pinkish-grey, massive syenite. Moderate to good graphite overprinting as fracture filling graphite veinlets and minor brecciation from 115.9 to 118m. Trace pyrite at 120.2m. Coarse grained syenite from 122.7 to 125.75m.	N547592	114.30	115.30	1.00	0.07	0.03	
			N547593	115.30	116.30	1.00	2.19	0.1	
			N547594	116.30	117.30	1.00	4.07	0.16	
			N547596	117.30	118.30	1.00	3.93	0.17	
			N547597	118.30	119.30	1.00	0.29	0.09	2.6
			N547598	119.30	120.30	1.00	2.65	0.26	2.61
			N547599	120.30	121.30	1.00	1.95	0.45	2.68
			N547600	121.30	122.60	1.30	0.05	0.26	2.69
			N547601	122.60	123.70	1.10	0.83	0.09	2.64
			N547602	123.70	124.70	1.00	0.99	0.13	
			N547603	124.70	125.75	1.05	2.76	0.44	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
125.75	129.58	**GRPBX Graphitic Breccia** Medium to coarse grained dark grey, brecciated syenite. Moderate to good graphite as fracture filling veinlets and minor sections as graphite flooding in the matrix. Upper Contact at 40 dca. Lower Contact at 60 dca.	N547605	125.75	126.70	0.95	5.24	0.23	
			N547606	126.70	127.60	0.90	3.47	0.1	
			N547607	127.60	128.60	1.00	4.07	0.34	
			N547608	128.60	129.58	0.98	4.16	0.17	
129.58	135.00	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained syenite. Moderate graphite overprinting as fracture filling veinlets. 10cm fractured mafic dyke at 133.8.	N547609	129.58	130.50	0.92	1.56	0.34	
			N547610	130.50	131.40	0.90	0.84	0.27	
			N547612	131.40	132.30	0.90	0.36	0.23	
			N547613	132.30	133.20	0.90	1.37	0.43	
			N547614	133.20	134.10	0.90	3	0.26	
			N547616	134.10	135.00	0.90	3.96	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
135.00	186.59	**GRPBX Graphitic Breccia** Dark grey to reddish-grey, medium to coarse grained brecciated syenite. Good graphite as fracture filling veinlets and locally massive veins 5-10cm. Trace pyrite as blebs on fracture faces at 151.4m. Good graphite content from upper contact to 157 and from 175 to 181m. Most of the graphite in this section occurs a fracture filling veinlets with minor brecciated sections.	N547617	135.00	136.00	1.00	2.49	0.25	
			N547618	136.00	137.00	1.00	4.88	0.33	
			N547619	137.00	138.00	1.00	4.04	0.26	
			N547620	138.00	139.00	1.00	0.92	0.11	
			N547621	139.00	140.00	1.00	0.58	0.14	
			N547622	140.00	141.00	1.00	1.33	0.15	
			N547623	141.00	142.00	1.00	4.9	0.37	
			N547625	142.00	143.00	1.00	5.66	0.46	
			N547626	143.00	144.00	1.00	5.2	0.32	
			N547627	144.00	145.00	1.00	4.39	0.55	
			N547628	145.00	146.00	1.00	2.28	0.67	
			N547629	146.00	147.00	1.00	3.1	0.65	
			N547630	147.00	148.00	1.00	6.17	0.32	
			N547632	148.00	149.00	1.00	6.61	0.42	
			N547633	149.00	150.00	1.00	8.79	0.41	
			N547634	150.00	151.00	1.00	9.32	0.46	
			N547636	151.00	152.00	1.00	7.23	0.68	
			N547637	152.00	153.00	1.00	10.6	0.63	
			N547638	153.00	154.00	1.00	3.38	0.32	
			N547639	154.00	155.00	1.00	7.74	0.32	
			N547640	155.00	156.00	1.00	6.36	0.38	
			N547641	156.00	157.00	1.00	3.46	0.45	
			N547642	157.00	158.00	1.00	6.38	0.3	
			N547643	158.00	159.00	1.00	8.03	0.35	
			N547645	159.00	160.00	1.00	7.11	0.32	
			N547646	160.00	161.00	1.00	3.18	0.5	
			N547647	161.00	162.00	1.00	2.32	0.58	
			N547648	162.00	163.00	1.00	7.91	0.43	
			N547649	163.00	164.00	1.00	4.9	0.2	
			N547650	164.00	165.00	1.00	2.63	0.39	
			N547652	165.00	166.00	1.00	5.34	0.36	
			N547653	166.00	167.00	1.00	6.6	0.32	
			N547654	167.00	168.00	1.00	3.92	0.17	
			N547656	168.00	169.00	1.00	7.66	0.49	
			N547657	169.00	170.00	1.00	4.75	0.3	
			N547658	170.00	171.00	1.00	4.09	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N547659	171.00	172.00	1.00	3.78	0.2	
			N547660	172.00	173.00	1.00	2.51	0.15	
			N547661	173.00	174.00	1.00	2.56	0.2	
			N547662	174.00	175.00	1.00	4.67	0.28	
			N547663	175.00	176.00	1.00	5.91	0.49	
			N547665	176.00	177.00	1.00	6.36	0.73	
			N547666	177.00	178.00	1.00	7.38	0.72	
			N547667	178.00	179.00	1.00	5.81	0.3	
			N547668	179.00	180.00	1.00	3.98	0.54	
			N547669	180.00	181.00	1.00	8.76	0.33	
			N547670	181.00	182.00	1.00	5.27	0.25	
			N547672	182.00	182.90	0.90	5.51	0.21	
			N547673	182.90	183.80	0.90	3.91	0.5	
			N547674	183.80	184.70	0.90	6.59	0.29	
			N547676	184.70	185.70	1.00	3.99	0.37	
			N547677	185.70	186.59	0.89	6.24	0.16	
186.59	189.57	**SYENOP Syenite with Graphitic Overprinting**							
		Pinkish-grey, massive coarse syenite. Weak gneissic banding at 65 dca. Very weak graphite overprinting as odd fracture filling graphite veinlet. Upper contact sharp at 80 dca. Lower contact sharp at 85 dca.	N547678	186.59	187.60	1.01	0.11	0.06	
			N547679	187.60	188.60	1.00	0.08	0.04	
			N547680	188.60	189.57	0.97	0.28	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
189.57	254.80	**GRPBX Graphitic Breccia** Dark grey with pinkish-red sections brecciated syenite. Good graphite in the matrix and as fracture filling veinlets. Angular syenite fragments range from <1 to 10cm . Few dark green biotite rich mafic fragments. From 223.2 to 235m dark grey fine grained graphite rich matrix with small <1cm subangular to subrounded light grey syenite fragments. From 235 to the lower contact mainly fracture filling graphite veinlets and veins; good graphite content in medium to coarse grained syenite.	N547681	189.57	190.50	0.93	3.3	0.52	
			N547682	190.50	191.50	1.00	1.53	0.34	
			N547683	191.50	192.40	0.90	2.82	0.32	
			N547685	192.40	193.40	1.00	0.09	0.23	
			N547686	193.40	194.47	1.07	2.74	0.37	
			N547687	194.47	195.40	0.93	4.9	0.3	
			N547688	195.40	196.30	0.90	3.33	0.17	
			N547689	196.30	197.20	0.90	7.05	0.28	
			N547690	197.20	198.10	0.90	8.28	0.25	
			N547692	198.10	199.00	0.90	4.26	0.1	
			N547693	199.00	200.00	1.00	7.47	0.79	
			N547694	200.00	201.00	1.00	3.91	0.19	
			N547696	201.00	202.00	1.00	4.54	0.3	
			N547697	202.00	203.00	1.00	4.11	0.42	
			N547698	203.00	204.00	1.00	1.2	0.16	
			N547699	204.00	205.00	1.00	1.73	0.29	
			N547700	205.00	206.00	1.00	2.32	0.13	
			N547701	206.00	207.00	1.00	5.18	0.29	
			N547702	207.00	208.00	1.00	6.06	0.31	
			N547703	208.00	209.00	1.00	6.95	0.36	
			N547705	209.00	210.00	1.00	3.29	0.19	
			N547706	210.00	211.00	1.00	5.4	0.3	
			N547707	211.00	212.00	1.00	4.51	0.52	
			N547708	212.00	213.00	1.00	5.81	0.35	
			N547709	213.00	214.00	1.00	2.62	0.23	
			N547710	214.00	215.00	1.00	3.57	0.21	
			N547712	215.00	216.00	1.00	1.3	0.24	
			N547713	216.00	217.00	1.00	1.96	0.5	
			N547714	217.00	218.00	1.00	3.87	0.21	
			N547716	218.00	219.00	1.00	3.07	0.18	
			N547717	219.00	220.00	1.00	5.61	0.24	
			N547718	220.00	221.00	1.00	5.99	0.33	
			N547719	221.00	222.00	1.00	3.4	0.46	
			N547720	222.00	223.20	1.20	6.34	0.39	
			N547721	223.20	224.10	0.90	7.58	0.37	
			N547722	224.10	225.00	0.90	5.02	0.42	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N547723	225.00	226.00	1.00	8.47	0.43	
		N547725	226.00	227.00	1.00	8.11	0.41	2.61
		N547726	227.00	228.00	1.00	8.51	0.39	2.62
		N547727	228.00	229.00	1.00	8.64	0.41	2.6
		N547728	229.00	230.00	1.00	8.3	0.41	2.62
		N547729	230.00	231.00	1.00	9.4	0.36	2.61
		N547730	231.00	232.00	1.00	9.67	0.36	
		N547732	232.00	233.00	1.00	8.35	0.35	
		N547733	233.00	234.00	1.00	7.8	0.35	
		N547734	234.00	235.00	1.00	7.2	0.35	
		N547736	235.00	236.00	1.00	4.12	0.46	
		N547737	236.00	237.00	1.00	5.16	0.34	
		N547738	237.00	238.00	1.00	5.68	0.4	
		N547739	238.00	239.00	1.00	6.97	0.34	
		N547740	239.00	240.00	1.00	5.73	0.55	
		N547741	240.00	241.00	1.00	6.23	0.34	
		N547742	241.00	242.00	1.00	7.74	0.47	
		N547743	242.00	243.00	1.00	6.14	0.33	
		N547745	243.00	244.00	1.00	7.33	0.39	
		N547746	244.00	245.00	1.00	9.23	0.42	
		N547747	245.00	246.00	1.00	8.52	0.29	
		N547748	246.00	247.00	1.00	7.28	0.31	
		N547749	247.00	248.00	1.00	8.24	0.36	
		N547750	248.00	249.00	1.00	3.22	0.4	
		N547752	249.00	250.00	1.00	8.33	0.29	
		N547753	250.00	251.00	1.00	4.41	0.37	
		N547754	251.00	252.00	1.00	3.68	0.38	
		N547756	252.00	253.00	1.00	6.92	0.35	
		N547757	253.00	253.90	0.90	3.99	0.14	
		N547758	253.90	254.80	0.90	8.04	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
254.80	285.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium to coarse grained syenite. Weak graphite overprinting as fracture filling graphite veinlets near the upper contact and from 265 to 268.5m. Weak to locally moderate graphite overprinting from 274.7 to 279.5 and from 283.3 to 285m.	N547759	254.80	255.90	1.10	1.12	0.3	
			N547760	255.90	257.00	1.10	4.56	0.24	
			N547761	257.00	258.00	1.00	0.5	0.3	
			N547762	258.00	259.00	1.00	0.5	0.26	
			N547763	259.00	260.00	1.00	1.07	0.26	
			N547765	260.00	261.00	1.00	0.67	0.34	
			N547766	261.00	262.00	1.00	0.36	0.2	
			N547767	262.00	263.00	1.00	0.28	0.26	
			N547768	263.00	264.00	1.00	0.32	0.22	
			N547769	264.00	265.00	1.00	0.46	0.19	
			N547770	265.00	266.00	1.00	0.33	0.19	
			N547772	266.00	267.00	1.00	0.24	0.19	
			N547773	267.00	268.00	1.00	0.3	0.2	
			N547774	268.00	269.00	1.00	0.19	0.18	
			N547776	269.00	270.00	1.00	0.35	0.25	
			N547777	270.00	271.00	1.00	0.86	0.35	
			N547778	271.00	272.00	1.00	0.3	0.19	
			N547779	272.00	273.00	1.00	0.28	0.17	
			N547780	273.00	274.00	1.00	0.24	0.19	
			N547781	274.00	274.90	0.90	1.34	0.33	
			N547782	274.90	275.80	0.90	0.31	0.19	
			N547783	275.80	276.70	0.90	0.91	0.24	
			N547785	276.70	277.60	0.90	1.36	0.27	
			N547786	277.60	278.50	0.90	2.18	0.22	
			N547787	278.50	279.50	1.00	3.6	0.11	
			N547788	279.50	280.50	1.00	0.3	0.06	
			N547789	280.50	281.50	1.00	0.66	0.09	
			N547790	281.50	282.35	0.85	0.9	0.18	
			N547792	282.35	283.30	0.95	0.25	0.12	
			N547793	283.30	284.20	0.90	0.42	0.14	
			N547794	284.20	285.10	0.90	0.72	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
285.00 -	343.78	**SYEN Syenite** Medium grey to pinkish-grey, medium grained, massive syenite. No visible graphite. Blocky core from 299.8 to 303m. 60cm lost core grounded from 301.2 to 301.8m.	N547796	285.10	286.00	0.90	1.01	0.16	
			N547797	286.00	287.00	1.00	0.57	0.15	
			N547798	287.00	288.00	1.00	0.88	0.26	
			N547799	288.00	289.00	1.00	1.78	0.46	
			N547800	289.00	290.00	1.00	2.84	0.53	
			N547801	290.00	291.00	1.00	1.21	0.31	
			N547802	291.00	292.00	1.00	0.87	0.29	
			N547803	292.00	293.00	1.00	0.78	0.26	
			N547805	293.00	294.00	1.00	0.71	0.42	
			N547806	294.00	295.00	1.00	0.19	0.27	
			N547807	295.00	296.00	1.00	0.28	0.13	
			N547808	296.00	297.00	1.00	0.26	0.2	
			N547809	297.00	298.00	1.00	0.45	0.23	
			N547810	298.00	299.00	1.00	0.36	0.13	
			N547812	299.00	300.00	1.00	0.62	0.5	
			N547813	300.00	301.20	1.20	0.22	0.06	
			N547814	301.20	302.40	1.20	0.11	0.04	
			N547816	302.40	303.30	0.90	0.19	0.18	
			N547817	303.30	304.20	0.90	0.13	0.24	
			N547818	304.20	305.20	1.00	0.13	0.26	
			N547819	305.20	306.20	1.00	0.19	0.21	
			N547820	306.20	307.10	0.90	0.18	0.24	
			N547821	307.10	308.00	0.90	0.11	0.21	
			N547822	308.00	309.00	1.00	0.08	0.19	
			N547823	309.00	310.00	1.00	0.07	0.07	
			N547825	310.00	311.00	1.00	0.04	0.03	
			N547826	311.00	312.00	1.00	0.06	0.21	
			N547827	312.00	313.00	1.00	0.18	0.21	
			N547828	313.00	314.00	1.00	0.11	0.18	
			N547829	314.00	315.00	1.00	0.16	0.24	
			N547830	315.00	316.00	1.00	0.14	0.13	
			N547832	316.00	317.00	1.00	0.19	0.13	
			N547833	317.00	318.00	1.00	0.14	0.1	
			N547834	318.00	319.00	1.00	0.1	0.14	
			N547836	319.00	320.00	1.00	0.1	0.18	
			N547837	320.00	321.00	1.00	0.08	0.22	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N547838	321.00	322.00	1.00	0.28	0.26	
		N547839	322.00	322.80	0.80	0.62	0.2	
		N547840	322.80	323.57	0.77	0.37	0.16	
		N547841	323.57	324.60	1.03	1.9	1.23	
		N547842	324.60	325.50	0.90	0.21	0.17	
		N547843	325.50	326.40	0.90	0.74	0.36	
		N547845	326.40	327.30	0.90	0.32	0.22	
		N547846	327.30	328.20	0.90	0.15	0.12	
		N547847	328.20	329.10	0.90	0.09	0.11	
		N547848	329.10	330.00	0.90	0.11	0.11	
		N547849	330.00	331.00	1.00	0.14	0.13	
		N547850	331.00	332.00	1.00	0.16	0.16	
		N547852	332.00	333.00	1.00	0.12	0.15	
		N547853	333.00	334.09	1.09	0.09	0.14	
		N547854	334.09	335.14	1.05	0.2	0.23	
		N547856	335.14	336.20	1.06	0.1	0.21	
		N547857	336.20	337.10	0.90	0.11	0.15	
		N547858	337.10	338.00	0.90	0.13	0.1	
		N547859	338.00	339.00	1.00	0.08	0.07	
		N547860	339.00	340.00	1.00	0.15	0.12	
		N547861	340.00	341.00	1.00	0.15	0.05	
		N547862	341.00	342.00	1.00	0.13	0.14	
		N547863	342.00	342.90	0.90	0.17	0.07	
		N547865	342.90	343.78	0.88	0.07	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
343.78	369.25	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained massive intrusive. Upper contact sharp at 40 dca. From 346 to 351.38m. Mix of sill unit with dark gray fine grained fragments of intermediate dyke plus porphyritic intermediate dike from 348.8 to 350.7m. From 351.38 to 369.25 fairly uniform medium grained. Lower contact sharp at 35 dca.	N547866	343.78	345.00	1.22	0.06	0.1	
			N547867	345.00	346.00	1.00	0.04	0.01	
			N547868	346.00	347.00	1.00	0.04	0.02	
			N547869	347.00	348.00	1.00	0.11	0.02	
			N547870	348.00	349.00	1.00	0.02	0.03	
			N547872	349.00	350.00	1.00	0.08	0.08	
			N547873	350.00	350.70	0.70	0.14	0.03	
			N547874	350.70	351.38	0.68	0.06	0.02	
			N547876	351.38	352.30	0.92	0.14	0.01	
			N547877	352.30	353.20	0.90	0.08	0.01	
			N547878	353.20	354.10	0.90	0.06	0.02	
			N547879	354.10	355.00	0.90	0.08	0.01	
			N547880	355.00	356.00	1.00	0.01	0.01	
			N547881	356.00	357.00	1.00	0.02	0.01	
			N547882	357.00	358.00	1.00	0.04	0.04	
			N547883	358.00	359.00	1.00	0.05	0.02	
			N547885	359.00	360.00	1.00	0.02	0.02	
			N547886	360.00	361.00	1.00	0.18	0.02	
			N547887	361.00	362.00	1.00	0.03	0.03	
			N547888	362.00	363.00	1.00	0.02	0.03	
			N547889	363.00	364.00	1.00	0.02	0.04	
			N547890	364.00	365.00	1.00	0.06	0.07	
			N547892	365.00	366.00	1.00	0.03	0.11	
			N547893	366.00	367.00	1.00	0.04	0.08	
			N547894	367.00	368.10	1.10	0.04	0.05	
			N547896	368.10	369.25	1.15	0.01	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
369.25	379.38	**SYEN Syenite** Pinkish-grey, medium to coarse grained massive syenite. No visible graphite. Lower contact sharp at 60 dca.	N547897	369.25	370.20	0.95	0.05	0.12	
			N547898	370.20	371.10	0.90	0.05	0.1	
			N547899	371.10	372.00	0.90	0.06	0.07	
			N547900	372.00	373.00	1.00	0.05	0.11	
			N547901	373.00	374.00	1.00	0.09	0.08	
			N547902	374.00	375.00	1.00	0.05	0.08	
			N547903	375.00	376.10	1.10	0.07	0.07	
			N547905	376.10	377.20	1.10	0.08	0.08	
			N547906	377.20	378.30	1.10	0.1	0.09	
			N547907	378.30	379.38	1.08	0.06	0.05	
379.38	381.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive, "gabbroic texture". EOH 381.0m	N547908	379.38	380.20	0.82	0.05	0.06	
			N547909	380.20	381.00	0.80	0.03	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	411.00	02/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545782.4	682380.9			Reflex APS	06/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.70	116.30		-49.30	Chibougamau Diamond Drilling	06/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	349	*Casing Pulled*	*Casing (1)*	62.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test West Pipe from the WNW	This hole intersected 40.90m of graphitic breccia from 84.40m to 125.30m; 73.60m of graphitic breccia from 147.20m to 220.80m and 26.95m and 16.37m from 251.75m to 306.17m. This drill hole also intersected the western boundary of the West Pipe. From 81.00m to 306.17m, the assays from this intersection averaged 2.59% Cg over 225.17m; within this intersection a higher grade graphite zone from 84.40m to 235.00m averaged 3.0% Cg over 150.60m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
84.00			123.2	114.2	-50	-50	☑	Reflex EZ	56128	
87.00			123.3	114.3	-49.9	-49.9	☑	Reflex EZ	56127	
90.00			123.7	114.7	-50	-50	☑	Reflex EZ	56124	
93.00			123.2	114.2	-49.9	-49.9	☑	Reflex EZ	56104	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
96.00			122.7	113.7	-49.5	-49.5	☑	Reflex EZ	56122	
99.00			123.3	114.3	-49.9	-49.9	☑	Reflex EZ	56109	
102.00			123.2	114.2	-50	-50	☑	Reflex EZ	56094	
105.00			123.5	114.5	-49.9	-49.9	☑	Reflex EZ	56094	
108.00			123.4	114.4	-50	-50	☑	Reflex EZ	56086	
111.00			123.3	114.3	-49.9	-49.9	☑	Reflex EZ	56097	
114.00			123.4	114.4	-50	-50	☑	Reflex EZ	56073	
117.00			123.4	114.4	-50	-50	☑	Reflex EZ	56052	
120.00			123.3	114.3	-50	-50	☑	Reflex EZ	56068	
123.00			124	115	-50	-50	☑	Reflex EZ	56140	
126.00			123.4	114.4	-50.1	-50.1	☑	Reflex EZ	56059	
129.00			123.3	114.3	-50.1	-50.1	☑	Reflex EZ	56023	
132.00			123.9	114.9	-50	-50	☑	Reflex EZ	55975	
135.00			125.9	116.9	-50.1	-50.1	☑	Reflex EZ	55942	
138.00			123.3	114.3	-49.9	-49.9	☑	Reflex EZ	56164	
141.00			124.1	115.1	-50.1	-50.1	☑	Reflex EZ	56185	
144.00			123.7	114.7	-50.1	-50.1	☑	Reflex EZ	55921	
147.00			124.3	115.3	-50.1	-50.1	☑	Reflex EZ	56121	
150.00			124.3	115.3	-50.2	-50.2	☑	Reflex EZ	56107	
153.00			123.8	114.8	-50.2	-50.2	☑	Reflex EZ	56114	
156.00			123.4	114.4	-50.1	-50.1	☑	Reflex EZ	56113	
159.00			123.9	114.9	-50.2	-50.2	☑	Reflex EZ	56104	
162.00			124.3	115.3	-50.2	-50.2	☑	Reflex EZ	56111	
165.00			123.9	114.9	-50.3	-50.3	☑	Reflex EZ	56073	
168.00			124.4	115.4	-50.2	-50.2	☑	Reflex EZ	56099	
171.00			124.4	115.4	-50.4	-50.4	☑	Reflex EZ	56129	
174.00			123.7	114.7	-50.3	-50.3	☑	Reflex EZ	56116	
177.00			124.3	115.3	-50.3	-50.3	☑	Reflex EZ	56046	
180.00			123.9	114.9	-50.3	-50.3	☑	Reflex EZ	56076	
183.00			124.1	115.1	-50.3	-50.3	☑	Reflex EZ	56044	
186.00			123.9	114.9	-50.4	-50.4	☑	Reflex EZ	56016	
192.00			124.1	115.1	-50.4	-50.4	☑	Reflex EZ	56070	
195.00			124.6	115.6	-50.6	-50.6	☑	Reflex EZ	56045	
198.00			124.5	115.5	-50.5	-50.5	☑	Reflex EZ	56081	
201.00			124.2	115.2	-50.5	-50.5	☑	Reflex EZ	56057	
204.00			123.9	114.9	-50.5	-50.5	☑	Reflex EZ	56030	
207.00			124	115	-50.4	-50.4	☑	Reflex EZ	56125	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			124.1	115.1	-50.4	-50.4	☑	Reflex EZ	56087	
213.00			124	115	-50.4	-50.4	☑	Reflex EZ	56075	
216.00			124.4	115.4	-50.5	-50.5	☑	Reflex EZ	56130	
219.00			124.6	115.6	-50.6	-50.6	☑	Reflex EZ	56088	
222.00			124.6	115.6	-50.5	-50.5	☑	Reflex EZ	56100	
225.00			123.5	114.5	-50.5	-50.5	☑	Reflex EZ	56246	
228.00			123.1	114.1	-50.4	-50.4	☑	Reflex EZ	56390	
231.00			124.3	115.3	-50.5	-50.5	☑	Reflex EZ	56044	
234.00			123.1	114.1	-50.4	-50.4	☑	Reflex EZ	56520	
237.00			124.5	115.5	-50.5	-50.5	☑	Reflex EZ	57065	
240.00			124.7	115.7	-50.3	-50.3	☑	Reflex EZ	56129	
243.00			123.4	114.4	-50.3	-50.3	☑	Reflex EZ	56016	
246.00			124.3	115.3	-50.4	-50.4	☑	Reflex EZ	56236	
249.00			123.9	114.9	-50.3	-50.3	☑	Reflex EZ	56104	
252.00			123.7	114.7	-50.3	-50.3	☑	Reflex EZ	56279	
255.00			123.7	114.7	-50.3	-50.3	☑	Reflex EZ	56084	
258.00			123.7	114.7	-50.4	-50.4	☑	Reflex EZ	56124	
261.00			123.7	114.7	-50.3	-50.3	☑	Reflex EZ	56151	
264.00			123.8	114.8	-50.3	-50.3	☑	Reflex EZ	56161	
267.00			124.3	115.3	-50.4	-50.4	☑	Reflex EZ	56155	
270.00			124.1	115.1	-50.4	-50.4	☑	Reflex EZ	56147	
273.00			123.7	114.7	-50.5	-50.5	☑	Reflex EZ	56136	
276.00			123.7	114.7	-50.3	-50.3	☑	Reflex EZ	56187	
279.00			123.4	114.4	-50.4	-50.4	☑	Reflex EZ	56116	
282.00			123.7	114.7	-50.4	-50.4	☑	Reflex EZ	56017	
285.00			124.1	115.1	-50.5	-50.5	☑	Reflex EZ	56028	
288.00			124.7	115.7	-50.8	-50.8	☑	Reflex EZ	56083	
291.00			123.4	114.4	-50.3	-50.3	☑	Reflex EZ	56087	
294.00			123.7	114.7	-50.4	-50.4	☑	Reflex EZ	56134	
297.00			123.9	114.9	-50.4	-50.4	☑	Reflex EZ	56097	
300.00			124.5	115.5	-50.5	-50.5	☑	Reflex EZ	55997	
303.00			124.4	115.4	-50.5	-50.5	☑	Reflex EZ	56178	
309.00			123.7	114.7	-50.5	-50.5	☑	Reflex EZ	56180	
312.00			124.7	115.7	-50.5	-50.5	☑	Reflex EZ	56164	
315.00			124.9	115.9	-50.6	-50.6	☑	Reflex EZ	55745	
318.00			125	116	-50.5	-50.5	☑	Reflex EZ	55974	
321.00			124.3	115.3	-50.5	-50.5	☑	Reflex EZ	55976	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
324.00			124.8	115.8	-50.6	-50.6	☑	Reflex EZ	56043	
327.00			124.9	115.9	-50.5	-50.5	☑	Reflex EZ	56019	
330.00			124.5	115.5	-50.6	-50.6	☑	Reflex EZ	55941	
333.00			124.5	115.5	-50.5	-50.5	☑	Reflex EZ	56094	
336.00			123.5	114.5	-50.5	-50.5	☑	Reflex EZ	55984	
339.00			124.4	115.4	-50.6	-50.6	☑	Reflex EZ	55927	
342.00			124.9	115.9	-50.5	-50.5	☑	Reflex EZ	56072	
345.00			124.1	115.1	-50.6	-50.6	☑	Reflex EZ	55838	
348.00			124.5	115.5	-50.5	-50.5	☑	Reflex EZ	55714	
351.00			124.1	115.1	-50.7	-50.7	☑	Reflex EZ	56032	
354.00			123.9	114.9	-50.6	-50.6	☑	Reflex EZ	55955	
357.00			124.3	115.3	-50.7	-50.7	☑	Reflex EZ	55852	
360.00			125.4	116.4	-50.8	-50.8	☑	Reflex EZ	56081	
363.00			124.2	115.2	-50.6	-50.6	☑	Reflex EZ	56394	
366.00			125.4	116.4	-50.7	-50.7	☑	Reflex EZ	55937	
372.00			123.8	114.8	-50.7	-50.7	☑	Reflex EZ	56173	
375.00			123.8	114.8	-50.9	-50.9	☑	Reflex EZ	55923	
378.00			125	116	-50.8	-50.8	☑	Reflex EZ	56048	
381.00			125	116	-50.9	-50.9	☑	Reflex EZ	55986	
384.00			126	117	-51	-51	☑	Reflex EZ	55851	
387.00			125	116	-50.9	-50.9	☑	Reflex EZ	55992	
390.00			125.9	116.9	-51	-51	☑	Reflex EZ	55885	
393.00			125.4	116.4	-50.9	-50.9	☑	Reflex EZ	55929	
396.00			125.4	116.4	-51	-51	☑	Reflex EZ	55842	
399.00			124.9	115.9	-51	-51	☑	Reflex EZ	55918	
402.00			125.4	116.4	-51.1	-51.1	☑	Reflex EZ	55953	
405.00			124.9	115.9	-51.1	-51.1	☑	Reflex EZ	55891	
408.00			125.3	116.3	-51.1	-51.1	☑	Reflex EZ	55750	
411.00			125.7	116.7	-51.1	-51.1	☑	Reflex EZ	55927	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	61.00	**OB Overburden** From 0 to 57m unknown overburden. From 57 to 61m mixture of mud and boulders of limestone and gneiss.							
61.00	62.00	**SED Sediment** White to greyish-white limestone, vuggy. Broken core, rubble at lower contact.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
62.00	84.40	**SYEN Syenite** Medium grey to reddish-grey, medium grained, massive syenite. Weak graphite overprint from 65.4 to 65.7. Lower contact sharp at 45 dca.	N547910	62.00	63.00	1.00	0.22	0.27	
			N547912	63.00	64.00	1.00	0.11	0.03	
			N547913	64.00	65.00	1.00	0.1	0.05	
			N547914	65.00	66.00	1.00	0.94	0.04	
			N547916	66.00	67.00	1.00	0.27	0.04	
			N547917	67.00	68.00	1.00	0.08	0.03	
			N547918	68.00	69.00	1.00	0.04	0.04	
			N547919	69.00	70.00	1.00	0.12	0.05	
			N547920	70.00	71.00	1.00	0.12	0.05	
			N547921	71.00	72.00	1.00	0.09	0.01	
			N547922	72.00	73.00	1.00	0.09	0.03	
			N547923	73.00	74.00	1.00	0.07	0.09	
			N547925	74.00	75.00	1.00	0.1	0.06	
			N547926	75.00	76.00	1.00	0.18	0.11	
			N547927	76.00	77.00	1.00	0.15	0.08	
			N547928	77.00	78.00	1.00	0.12	0.04	
			N547929	78.00	79.00	1.00	0.15	0.11	
			N547930	79.00	80.00	1.00	0.09	0.16	
			N547932	80.00	81.00	1.00	0.13	0.03	
			N547933	81.00	82.00	1.00	0.33	0.04	
			N547934	82.00	83.00	1.00	0.55	0.07	
			N547936	83.00	83.70	0.70	1.64	0.06	
			N547937	83.70	84.40	0.70	0.39	0.08	
84.40	88.70	**GRPBX Graphitic Breccia** Brecciated syenite. Good graphite in the matrix. Angular syenite fragments <5cm in size. Syenite section from 85.3 to 86.05m. Minor carbonate veinlets from 88 to 88.7m.	N547938	84.40	85.30	0.90	9.31	0.03	2.55
			N547939	85.30	86.20	0.90	1.92	0.06	2.59
			N547940	86.20	87.00	0.80	8.19	0.06	2.55
			N547941	87.00	87.90	0.90	8.42	0.03	2.53
			N547942	87.90	88.70	0.80	5.35	0.04	2.5

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
88.70	94.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained syenite. Weak to moderate graphite overprinting as fracture filling graphite veinlets from 89 to 92. Lower contact at 40 dca.	N547943	88.70	89.80	1.10	0.93	0.02	
			N547945	89.80	90.90	1.10	1.12	0.06	
			N547946	90.90	92.00	1.10	1.68	0.07	
			N547947	92.00	93.00	1.00	1.29	0.03	
			N547948	93.00	94.00	1.00	0.86	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
94.00	- 125.30	**GRPBX Graphitic Breccia** Brecciated syenite. Medium grey to pink , angular syenite fragments in dark grey, fine grained graphite matrix. Fragments size range from <1cm up to 15cm and a few large 30-50cm. From 97.4 to 99.5 syenite section, pink, massive medium grained. From 108.9 to 109.5 porphyritic intermediate dyke. Dark grey fine grained with pink feldspar phenocrysts. From 117 to 122m good graphite mainly as fracture filling graphite veinlets in pinkish-grey massive syenite section.	N547949	94.00	95.00	1.00	7.34	0.06	
			N547950	95.00	96.00	1.00	6.25	0.06	
			N547952	96.00	97.00	1.00	3.35	0.12	
			N547953	97.00	98.00	1.00	1.13	0.02	
			N547954	98.00	99.00	1.00	0.2	0.08	
			N547956	99.00	100.00	1.00	1.78	0.07	
			N547957	100.00	101.00	1.00	5.55	0.1	
			N547958	101.00	102.00	1.00	2.25	0.14	
			N547959	102.00	103.00	1.00	4.27	0.11	
			N547960	103.00	104.00	1.00	4.78	0.21	
			N547961	104.00	105.00	1.00	5.41	0.18	
			N547962	105.00	106.00	1.00	6.7	0.14	
			N547963	106.00	107.00	1.00	3.72	0.22	
			N547965	107.00	108.00	1.00	4.66	0.27	
			N547966	108.00	109.00	1.00	2.47	0.23	
			N547967	109.00	110.00	1.00	2.69	0.38	
			N547968	110.00	111.00	1.00	3.25	0.17	
			N547969	111.00	112.00	1.00	3.85	0.1	
			N547970	112.00	113.00	1.00	5.06	0.16	
			N547972	113.00	114.00	1.00	4.17	0.2	
			N547973	114.00	115.00	1.00	5.15	0.21	
			N547974	115.00	116.00	1.00	5.69	0.3	
			N547976	116.00	117.00	1.00	5.57	0.58	
			N547977	117.00	118.00	1.00	2.95	0.17	
			N547978	118.00	119.00	1.00	0.6	0.13	
			N547979	119.00	120.00	1.00	0.24	0.08	
			N547980	120.00	121.00	1.00	1.21	0.09	
			N547981	121.00	122.00	1.00	2.7	0.21	
			N547982	122.00	123.00	1.00	4.07	0.29	
			N547983	123.00	124.15	1.15	4.54	0.23	
			N547985	124.15	125.30	1.15	4.8	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
125.30 -	130.25	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained fractured syenite. Good graphite as fracture filling veinlets. Lower contact sharp, irregular.	N547986	125.30	126.30	1.00	0.87	0.19	
			N547987	126.30	127.30	1.00	2.71	0.2	
			N547988	127.30	128.30	1.00	2.02	0.26	
			N547989	128.30	129.30	1.00	2.5	0.25	
			N547990	129.30	130.25	0.95	0.27	0.22	
130.25 -	135.15	**IDP Intermediate Dike (Porphyritic)** Medium to dark grey, fine gained matrix with pink and white subhedral feldspar phenocrysts (3-5mm) and dark green subrounded amphibole phenocrysts 1-3mm. Lower contact sharp but irregular.	N547992	130.25	131.20	0.95	0.12	0.33	
			N547993	131.20	132.20	1.00	0.16	0.52	
			N547994	132.20	133.20	1.00	0.14	0.31	
			N547996	133.20	134.20	1.00	0.1	0.39	
			N547997	134.20	135.15	0.95	0.1	0.44	
135.15 -	137.80	**GRPBX Graphitic Breccia** Medium to dark grey, brecciated syenite. Graphite flooding in the matrix and as veinlets moderate to locally good graphite content. Lower contact sharp at 85 dca.	N547998	135.15	136.05	0.90	3.18	0.45	
			N547999	136.05	136.95	0.90	4.98	0.57	
			N548000	136.95	137.80	0.85	4.54	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
137.80	147.20	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained massive syenite. Moderate graphite content as fracture filling veinlets and as minor brecciated sections from 139.2 to 140.5m and from 145 to 146.5m. 20-25% graphitic breccia in this section. Lower contact sharp at 40 dca.	N548001	137.80	138.90	1.10	0.89	0.25	
			N548002	138.90	140.00	1.10	3.57	0.21	
			N548003	140.00	141.00	1.00	3.36	0.15	
			N548005	141.00	142.00	1.00	0.37	0.18	
			N548006	142.00	143.00	1.00	0.28	0.18	
			N548007	143.00	144.00	1.00	0.35	0.27	
			N548008	144.00	145.00	1.00	1.39	0.12	
			N548009	145.00	146.10	1.10	2.58	0.13	
			N548010	146.10	147.20	1.10	0.81	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
147.20	220.85	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained brecciated syenite. Good graphite content mainly as fracture filling veinlets and as flooding in the matrix. From 162 to 178m fragments size range from <1 to 30cm. A few large metre scale possible syenite boulders from 178.15 to 180.2m and from 188.2 to 190.2m. Good graphite content a flooding in the matrix and as graphite veinlets and locally few cm large veins at 208m. Few light green to grey mafic fragments or small mafic dyke with graphite overprinting at 205.6 and 210.2m. Syenite fragments become coarse grained from 213 to the lower contact.	N548012	147.20	148.10	0.90	2.05	0.2	
			N548013	148.10	149.00	0.90	2.96	0.27	
			N548014	149.00	150.00	1.00	4.74	0.18	
			N548016	150.00	151.00	1.00	3.36	0.29	2.67
			N548017	151.00	152.00	1.00	0.96	0.14	2.61
			N548018	152.00	153.00	1.00	1.23	0.07	2.6
			N548019	153.00	154.00	1.00	1.53	0.1	2.66
			N548020	154.00	155.00	1.00	4.85	0.26	2.63
			N548021	155.00	156.00	1.00	2.92	0.18	
			N548022	156.00	157.00	1.00	4.49	0.22	
			N548023	157.00	158.00	1.00	1.37	0.46	
			N548025	158.00	159.00	1.00	0.11	0.18	
			N548026	159.00	160.00	1.00	0.51	0.16	
			N548027	160.00	161.00	1.00	3.33	0.24	
			N548028	161.00	162.00	1.00	4.41	0.3	
			N548029	162.00	163.00	1.00	2.42	0.42	
			N548030	163.00	164.00	1.00	6.14	1.28	
			N548032	164.00	165.00	1.00	2.71	0.23	
			N548033	165.00	166.00	1.00	3.86	0.3	
			N548034	166.00	167.00	1.00	2.58	0.15	
			N548036	167.00	168.00	1.00	3.76	0.49	
			N548037	168.00	169.00	1.00	4.14	0.25	
			N548038	169.00	170.00	1.00	6.14	0.49	
			N548039	170.00	171.00	1.00	5.91	0.34	
			N548040	171.00	172.00	1.00	4.91	0.23	
			N548041	172.00	173.00	1.00	4.03	0.27	
			N548042	173.00	174.00	1.00	6.14	0.71	
			N548043	174.00	175.00	1.00	3.49	0.35	
			N548045	175.00	176.00	1.00	2.24	0.32	
			N548046	176.00	177.00	1.00	1.33	0.23	
			N548047	177.00	178.00	1.00	2.45	0.26	
			N548048	178.00	179.00	1.00	1.16	0.08	
			N548049	179.00	180.00	1.00	0.06	0.07	
			N548050	180.00	181.00	1.00	3.46	0.45	
			N548052	181.00	182.00	1.00	3.33	0.24	
			N548053	182.00	183.00	1.00	1.93	0.16	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N548054	183.00	184.00	1.00	1.24	0.64	
		N548056	184.00	185.00	1.00	1.72	0.21	
		N548057	185.00	186.00	1.00	1.87	0.22	
		N548058	186.00	187.00	1.00	2.42	0.27	
		N548059	187.00	188.00	1.00	0.71	0.44	
		N548060	188.00	189.00	1.00	0.61	0.18	
		N548061	189.00	190.00	1.00	0.06	0.05	
		N548062	190.00	191.00	1.00	3.66	0.41	
		N548063	191.00	192.00	1.00	6.07	0.42	
		N548065	192.00	193.00	1.00	5.36	0.51	
		N548066	193.00	194.00	1.00	6.96	0.53	
		N548067	194.00	195.00	1.00	4.22	0.46	
		N548068	195.00	196.00	1.00	4.29	0.3	
		N548069	196.00	197.00	1.00	5.72	0.63	
		N548070	197.00	198.00	1.00	1.45	0.24	
		N548072	198.00	199.00	1.00	2.26	0.26	
		N548073	199.00	200.00	1.00	4.84	0.36	
		N548074	200.00	201.00	1.00	6.8	0.67	
		N548076	201.00	202.00	1.00	5.89	0.55	
		N548077	202.00	203.00	1.00	1.84	0.52	
		N548078	203.00	204.00	1.00	0.46	0.93	
		N548079	204.00	205.00	1.00	0.53	0.19	
		N548080	205.00	206.00	1.00	5.11	1.14	
		N548081	206.00	207.00	1.00	3.25	0.53	
		N548082	207.00	208.00	1.00	6.32	0.56	
		N548083	208.00	209.00	1.00	8.77	0.48	
		N548085	209.00	210.00	1.00	3.93	0.35	
		N548086	210.00	211.00	1.00	4.01	0.38	
		N548087	211.00	212.00	1.00	2.69	0.42	
		N548088	212.00	213.00	1.00	3.73	0.5	
		N548089	213.00	214.00	1.00	2.97	0.52	
		N548090	214.00	215.00	1.00	0.5	0.16	
		N548092	215.00	216.00	1.00	1.1	0.27	
		N548093	216.00	217.00	1.00	5.34	0.72	
		N548094	217.00	218.00	1.00	4.12	0.63	
		N548096	218.00	218.90	0.90	2.66	0.51	
		N548097	218.90	219.90	1.00	2.44	0.47	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548098	219.90	220.85	0.95	1.44	0.42	
220.85	235.00	**FBX Felsic Breccia** Medium to dark grey, very fine grained, banding at 55 dca ca felsic breccia. Very fine white fragments 1-2mm in very fine grained matrix. Not conductive. Upper contact brecciated. The size of the fragments increases gradually from 228m onward.	N548099	220.85	221.90	1.05	3.7	0.53	
			N548100	221.90	222.80	0.90	2.82	0.39	
			N548101	222.80	223.60	0.80	2.65	0.4	
			N548102	223.60	224.40	0.80	2.72	0.33	
			N548103	224.40	225.86	1.46	0.09	0.25	
			N548105	225.86	227.00	1.14	2.47	0.31	
			N548106	227.00	228.00	1.00	1.91	0.34	
			N548107	228.00	229.00	1.00	2.16	0.41	
			N548108	229.00	230.00	1.00	1.81	0.59	
			N548109	230.00	231.00	1.00	1.21	0.51	
			N548110	231.00	232.00	1.00	0.46	0.14	
			N548112	232.00	233.00	1.00	1.57	0.39	
			N548113	233.00	234.00	1.00	1.97	0.39	
			N548114	234.00	235.00	1.00	1.72	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
235.00	252.60	**GRDR Granodiorite** Medium grey to greenish-grey with a light pink hue, massive granodiorite. ~10% dark green mafic minerals in a fine to medium grained ground mass of feldspar and quartz. Both contacts irregular.	N548116	235.00	236.00	1.00	0.01	0.21	
			N548117	236.00	237.00	1.00	0.03	0.21	
			N548118	237.00	238.00	1.00	0.06	0.11	
			N548119	238.00	239.00	1.00	0.13	0.08	
			N548120	239.00	240.00	1.00	0.05	0.16	
			N548121	240.00	241.00	1.00	0.1	0.06	
			N548122	241.00	242.00	1.00	0.04	0.11	
			N548123	242.00	243.00	1.00	0.04	0.08	
			N548125	243.00	244.00	1.00	0.04	0.09	
			N548126	244.00	245.00	1.00	0.1	0.06	
			N548127	245.00	246.00	1.00	0.06	0.08	
			N548128	246.00	247.00	1.00	0.05	0.07	
			N548129	247.00	248.00	1.00	0.06	0.06	
			N548130	248.00	249.00	1.00	0.03	0.06	
			N548132	249.00	250.00	1.00	0.01	0.07	
			N548133	250.00	250.90	0.90	0.04	0.07	
			N548134	250.90	251.80	0.90	0.06	0.14	
			N548136	251.80	252.60	0.80	0.06	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
252.60	278.70	**GRPBX Graphitic Breccia** Dark grey to almost black fine grained matrix with angular syenite fragments. Matrix supported breccia. Fragments range from <1 to 15cm in size. Conductive, probably due to fine graphite in the matrix. Looks similar to felsic breccia but is conductive. Size and amount of fragments increases downhole from 270 to 277.73m. Lower contact sharp at 45 dca. Overall moderate to weak graphite content.	N548137	252.60	253.70	1.10	2.74	0.37	2.63
			N548138	253.70	254.80	1.10	2.49	0.32	2.64
			N548139	254.80	255.90	1.10	2.83	0.33	2.64
			N548140	255.90	257.00	1.10	3.23	0.35	2.65
			N548141	257.00	258.00	1.00	3.4	0.34	2.67
			N548142	258.00	259.00	1.00	3.05	0.34	
			N548143	259.00	260.00	1.00	2.52	0.26	
			N548145	260.00	261.00	1.00	3.59	0.3	
			N548146	261.00	262.00	1.00	3.6	0.27	
			N548147	262.00	263.00	1.00	3.89	0.26	
			N548148	263.00	264.00	1.00	3.17	0.24	
			N548149	264.00	265.00	1.00	3.79	0.29	
			N548150	265.00	266.00	1.00	3.07	0.29	
			N548152	266.00	267.00	1.00	3.16	0.29	
			N548153	267.00	268.00	1.00	2.95	0.29	
			N548154	268.00	269.00	1.00	2.07	0.29	
			N548156	269.00	270.00	1.00	2.24	0.28	
			N548157	270.00	271.00	1.00	2.81	0.35	
			N548158	271.00	272.00	1.00	2.95	0.27	
			N548159	272.00	273.00	1.00	2.59	0.31	
			N548160	273.00	274.00	1.00	2.92	0.28	
			N548161	274.00	275.00	1.00	3.06	0.32	
			N548162	275.00	276.00	1.00	1.69	0.19	
			N548163	276.00	277.00	1.00	2.3	0.24	
			N548165	277.00	277.73	0.73	2.63	0.16	
			N548166	277.73	278.70	0.97	0.02	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
278.70	289.80	**SYENSL Syenite Sill (unmineralized)** Mix of medium grained, massive greenish-grey, "gabbroic texture", and fine grained, dark grey massive intermediate dyke sections that alternate. Two conductive sections from 279 to 279.5 and from 286 to 286.3m. It looks like the sill unit has intruded and/or brecciated the intermediate dyke.	N548167	278.70	279.50	0.80	1.66	0.09	
			N548168	279.50	280.40	0.90	0.04	0.03	
			N548169	280.40	281.30	0.90	0.05	0.05	
			N548170	281.30	282.20	0.90	0.06	0.09	
			N548172	282.20	283.10	0.90	0.02	0.03	
			N548173	283.10	284.00	0.90	0.03	0.02	
			N548174	284.00	285.00	1.00	0.03	0.03	
			N548176	285.00	286.00	1.00	0.03	0.07	
			N548177	286.00	287.00	1.00	0.86	0.14	
			N548178	287.00	288.00	1.00	0.05	0.04	
			N548179	288.00	289.00	1.00	0.03	0.04	
			N548180	289.00	289.87	0.87	0.15	0.06	
289.80	306.17	**GRPBX Graphitic Breccia** Graphitic breccia with angular syenite fragments in a fine grained dark grey matrix. Looks more like a typical graphitic breccia. The amount of graphite appears to increase downhole.	N548181	289.87	290.90	1.03	3.49	0.23	
			N548182	290.90	292.00	1.10	2.38	0.25	
			N548183	292.00	293.00	1.00	3.04	0.3	
			N548185	293.00	294.00	1.00	3.79	0.35	
			N548186	294.00	295.00	1.00	2.37	0.18	
			N548187	295.00	296.00	1.00	1.69	0.21	
			N548188	296.00	297.00	1.00	1.03	0.21	
			N548189	297.00	298.00	1.00	0.38	0.15	
			N548190	298.00	299.00	1.00	2.91	0.25	
			N548192	299.00	300.00	1.00	3.69	0.3	
			N548193	300.00	301.00	1.00	3.71	0.33	
			N548194	301.00	302.00	1.00	4.57	0.32	
			N548196	302.00	303.00	1.00	3.33	0.26	
			N548197	303.00	304.00	1.00	3.07	0.3	
			N548198	304.00	305.10	1.10	4.58	0.28	
			N548199	305.10	306.17	1.07	7.63	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
306.17	308.95	**SYEN Syenite** Dark grey to pinkish-grey, medium grained massive syenite. Dark grey, fine grained, massive intermediate dyke from 307.85 to 308.25m. The dyke has intruded at the contact with the gabbro below.	N548200	306.17	307.15	0.98	0.21	0.43	
			N548201	307.15	308.05	0.90	0.04	0.1	
			N548202	308.05	308.95	0.90	0.03	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
308.95	396.00	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, massive, medium to locally coarse grained intrusive. Blocky core form 319 to 320.4m. Dark grey fine grained fragments of intermediate dyke near the upper contact and fro 317 to 323m. This unit becomes more medium grained with a slat and pepper texture from 348 to 365m no visible contacts. Could be just a textural change. Blocky core from 357.3 to 358m. Fairly uniform from 360 to the lower contact.	N548203	308.95	310.00	1.05	0.07	0.05	
			N548205	310.00	311.00	1.00	0.02	0.02	
			N548206	311.00	312.00	1.00	0.01	0.02	
			N548207	312.00	313.50	1.50	0.05	0.02	
			N548208	313.50	315.00	1.50	0.03	0.01	
			N548209	315.00	316.50	1.50	0.03	0.02	
			N548210	316.50	318.00	1.50	0.03	0.02	
			N548212	318.00	319.50	1.50	0.03	0.04	
			N548213	319.50	321.00	1.50	0.05	0.05	
			N548214	321.00	322.50	1.50	0.15	0.02	
			N548216	322.50	324.00	1.50	0.07	0.03	
			N548217	324.00	325.50	1.50	0.04	0.02	
			N548218	325.50	327.00	1.50	0.03	0.02	
			N548219	327.00	328.50	1.50	0.04	0.01	
			N548220	328.50	330.00	1.50	0.02	0.01	
			N548221	330.00	331.50	1.50	0.02	0.01	
			N548222	331.50	333.00	1.50	0.01	0.01	
			N548223	333.00	334.50	1.50	0.01	0.02	
			N548225	334.50	336.00	1.50	0.03	0.04	
			N548226	336.00	337.50	1.50	0.07	0.02	
			N548227	337.50	339.00	1.50	0.02	0.02	
			N548228	339.00	340.50	1.50	0.05	0.05	
			N548229	340.50	342.00	1.50	0.09	0.06	
			N548230	342.00	343.50	1.50	0.03	0.02	
			N548232	343.50	345.00	1.50	0.02	0.02	
			N548233	345.00	346.50	1.50	0.03	0.03	
			N548234	346.50	348.00	1.50	0.03	0.03	
			N548236	348.00	349.50	1.50	0.03	0.03	
			N548237	349.50	351.00	1.50	0.03	0.02	
			N548238	351.00	352.50	1.50	0.03	0.04	
			N548239	352.50	354.00	1.50	0.01	0.04	
			N548240	354.00	355.50	1.50	0.06	0.08	
			N548241	355.50	357.00	1.50	0.06	0.3	
			N548242	357.00	358.50	1.50	0.05	0.31	
			N548243	358.50	360.00	1.50	0.07	0.05	
			N548245	360.00	361.50	1.50	0.04	0.03	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N548246	361.50	363.00	1.50	0.03	0.04	
		N548247	363.00	364.50	1.50	0.02	0.02	
		N548248	364.50	366.00	1.50	0.03	0.05	
		N548249	366.00	367.50	1.50	0.04	0.03	
		N548250	367.50	369.00	1.50	0.01	0.02	
		N548252	369.00	370.50	1.50	0.03	0.04	
		N548253	370.50	372.00	1.50	0.08	0.02	
		N548254	372.00	373.50	1.50	0.03	0.03	
		N548256	373.50	375.00	1.50	0.01	0.03	
		N548257	375.00	376.50	1.50	0.01	0.09	
		N548258	376.50	378.00	1.50	0.01	0.05	
		N548259	378.00	379.50	1.50	0.01	0.04	
		N548260	379.50	381.00	1.50	0.06	0.02	
		N548261	381.00	382.50	1.50	0.03	0.04	
		N548262	382.50	384.00	1.50	0.03	0.03	
		N548263	384.00	385.50	1.50	0.01	0.04	
		N548265	385.50	387.00	1.50	0.04	0.03	
		N548266	387.00	388.50	1.50	0.04	0.05	
		N548267	388.50	390.00	1.50	0.01	0.03	
		N548268	390.00	391.50	1.50	0.01	0.06	
		N548269	391.50	393.00	1.50	0.03	0.24	
		N548270	393.00	394.50	1.50	0.01	0.04	
		N548272	394.50	396.00	1.50	0.02	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
396.00	411.00	**SYEN Syenite** Light grey to pinkish-grey, coarse, massive syenite. No visible graphite. Dark green, massive chloritic mafic dyke from 407.00m to 408.00m. EOH 411.0m	N548273	396.00	397.50	1.50	0.11	0.18	
			N548274	397.50	399.00	1.50	0.05	0.13	
			N548276	399.00	400.50	1.50	0.12	0.22	
			N548277	400.50	402.00	1.50	0.11	0.22	
			N548278	402.00	403.50	1.50	0.18	0.15	
			N548279	403.50	405.00	1.50	0.2	0.07	
			N548280	405.00	406.00	1.00	0.14	0.07	
			N548281	406.00	407.00	1.00	0.12	0.02	
			N548282	407.00	408.00	1.00	0.07	0.15	
			N548283	408.00	409.50	1.50	0.14	0.08	
			N548285	409.50	411.00	1.50	0.16	0.08	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	378.00	06/09/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545820	682434.9			Reflex APS		10/09/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	124.20	116.80		-50.60	Chibougamau Diamond Drilling		11/09/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	316	*Casing Pulled*	*Casing (1)*	62.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited		

Purpose	*Results*	*Comments*
Test West Pipe from the Northwest.	This drill hole intersected several graphititc breccia intervals ranging in thickness from 3 to 39.4 m. The main graphitic breccia interval was intersected from 63.90m to 231.35m for a total length of 167.45m. This zone includes several overprinted syenite sections that range in thickness from 2.45m to 6.80m. The second breccia zone was intersected from 245.32m to 255.83m for 10.51m. The deepest breccia zone was intersected from 297.20m to 304.90m for 7.70m. The assays from 63.90m to 255.83m averaged 3.77% Cg over 191.93m; within this intersection a higher grade graphite zone from 75.00m to 191.40m averaged 4.78% Cg over 116.40m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
75.00			124.3	115.3	-49.7	-49.7	☑	Reflex EZ	56579	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
78.00			124.5	115.5	-49.9	-49.9	☑	Reflex EZ	56221	
81.00			125.4	116.4	-49.9	-49.9	☑	Reflex EZ	56212	
84.00			126.2	117.2	-50	-50	☑	Reflex EZ	56213	
87.00			125	116	-50.1	-50.1	☑	Reflex EZ	56179	
90.00			124.8	115.8	-50.1	-50.1	☑	Reflex EZ	56102	
93.00			124.8	115.8	-50.1	-50.1	☑	Reflex EZ	56086	
96.00			125.1	116.1	-50.2	-50.2	☑	Reflex EZ	56113	
99.00			125.3	116.3	-50.1	-50.1	☑	Reflex EZ	56086	
102.00			125.8	116.8	-50.1	-50.1	☑	Reflex EZ	56139	
105.00			125	116	-50.2	-50.2	☑	Reflex EZ	56090	
108.00			125.5	116.5	-50.2	-50.2	☑	Reflex EZ	56137	
111.00			124.6	115.6	-50.1	-50.1	☑	Reflex EZ	56065	
114.00			125.1	116.1	-50.1	-50.1	☑	Reflex EZ	56037	
117.00			124.7	115.7	-50.1	-50.1	☑	Reflex EZ	56035	
120.00			125.2	116.2	-50.2	-50.2	☑	Reflex EZ	56093	
123.00			125	116	-50.3	-50.3	☑	Reflex EZ	56076	
126.00			124.9	115.9	-50.2	-50.2	☑	Reflex EZ	56059	
129.00			125.2	116.2	-50.2	-50.2	☑	Reflex EZ	55933	
132.00			125.9	116.9	-50.2	-50.2	☑	Reflex EZ	56159	
135.00			125.2	116.2	-50.3	-50.3	☑	Reflex EZ	56064	
138.00			125.7	116.7	-50.2	-50.2	☑	Reflex EZ	56079	
141.00			126.3	117.3	-50.3	-50.3	☑	Reflex EZ	56157	
144.00			126.1	117.1	-50.4	-50.4	☑	Reflex EZ	56133	
147.00			125.5	116.5	-50.3	-50.3	☑	Reflex EZ	56034	
150.00			126.8	117.8	-50.3	-50.3	☑	Reflex EZ	56126	
153.00			126.2	117.2	-50.3	-50.3	☑	Reflex EZ	56093	
156.00			126.2	117.2	-50.4	-50.4	☑	Reflex EZ	56064	
159.00			126	117	-50.2	-50.2	☑	Reflex EZ	56048	
162.00			126	117	-50.4	-50.4	☑	Reflex EZ	56043	
165.00			125.7	116.7	-50.3	-50.3	☑	Reflex EZ	56065	
168.00			126.4	117.4	-50.4	-50.4	☑	Reflex EZ	56022	
171.00			126	117	-50.4	-50.4	☑	Reflex EZ	56052	
174.00			126	117	-50.4	-50.4	☑	Reflex EZ	55993	
177.00			125.3	116.3	-50.4	-50.4	☑	Reflex EZ	56258	
180.00			126.5	117.5	-50.6	-50.6	☑	Reflex EZ	55944	
183.00			126.2	117.2	-50.5	-50.5	☑	Reflex EZ	55917	
186.00			125.7	116.7	-50.5	-50.5	☑	Reflex EZ	56156	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
189.00			127.1	118.1	-50.6	-50.6	☑	Reflex EZ	56150	
192.00			128.6	119.6	-50.6	-50.6	☑	Reflex EZ	56271	
195.00			126	117	-50.5	-50.5	☑	Reflex EZ	56036	
198.00			126.1	117.1	-50.6	-50.6	☑	Reflex EZ	56004	
201.00			125.9	116.9	-50.5	-50.5	☑	Reflex EZ	55987	
204.00			127.5	118.5	-50.6	-50.6	☑	Reflex EZ	55979	
207.00			127.2	118.2	-50.6	-50.6	☑	Reflex EZ	56075	
210.00			126.8	117.8	-50.5	-50.5	☑	Reflex EZ	56060	
213.00			125.8	116.8	-50.5	-50.5	☑	Reflex EZ	55997	
216.00			127	118	-50.6	-50.6	☑	Reflex EZ	56018	
222.00			127	118	-50.7	-50.7	☑	Reflex EZ	56034	
225.00			126.3	117.3	-50.7	-50.7	☑	Reflex EZ	56112	
228.00			126.9	117.9	-50.6	-50.6	☑	Reflex EZ	56184	
231.00			127.1	118.1	-50.7	-50.7	☑	Reflex EZ	56098	
234.00			127	118	-50.6	-50.6	☑	Reflex EZ	56161	
237.00			126.4	117.4	-50.5	-50.5	☑	Reflex EZ	56378	
240.00			126.3	117.3	-50.5	-50.5	☑	Reflex EZ	56135	
243.00			127.2	118.2	-50.6	-50.6	☑	Reflex EZ	56164	
246.00			126.5	117.5	-50.5	-50.5	☑	Reflex EZ	56072	
249.00			127.3	118.3	-50.6	-50.6	☑	Reflex EZ	56146	
252.00			126.5	117.5	-50.5	-50.5	☑	Reflex EZ	56121	
255.00			126.5	117.5	-50.6	-50.6	☑	Reflex EZ	56140	
258.00			127.2	118.2	-50.5	-50.5	☑	Reflex EZ	56183	
261.00			127.5	118.5	-50.5	-50.5	☑	Reflex EZ	56193	
264.00			126.5	117.5	-50.4	-50.4	☑	Reflex EZ	56126	
267.00			126.3	117.3	-50.4	-50.4	☑	Reflex EZ	56148	
270.00			126.7	117.7	-50.3	-50.3	☑	Reflex EZ	56140	
273.00			126.8	117.8	-50.3	-50.3	☑	Reflex EZ	56003	
276.00			126.3	117.3	-50.3	-50.3	☑	Reflex EZ	56166	
279.00			126.6	117.6	-50.3	-50.3	☑	Reflex EZ	56053	
282.00			125.9	116.9	-50.4	-50.4	☑	Reflex EZ	56072	
285.00			126.3	117.3	-50.4	-50.4	☑	Reflex EZ	56171	
288.00			127.9	118.9	-50.5	-50.5	☑	Reflex EZ	56114	
291.00			127.2	118.2	-50.5	-50.5	☑	Reflex EZ	56092	
294.00			126.5	117.5	-50.5	-50.5	☑	Reflex EZ	56174	
297.00			128.2	119.2	-51.6	-51.6	☑	Reflex EZ	56201	
300.00			126.2	117.2	-50.5	-50.5	☑	Reflex EZ	56140	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
303.00			125.9	116.9	-50.5	-50.5	☑	Reflex EZ	56020	
306.00			126.3	117.3	-50.6	-50.6	☑	Reflex EZ	56194	
309.00			126.9	117.9	-50.7	-50.7	☑	Reflex EZ	56199	
312.00			127.1	118.1	-50.7	-50.7	☑	Reflex EZ	56139	
315.00			126.9	117.9	-50.6	-50.6	☑	Reflex EZ	56159	
318.00			126.5	117.5	-50.5	-50.5	☑	Reflex EZ	56165	
321.00			126.5	117.5	-50.5	-50.5	☑	Reflex EZ	56214	
324.00			127.6	118.6	-50.6	-50.6	☑	Reflex EZ	55904	
327.00			127.6	118.6	-50.6	-50.6	☑	Reflex EZ	55966	
330.00			127	118	-50.4	-50.4	☑	Reflex EZ	55876	
333.00			128.2	119.2	-50.6	-50.6	☑	Reflex EZ	55928	
336.00			126.6	117.6	-50.4	-50.4	☑	Reflex EZ	55680	
339.00			126.7	117.7	-50.4	-50.4	☑	Reflex EZ	55849	
342.00			126.6	117.6	-50.4	-50.4	☑	Reflex EZ	55932	
345.00			126.9	117.9	-50.4	-50.4	☑	Reflex EZ	55813	
348.00			127.3	118.3	-50.4	-50.4	☑	Reflex EZ	55978	
351.00			127.1	118.1	-50.4	-50.4	☑	Reflex EZ	55923	
354.00			127.5	118.5	-50.4	-50.4	☑	Reflex EZ	55928	
357.00			126.8	117.8	-50.4	-50.4	☑	Reflex EZ	55881	
360.00			127.8	118.8	-50.6	-50.6	☑	Reflex EZ	56031	
363.00			127.3	118.3	-50.5	-50.5	☑	Reflex EZ	56030	
366.00			127.2	118.2	-50.3	-50.3	☑	Reflex EZ	55940	
369.00			127.6	118.6	-50.6	-50.6	☑	Reflex EZ	56064	
375.00			128	119	-50.5	-50.5	☑	Reflex EZ	55975	
378.00			127.5	118.5	-50.5	-50.5	☑	Reflex EZ	55835	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	- 63.90	**OB Overburden** From 0 to 60.8 unknown overburden. From 60.8 to 63.9 mix of boulders of limestone, intrusive and clay sections.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.90	- 101.40	**GRPBX Graphitic Breccia** Black to dark grey to reddish-grey breccia. From 63.9 to 78m angular syenite fragments <5cm in size in black matrix. Matrix supported breccia, not-conductive possibly due to paleo-weathering of this section. Friable core. From 78 to 81.5m moderate carbonate veining in reddish-brown brecciated syenite weak paleo-weathering. From 84m onward the core is conductive, moderate to good graphite content in reddish-brown to dark grey brecciated syenite. Few 5cm massive graphite veins. From 99.4 to 100.3m blocky core, moderate fracturing, minor fault gouge.	N548286	63.90	65.00	1.10	1.72	0.03	
			N548287	65.00	66.00	1.00	2.88	0.03	
			N548288	66.00	67.00	1.00	2.83	0.07	
			N548289	67.00	68.00	1.00	2.21	0.04	
			N548290	68.00	69.00	1.00	3.17	0.03	
			N548292	69.00	70.00	1.00	3.11	0.02	
			N548293	70.00	71.00	1.00	2.68	0.03	
			N548294	71.00	72.00	1.00	2.71	0.03	
			N548296	72.00	73.00	1.00	1.21	0.02	
			N548297	73.00	74.00	1.00	1.96	0.005	1.95
			N548298	74.00	75.00	1.00	0.81	0.04	2.06
			N548299	75.00	76.00	1.00	3.66	0.09	1.98
			N548300	76.00	77.00	1.00	3.53	0.07	2.11
			N548301	77.00	78.00	1.00	5.46	0.04	2.19
			N548302	78.00	79.00	1.00	6.06	0.02	
			N548303	79.00	80.00	1.00	4.34	0.03	
			N548305	80.00	81.00	1.00	6.67	0.05	
			N548306	81.00	82.00	1.00	4.79	0.17	
			N548307	82.00	83.00	1.00	6.29	0.05	
			N548308	83.00	84.00	1.00	5.87	0.02	
			N548309	84.00	85.00	1.00	5.34	0.02	
			N548310	85.00	86.00	1.00	6.67	0.02	
			N548312	86.00	87.00	1.00	9.39	0.04	
			N548313	87.00	88.00	1.00	4.83	0.03	
			N548314	88.00	89.00	1.00	5.18	0.01	
			N548316	89.00	90.00	1.00	5.54	0.05	
			N548317	90.00	91.00	1.00	9.06	0.23	
			N548318	91.00	92.00	1.00	6.89	0.04	
			N548319	92.00	93.00	1.00	9.3	0.06	
			N548320	93.00	94.00	1.00	1.54	0.13	
			N548321	94.00	95.00	1.00	8.46	0.13	
			N548322	95.00	96.00	1.00	7.26	0.02	
			N548323	96.00	97.00	1.00	2.34	0.04	
			N548325	97.00	98.00	1.00	6.73	0.02	
			N548326	98.00	99.00	1.00	0.63	0.16	
			N548327	99.00	99.80	0.80	3.93	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548328	99.80	100.60	0.80	9.03	0.08	
			N548329	100.60	101.40	0.80	9.59	0.04	
101.40	107.30	**SYENOP Syenite with Graphitic Overprinting**							
		Grey to reddish-grey, medium grained massive syenite. Weak to moderate graphite overprinting as fracture filling graphite veinlets	N548330	101.40	102.30	0.90	4.29	0.05	
			N548332	102.30	103.30	1.00	1.56	0.08	
			N548333	103.30	104.30	1.00	1.49	0.03	
			N548334	104.30	105.30	1.00	2.61	0.18	
			N548336	105.30	106.30	1.00	2.53	0.08	
			N548337	106.30	107.30	1.00	2.74	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
107.30	146.70	**GRPBX Graphitic Breccia** Grey to dark grey, brecciated syenite, good graphite in the matrix. Angular syenite fragments 3-20cm. Fracture filling graphite veinlets. Trace sulphides as pyrite blebs.	N548338	107.30	108.20	0.90	6.35	0.12	
			N548339	108.20	109.10	0.90	5.95	0.3	
			N548340	109.10	110.00	0.90	5.97	0.06	
			N548341	110.00	111.00	1.00	7.32	0.05	
			N548342	111.00	112.00	1.00	7.65	0.06	
			N548343	112.00	113.00	1.00	6.47	0.08	
			N548345	113.00	114.00	1.00	2.24	0.09	2.6
			N548346	114.00	115.00	1.00	3.89	0.12	2.61
			N548347	115.00	116.00	1.00	8.92	0.08	2.55
			N548348	116.00	117.00	1.00	5.97	0.17	2.63
			N548349	117.00	118.00	1.00	8.77	0.11	2.55
			N548350	118.00	119.00	1.00	6.03	0.12	
			N548352	119.00	120.00	1.00	6.3	0.26	
			N548353	120.00	121.00	1.00	9.15	0.64	
			N548354	121.00	122.00	1.00	5.72	0.24	
			N548356	122.00	123.00	1.00	6.56	0.33	
			N548357	123.00	124.00	1.00	0.26	0.33	
			N548358	124.00	125.00	1.00	1.07	0.29	
			N548359	125.00	126.00	1.00	4.06	0.37	
			N548360	126.00	127.00	1.00	4.16	0.51	
			N548361	127.00	128.00	1.00	5.55	0.26	
			N548362	128.00	129.00	1.00	5.21	0.24	
			N548363	129.00	130.00	1.00	5.84	0.18	
			N548365	130.00	131.00	1.00	5.89	0.22	
			N548366	131.00	132.00	1.00	5.72	0.3	
			N548367	132.00	133.00	1.00	2.55	0.17	
			N548368	133.00	134.00	1.00	3.61	0.25	
			N548369	134.00	135.00	1.00	2.7	0.3	
			N548370	135.00	136.00	1.00	4.63	0.35	
			N548372	136.00	137.00	1.00	5.82	0.43	
			N548373	137.00	138.00	1.00	5.94	0.24	
			N548374	138.00	139.00	1.00	3.38	0.89	
			N548376	139.00	140.00	1.00	5.49	0.5	
			N548377	140.00	141.00	1.00	5.67	0.57	
			N548378	141.00	142.00	1.00	5.32	0.38	
			N548379	142.00	143.00	1.00	7.16	0.71	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548380	143.00	144.00	1.00	4.51	0.67	
			N548381	144.00	144.90	0.90	6.57	0.51	
			N548382	144.90	145.80	0.90	8.46	0.39	
			N548383	145.80	146.70	0.90	4.25	0.42	
146.70	149.15	**SYENOP Syenite with Graphitic Overprinting**							
		Medium to dark grey, medium to coarse grained massive syenite. Weak graphite overprinting as odd fracture filling graphite veinlets.	N548385	146.70	147.90	1.20	0.82	0.33	
			N548386	147.90	149.15	1.25	2.91	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
149.15	191.40	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained brecciated syenite. Good graphite in the matrix and as fracture filling veinlets.	N548387	149.15	150.10	0.95	6.97	0.5	
			N548388	150.10	151.00	0.90	6.51	0.38	
			N548389	151.00	152.00	1.00	3.84	0.17	
			N548390	152.00	153.00	1.00	2.88	0.62	
			N548392	153.00	154.00	1.00	2.64	0.21	
			N548393	154.00	154.94	0.94	4.11	0.29	
			N548394	154.94	155.95	1.01	0.13	0.15	
			N548396	155.95	157.00	1.05	2.13	0.3	
			N548397	157.00	158.00	1.00	3.61	0.4	
			N548398	158.00	159.00	1.00	4.3	0.27	
			N548399	159.00	160.00	1.00	2.1	0.26	
			N548400	160.00	161.00	1.00	4.18	0.37	
			N548401	161.00	162.00	1.00	5.32	0.67	
			N548402	162.00	163.00	1.00	3.46	0.48	
			N548403	163.00	164.00	1.00	4.53	0.6	
			N548405	164.00	165.00	1.00	8.06	0.62	
			N548406	165.00	166.00	1.00	3.33	0.67	
			N548407	166.00	167.00	1.00	4.38	0.46	
			N548408	167.00	168.00	1.00	3.86	0.49	
			N548409	168.00	169.00	1.00	2.42	0.4	
			N548410	169.00	170.00	1.00	5.6	0.36	
			N548412	170.00	171.00	1.00	2.32	0.24	
			N548413	171.00	172.00	1.00	5.97	0.43	
			N548414	172.00	173.00	1.00	5.54	0.69	
			N548416	173.00	174.00	1.00	7.14	0.71	
			N548417	174.00	174.80	0.80	6.16	0.51	
			N548418	174.80	175.60	0.80	3.48	0.31	
			N548419	175.60	176.48	0.88	2	0.35	
			N548420	176.48	177.30	0.82	0.07	0.18	
			N548421	177.30	178.23	0.93	0.17	0.3	
			N548422	178.23	179.20	0.97	4.65	1.08	
			N548423	179.20	180.10	0.90	1.08	0.39	
			N548425	180.10	181.00	0.90	5.15	0.81	
			N548426	181.00	182.00	1.00	3.93	0.37	
			N548427	182.00	183.00	1.00	4.9	0.51	
			N548428	183.00	184.00	1.00	1.07	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548429	184.00	185.00	1.00	5.36	0.5	
			N548430	185.00	186.00	1.00	3.58	0.3	
			N548432	186.00	187.00	1.00	3.03	0.53	
			N548433	187.00	188.00	1.00	4.41	0.92	
			N548434	188.00	188.90	0.90	2.7	0.12	
			N548436	188.90	189.80	0.90	8.53	0.96	
			N548437	189.80	190.60	0.80	5.81	0.35	
			N548438	190.60	191.40	0.80	5.29	0.35	
191.40	194.75	**SYENOP Syenite with Graphitic Overprinting**							
		Medium grey to pinkish-grey, coarse grained, massive syenite. Weak gneissic banding at 40 dca. Very weak graphite overprinting as odd graphite veinlet.	N548439	191.40	192.50	1.10	0.1	0.08	2.65
			N548440	192.50	193.60	1.10	0.06	0.04	2.67
			N548441	193.60	194.75	1.15	0.01	0.07	2.67

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
194.75	215.27	**GRPBX Graphitic Breccia** Medium to dark grey, medium to coarse grained brecciated and fractured syenite. Good graphite as fracture filling veinlets and as flooding in the matrix. Lower contact sharp at 65 dca.	N548442	194.75	195.90	1.15	2.86	0.12	2.67
			N548443	195.90	197.00	1.10	2.41	0.3	2.66
			N548445	197.00	198.00	1.00	2.66	0.24	
			N548446	198.00	199.00	1.00	2.94	0.35	
			N548447	199.00	200.00	1.00	1.97	0.31	
			N548448	200.00	201.00	1.00	2.95	0.48	
			N548449	201.00	202.00	1.00	2.58	0.74	
			N548450	202.00	203.00	1.00	4.78	0.55	
			N548452	203.00	204.00	1.00	1.83	0.57	
			N548453	204.00	205.00	1.00	5.21	0.58	
			N548454	205.00	206.00	1.00	3.89	0.64	
			N548456	206.00	207.00	1.00	3.34	0.29	
			N548457	207.00	208.00	1.00	6.02	0.23	
			N548458	208.00	209.00	1.00	1.47	0.28	
			N548459	209.00	210.00	1.00	1.72	0.38	
			N548460	210.00	211.00	1.00	2.89	0.52	
			N548461	211.00	212.00	1.00	4.55	0.36	
			N548462	212.00	213.00	1.00	0.66	0.11	
			N548463	213.00	214.10	1.10	2.01	0.19	
			N548465	214.10	215.27	1.17	7.46	0.19	
215.27	222.20	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey to reddish-grey, massive medium grained syenite. Weak to locally moderate graphite overprinting as fracture filling graphite veinlets from 218.5 to 220.5. Lower contact sharp at 60 dca.	N548466	215.27	216.20	0.93	0.99	0.19	
			N548467	216.20	217.20	1.00	0.47	0.08	
			N548468	217.20	218.20	1.00	0.1	0.08	
			N548469	218.20	219.20	1.00	1.36	0.26	
			N548470	219.20	220.20	1.00	0.84	0.17	
			N548472	220.20	221.20	1.00	1.59	0.22	
			N548473	221.20	222.20	1.00	0.23	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.20	231.35	**GRPBX Graphitic Breccia** Brecciated syenite, coarse grained syenite fragments in graphite flooded matrix. Graphite veins at 230.7m. Lower contact sharp at 55 dca.	N548474	222.20	223.10	0.90	5.7	0.32	
			N548476	223.10	224.00	0.90	6.5	0.41	
			N548477	224.00	225.00	1.00	4.68	0.43	
			N548478	225.00	226.00	1.00	6	0.53	
			N548479	226.00	227.00	1.00	0.09	0.12	
			N548480	227.00	228.00	1.00	4.45	0.28	
			N548481	228.00	228.85	0.85	2.69	0.19	
			N548482	228.85	229.68	0.83	2.87	0.28	
			N548483	229.68	230.68	1.00	0.05	0.09	
			N548485	230.68	231.35	0.67	5.18	0.53	
231.35	233.78	**SYENOP Syenite with Graphitic Overprinting** Reddish-grey, massive coarse locally pegmatitic syenite. Very weak graphite overprinting as odd fracture filling graphite veinlet. Lower contact sharp at 70 dca.	N548486	231.35	232.60	1.25	0.36	0.11	
			N548487	232.60	233.78	1.18	0.27	0.15	
233.78	240.35	**IDP Intermediate Dike (Porphyritic)** Medium to dark grey with a pink hue porphyritic dyke. Light pink subhedral to subangular feldspar phenocrysts 2-8mm and subrounded dark green amphibole phenos 1-4mm. Not conductive. Lower contact brecciated.	N548488	233.78	235.00	1.22	0.12	0.11	
			N548489	235.00	236.00	1.00	0.06	0.08	
			N548490	236.00	237.00	1.00	0.04	0.07	
			N548492	237.00	238.00	1.00	0.07	0.08	
			N548493	238.00	239.00	1.00	0.07	0.08	
			N548494	239.00	240.33	1.33	0.02	0.13	
			N548496	240.33	241.15	0.82	2.19	0.43	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
240.35 -	245.32	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium to coarse grained massive syenite. Moderate graphite overprinting a s fracture filling graphite veinlets. Lower contact sharp at 65 dca.	N548497	241.15	242.00	0.85	1.18	0.56	
			N548498	242.00	243.00	1.00	1.09	0.42	
			N548499	243.00	244.15	1.15	2.53	0.12	
			N548500	244.15	245.32	1.17	1.22	0.22	
245.32 -	250.70	**GRPBX Graphitic Breccia** Mix of graphitic breccia sections and overprinted syenite. Up to 30% graphitic breccia as 0.3 to 1m long sections with good graphite in the matrix. Syenite sections are massive light grey, with very weak graphite overprinting. Lower contact sharp at 45 dca.	N548501	245.32	246.20	0.88	3.96	0.33	
			N548502	246.20	247.10	0.90	3.51	0.28	
			N548503	247.10	248.00	0.90	0.27	0.17	
			N548505	248.00	249.00	1.00	0.81	0.1	
			N548506	249.00	249.90	0.90	2.27	0.07	
			N548507	249.90	250.70	0.80	5.43	0.35	
250.70 -	252.83	**SYEN Syenite** Light grey to pinkish grey, massive syenite. No visible graphite.	N548508	250.70	251.70	1.00	0.1	0.06	
			N548509	251.70	252.83	1.13	0.1	0.06	
252.83 -	255.83	**GRPBX Graphitic Breccia** Dark grey to pinkish-grey brecciated syenite. Moderate to good graphite in the matrix and as odd massive graphite bleb. Trace pyrite. Lower contact sharp at 90 dca.	N548510	252.83	253.83	1.00	6.76	0.54	
			N548512	253.83	254.83	1.00	2.65	0.34	
			N548513	254.83	255.83	1.00	2.13	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
255.83 -	261.00	**SYENOP Syenite with Graphitic Overprinting** Light grey to pinkish-grey, medium grained, massive syenite. Very weak graphite overprinting as odd fracture filling graphite veinlet.	N548514	255.83	257.00	1.17	0.13	0.06	
			N548516	257.00	258.00	1.00	0.07	0.11	
			N548517	258.00	259.00	1.00	0.09	0.16	
			N548518	259.00	260.00	1.00	0.08	0.15	
			N548519	260.00	261.00	1.00	0.1	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
261.00 -	288.78	**FBX Felsic Breccia** Light grey to pinkish -grey brecciated syenite. Not conductive. Sub-angular fragments of syenite, biotite rich mafic dykes, >10cm in size and/ or granodiorite. Some light grey, coarse grained granodiorite (?) fragments with interstitial fine grained biotite are up to 40cm in size. Lower contact sharp at 75 dca.	N548520	261.00	262.00	1.00	0.07	0.24	
			N548521	262.00	263.00	1.00	0.05	0.22	
			N548522	263.00	264.00	1.00	0.05	0.04	
			N548523	264.00	265.00	1.00	0.11	0.1	
			N548525	265.00	266.00	1.00	0.04	0.21	
			N548526	266.00	267.00	1.00	0.07	0.23	
			N548527	267.00	268.00	1.00	0.11	0.18	
			N548528	268.00	269.00	1.00	0.09	0.1	
			N548529	269.00	270.00	1.00	0.06	0.13	
			N548530	270.00	271.00	1.00	0.1	0.26	
			N548532	271.00	272.00	1.00	0.07	0.27	
			N548533	272.00	273.00	1.00	0.11	0.15	
			N548534	273.00	274.00	1.00	0.09	0.24	
			N548536	274.00	275.00	1.00	0.06	0.07	
			N548537	275.00	276.00	1.00	0.07	0.13	
			N548538	276.00	277.23	1.23	0.04	0.19	
			N548539	277.23	278.10	0.87	0.07	0.22	
			N548540	278.10	279.00	0.90	0.27	0.32	
			N548541	279.00	280.00	1.00	0.14	0.27	
			N548542	280.00	281.00	1.00	0.13	0.16	
			N548543	281.00	282.00	1.00	0.08	0.18	
			N548545	282.00	283.00	1.00	0.1	0.18	
			N548546	283.00	284.00	1.00	0.17	0.14	
			N548547	284.00	285.00	1.00	0.1	0.2	
			N548548	285.00	286.00	1.00	0.12	0.14	
			N548549	286.00	287.00	1.00	0.08	0.22	
			N548550	287.00	287.90	0.90	0.06	0.13	
			N548552	287.90	288.78	0.88	0.04	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
288.78	297.20	**ID Intermediate Dyke** Medium grey, fine gained, massive intermediate dyke. Fine grained, chilled margin at the contacts. Slightly coarser grained with a light pink hue at the centre. The finer grained section contained fractures heal by coarser grained gabbroic injections 1-2cm thick. Lower contact sharp at 70 dca.	N548553	288.78	289.90	1.12	0.02	0.04	
			N548554	289.90	291.00	1.10	0.02	0.03	
			N548556	291.00	292.00	1.00	0.01	0.06	
			N548557	292.00	293.00	1.00	0.01	0.3	
			N548558	293.00	294.00	1.00	0.01	0.48	
			N548559	294.00	295.00	1.00	0.02	0.03	
			N548560	295.00	296.10	1.10	0.01	0.03	
			N548561	296.10	297.20	1.10	0.02	0.06	
297.20	304.90	**GRPBX Graphitic Breccia** Brecciated syenite. Dark grey angular syenite fragments in graphite flooded matrix. Good graphite content. Syenite fragments range from <1cm to 20cm.	N548562	297.20	298.10	0.90	5.32	0.31	
			N548563	298.10	299.00	0.90	5.25	0.42	
			N548565	299.00	300.00	1.00	5.06	0.39	
			N548566	300.00	301.00	1.00	3.5	0.41	
			N548567	301.00	302.00	1.00	2.54	0.31	
			N548568	302.00	303.00	1.00	6.32	0.56	
			N548569	303.00	304.00	1.00	2.41	0.35	
			N548570	304.00	304.90	0.90	3.49	2.14	
304.90	308.80	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, medium grained, massive syenite. Weak graphite overprinting as hairline fracture filling graphite veinlets in the upper half of this unit. Lower contact sharp at 45 dca.	N548572	304.90	305.90	1.00	0.46	0.43	
			N548573	305.90	306.90	1.00	0.34	0.24	
			N548574	306.90	307.90	1.00	0.18	0.24	
			N548576	307.90	308.80	0.90	0.13	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
308.80 -	321.90	**SYEN Syenite** Light grey to pinkish-grey, medium grained massive syenite. No visible graphite. Fine grained, medium grey massive intermediate dykes for ~1m at the upper contact. From 315.9 to 317.6m moderate foliation at 60 dca. Lower contact sharp at 40 dca.	N548577	308.80	309.90	1.10	0.02	0.17	
			N548578	309.90	311.00	1.10	0.1	0.22	
			N548579	311.00	312.00	1.00	0.08	0.23	
			N548580	312.00	313.00	1.00	0.06	0.22	
			N548581	313.00	314.00	1.00	0.1	0.23	
			N548582	314.00	315.00	1.00	0.07	0.28	
			N548583	315.00	316.00	1.00	0.05	0.23	
			N548585	316.00	317.00	1.00	0.1	0.07	
			N548586	317.00	318.00	1.00	0.07	0.12	
			N548587	318.00	319.00	1.00	0.04	0.12	
			N548588	319.00	320.00	1.00	0.06	0.08	
			N548589	320.00	321.00	1.00	0.09	0.13	
			N548590	321.00	321.95	0.95	0.05	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
321.90	378.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. EOH 378.0m	N548592	321.95	323.00	1.05	0.02	0.03	
			N548593	323.00	324.00	1.00	0.06	0.01	
			N548594	324.00	325.50	1.50	0.02	0.01	
			N548596	325.50	327.00	1.50	0.09	0.01	
			N548597	327.00	328.50	1.50	0.04	0.01	
			N548598	328.50	330.00	1.50	0.1	0.01	
			N548599	330.00	331.50	1.50	0.05	0.01	
			N548600	331.50	333.00	1.50	0.03	0.01	
			N548601	333.00	334.50	1.50	0.07	0.03	
			N548602	334.50	336.00	1.50	0.05	0.04	
			N548603	336.00	337.50	1.50	0.02	0.03	
			N548605	337.50	339.00	1.50	0.01	0.04	
			N548606	339.00	340.50	1.50	0.01	0.02	
			N548607	340.50	342.00	1.50	0.01	0.05	
			N548608	342.00	343.50	1.50	0.01	0.15	
			N548609	343.50	345.00	1.50	0.01	0.01	
			N548610	345.00	346.50	1.50	0.01	0.02	
			N548612	346.50	348.00	1.50	0.04	0.02	
			N548613	348.00	349.50	1.50	0.01	0.02	
			N548614	349.50	351.00	1.50	0.01	0.02	
			N548616	351.00	352.50	1.50	0.06	0.03	
			N548617	352.50	354.00	1.50	0.05	0.04	
			N548618	354.00	355.50	1.50	0.01	0.09	
			N548619	355.50	357.00	1.50	0.05	0.04	
			N548620	357.00	358.50	1.50	0.01	0.04	
			N548621	358.50	360.00	1.50	0.05	0.03	
			N548622	360.00	361.50	1.50	0.01	0.03	
			N548623	361.50	363.00	1.50	0.01	0.06	
			N548625	363.00	364.50	1.50	0.03	0.02	
			N548626	364.50	366.00	1.50	0.07	0.14	
			N548627	366.00	367.50	1.50	0.01	0.03	
			N548628	367.50	369.00	1.50	0.01	0.02	
			N548629	369.00	370.50	1.50	0.01	0.03	
			N548630	370.50	372.00	1.50	0.01	0.02	
			N548632	372.00	373.50	1.50	0.01	0.01	
			N548633	373.50	375.00	1.50	0.05	0.01	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N548634	375.00	376.50	1.50	0.01	0.02	
		N548636	376.50	378.00	1.50	0.01	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD27 Canada Zone 16		None		Resource hole	237.10	10/09/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545820	682433.5			Reflex APS		12/09/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.20	115.60		-74.50	Chibougamau Diamond Drilling		12/09/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	186.1	Casing Pulled	Casing (1)	51.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Chibougamau Diamond Drilling Ltd	

Purpose	Results	Comments
Test the west boundary of the west pipe from the northwest	This drill hole intersected the west boundary of the graphitic brecccia at 192.55m. It intersected 43.69m of graphitic breccia from 192.55 to 236.24m. The assays from 54.00m to 236.24m averaged 1.24% Cg over 182.24m; within this intersection a higher grade graphite zone from 191.40m to 236.24m averaged 3.07% Cg over 44.84m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
54.00			120.9	111.9	-74.5	-74.5	☑	Reflex EZ	57085	
57.00			124	115	-74.7	-74.7	☑	Reflex EZ	56301	
63.00			122.3	113.3	-74.7	-74.7	☑	Reflex EZ	56206	
66.00			122.6	113.6	-75	-75	☑	Reflex EZ	56190	
69.00			122.4	113.4	-74.5	-74.5	☑	Reflex EZ	56198	
72.00			122.8	113.8	-74.8	-74.8	☑	Reflex EZ	56195	
78.00			123.6	114.6	-74.6	-74.6	☑	Reflex EZ	56207	
81.00			124.7	115.7	-74.8	-74.8	☑	Reflex EZ	56222	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			123.6	114.6	-74.6	-74.6	☑	Reflex EZ	56173	
87.00			120.3	111.3	-74.6	-74.6	☑	Reflex EZ	56172	
90.00			122.7	113.7	-74.9	-74.9	☑	Reflex EZ	56179	
93.00			121.5	112.5	-74.4	-74.4	☑	Reflex EZ	56184	
96.00			121.9	112.9	-74.7	-74.7	☑	Reflex EZ	56181	
99.00			123.6	114.6	-74.5	-74.5	☑	Reflex EZ	56239	
102.00			123.8	114.8	-74.6	-74.6	☑	Reflex EZ	56180	
105.00			121.5	112.5	-74.3	-74.3	☑	Reflex EZ	56177	
108.00			121.9	112.9	-74.5	-74.5	☑	Reflex EZ	56188	
111.00			121.6	112.6	-74.2	-74.2	☑	Reflex EZ	56177	
114.00			122.7	113.7	-74.4	-74.4	☑	Reflex EZ	56199	
117.00			123.5	114.5	-74.4	-74.4	☑	Reflex EZ	56183	
120.00			123.4	114.4	-74.4	-74.4	☑	Reflex EZ	56192	
123.00			123	114	-74.5	-74.5	☑	Reflex EZ	56169	
126.00			121.3	112.3	-74.4	-74.4	☑	Reflex EZ	56149	
129.00			123	114	-74.4	-74.4	☑	Reflex EZ	56177	
132.00			121.4	112.4	-74.5	-74.5	☑	Reflex EZ	56168	
135.00			123.2	114.2	-74.6	-74.6	☑	Reflex EZ	56172	
138.00			122.7	113.7	-74.1	-74.1	☑	Reflex EZ	56224	
141.00			123.1	114.1	-74.4	-74.4	☑	Reflex EZ	56150	
144.00			122.3	113.3	-74.6	-74.6	☑	Reflex EZ	56086	
147.00			122.1	113.1	-74.4	-74.4	☑	Reflex EZ	56128	
150.00			122.2	113.2	-74.3	-74.3	☑	Reflex EZ	56181	
153.00			121.4	112.4	-74.4	-74.4	☑	Reflex EZ	56170	
156.00			123.3	114.3	-74.4	-74.4	☑	Reflex EZ	56173	
159.00			123.3	114.3	-74.4	-74.4	☑	Reflex EZ	56178	
162.00			123.2	114.2	-74.4	-74.4	☑	Reflex EZ	56184	
165.00			123.7	114.7	-74.7	-74.7	☑	Reflex EZ	56178	
168.00			121.5	112.5	-74.3	-74.3	☑	Reflex EZ	56161	
171.00			123.5	114.5	-74.4	-74.4	☑	Reflex EZ	56173	
174.00			124.2	115.2	-74.5	-74.5	☑	Reflex EZ	56179	
177.00			123.8	114.8	-74.6	-74.6	☑	Reflex EZ	56181	
180.00			122.1	113.1	-74.5	-74.5	☑	Reflex EZ	56127	
183.00			123	114	-74.3	-74.3	☑	Reflex EZ	56165	
186.00			122.5	113.5	-74.1	-74.1	☑	Reflex EZ	56135	
189.00			123.4	114.4	-74.6	-74.6	☑	Reflex EZ	56113	
192.00			122.1	113.1	-74.3	-74.3	☑	Reflex EZ	56130	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
195.00			122.1	113.1	-74.5	-74.5	☑	Reflex EZ	56122	
198.00			121.7	112.7	-74.3	-74.3	☑	Reflex EZ	56162	
201.00			124.7	115.7	-74.4	-74.4	☑	Reflex EZ	56186	
204.00			122	113	-74.3	-74.3	☑	Reflex EZ	56119	
207.00			122.1	113.1	-74.2	-74.2	☑	Reflex EZ	56092	
210.00			122.7	113.7	-74.1	-74.1	☑	Reflex EZ	56078	
213.00			123.7	114.7	-74.4	-74.4	☑	Reflex EZ	56112	
216.00			123	114	-74.5	-74.5	☑	Reflex EZ	56138	
219.00			124.1	115.1	-74.4	-74.4	☑	Reflex EZ	56142	
222.00			124.3	115.3	-74.4	-74.4	☑	Reflex EZ	56096	
225.00			122.4	113.4	-74.4	-74.4	☑	Reflex EZ	56131	
228.00			121.8	112.8	-74.3	-74.3	☑	Reflex EZ	56200	
231.00			124.2	115.2	-74.5	-74.5	☑	Reflex EZ	56087	
234.00			124	115	-74.4	-74.4	☑	Reflex EZ	56135	
237.00			124.1	115.1	-74.4	-74.4	☑	Reflex EZ	55961	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	- 52.13	**OB Overburden** From 0 to 49m unknown overburden. From 49 to 52.13m mix of boulders of limestone, dark grey pebbles of intrusive rocks and gneisses.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
52.13	157.50	**SYENOP Syenite with Graphitic Overprinting** Reddish-grey to dark grey, medium grained, massive syenite. Weak graphite overprinting as hairline fracture filling graphite veinlets from the top of the hole to 104m. From 104 to 108.5m weak to moderate fracture filling graphite veinlets. From 126.5 to 131.95m moderate graphite overprinting as fracture filling veinlets and minor <5cm brecciated sections. 5cm fault gouge at 127.3m. From 131.95 to 157.5 weak graphite overprinting as sparse hairline fracture filling veinlets.	N548637	52.13	53.10	0.97	0.06	0.02	
			N548638	53.10	54.00	0.90	0.24	0.01	
			N548639	54.00	55.00	1.00	0.5	0.04	
			N548640	55.00	56.00	1.00	1.48	0.06	
			N548641	56.00	57.00	1.00	0.08	0.07	
			N548642	57.00	58.00	1.00	0.07	0.06	
			N548643	58.00	59.00	1.00	0.1	0.12	
			N548645	59.00	60.00	1.00	0.4	0.09	2.61
			N548646	60.00	61.00	1.00	0.03	0.06	2.62
			N548647	61.00	62.00	1.00	0.33	0.05	2.58
			N548648	62.00	63.00	1.00	0.44	0.14	2.64
			N548649	63.00	64.00	1.00	0.3	0.14	2.6
			N548650	64.00	65.00	1.00	0.95	0.09	
			N548652	65.00	66.00	1.00	0.13	0.09	
			N548653	66.00	67.00	1.00	0.53	0.08	
			N548654	67.00	68.00	1.00	0.1	0.12	
			N548656	68.00	69.00	1.00	0.33	0.1	
			N548657	69.00	70.00	1.00	0.25	0.12	
			N548658	70.00	71.00	1.00	0.07	0.07	
			N548659	71.00	72.00	1.00	0.2	0.1	
			N548660	72.00	73.00	1.00	0.69	0.12	
			N548661	73.00	74.00	1.00	0.18	0.1	
			N548662	74.00	75.00	1.00	0.06	0.05	
			N548663	75.00	76.00	1.00	0.24	0.07	
			N548665	76.00	77.00	1.00	0.31	0.08	
			N548666	77.00	78.00	1.00	0.26	0.13	
			N548667	78.00	79.00	1.00	0.52	0.07	
			N548668	79.00	80.00	1.00	0.23	0.09	
			N548669	80.00	81.00	1.00	0.33	0.1	
			N548670	81.00	82.00	1.00	0.1	0.07	
			N548672	82.00	83.00	1.00	0.13	0.06	
			N548673	83.00	84.00	1.00	0.06	0.05	
			N548674	84.00	85.00	1.00	0.36	0.08	
			N548676	85.00	86.00	1.00	0.28	0.05	
			N548677	86.00	87.00	1.00	0.33	0.1	
			N548678	87.00	88.00	1.00	0.11	0.07	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N548679	88.00	89.00	1.00	0.07	0.06	
		N548680	89.00	90.00	1.00	0.09	0.07	
		N548681	90.00	91.00	1.00	0.23	0.11	
		N548682	91.00	92.00	1.00	0.22	0.06	
		N548683	92.00	93.00	1.00	0.1	0.09	
		N548685	93.00	94.00	1.00	0.27	0.18	
		N548686	94.00	95.00	1.00	0.21	0.15	
		N548687	95.00	96.00	1.00	2.57	0.2	
		N548688	96.00	97.00	1.00	3.31	0.32	
		N548689	97.00	98.00	1.00	2.48	0.19	
		N548690	98.00	99.00	1.00	3.42	0.3	
		N548692	99.00	100.00	1.00	0.84	0.15	
		N548693	100.00	101.00	1.00	0.37	0.14	
		N548694	101.00	102.00	1.00	0.15	0.14	
		N548696	102.00	103.00	1.00	0.21	0.13	
		N548697	103.00	104.00	1.00	0.18	0.17	
		N548698	104.00	105.00	1.00	0.31	0.14	
		N548699	105.00	106.00	1.00	0.36	0.2	
		N548700	106.00	107.00	1.00	1.37	0.28	
		N548701	107.00	108.00	1.00	1.64	0.24	
		N548702	108.00	109.00	1.00	1.46	0.32	
		N548703	109.00	110.00	1.00	1.25	0.35	
		N548705	110.00	111.00	1.00	0.7	0.54	
		N548706	111.00	112.00	1.00	0.36	0.21	
		N548707	112.00	113.00	1.00	0.17	0.08	
		N548708	113.00	114.00	1.00	0.11	0.15	
		N548709	114.00	115.00	1.00	0.73	0.26	
		N548710	115.00	116.00	1.00	0.11	0.1	
		N548712	116.00	117.00	1.00	0.15	0.2	
		N548713	117.00	118.00	1.00	0.18	0.21	
		N548714	118.00	119.00	1.00	1.45	0.2	
		N548716	119.00	120.00	1.00	0.5	0.27	
		N548717	120.00	121.00	1.00	0.47	0.18	
		N548718	121.00	122.00	1.00	0.15	0.14	
		N548719	122.00	123.00	1.00	0.23	0.14	
		N548720	123.00	123.90	0.90	0.15	0.17	
		N548721	123.90	124.80	0.90	0.17	0.13	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N548722	124.80	125.70	0.90	0.91	0.25	
		N548723	125.70	126.50	0.80	1.31	0.19	
		N548725	126.50	127.40	0.90	7.75	0.24	2.61
		N548726	127.40	128.30	0.90	2.93	0.29	2.61
		N548727	128.30	129.20	0.90	2.37	0.35	2.61
		N548728	129.20	130.10	0.90	3.39	0.26	2.58
		N548729	130.10	131.00	0.90	1.5	0.3	2.63
		N548730	131.00	131.95	0.95	1.2	0.16	
		N548732	131.95	133.00	1.05	0.48	0.28	
		N548733	133.00	134.00	1.00	0.63	0.31	
		N548734	134.00	135.00	1.00	1.15	0.18	
		N548736	135.00	136.00	1.00	0.26	0.09	
		N548737	136.00	137.00	1.00	0.65	0.18	
		N548738	137.00	138.00	1.00	0.11	0.15	
		N548739	138.00	139.00	1.00	0.35	0.12	
		N548740	139.00	140.00	1.00	0.58	0.2	
		N548741	140.00	141.00	1.00	0.73	0.19	
		N548742	141.00	142.00	1.00	0.35	0.18	
		N548743	142.00	143.00	1.00	0.21	0.14	
		N548745	143.00	144.00	1.00	0.63	0.21	
		N548746	144.00	145.00	1.00	0.2	0.14	
		N548747	145.00	146.00	1.00	0.05	0.1	
		N548748	146.00	147.00	1.00	0.08	0.1	
		N548749	147.00	148.00	1.00	0.41	0.14	
		N548750	148.00	149.00	1.00	0.24	0.11	
		N548752	149.00	150.00	1.00	0.13	0.14	
		N548753	150.00	151.00	1.00	0.32	0.18	
		N548754	151.00	152.00	1.00	0.19	0.13	
		N548756	152.00	153.00	1.00	0.76	0.19	
		N548757	153.00	153.90	0.90	0.33	0.14	
		N548758	153.90	154.80	0.90	0.22	0.15	
		N548759	154.80	155.70	0.90	0.26	0.1	
		N548760	155.70	156.60	0.90	0.57	0.17	
		N548761	156.60	157.50	0.90	0.88	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
157.50 -	160.60	**MD Mafic Dyke** Dark green chloritic schist. Moderate foliation at 60 dca. Interrupted by 5-10cm massive syenite sections. Upper contact sharp but irregular. Lower contact sharp at 70 dca.	N548762	157.50	158.50	1.00	0.46	0.12	
			N548763	158.50	159.50	1.00	0.46	0.02	
			N548765	159.50	160.60	1.10	0.55	0.07	
160.60 -	182.58	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey to pinkish-grey, massive syenite. Weak graphite overprinting as fracture filling veinlets from 164 to 165 and from 168 to 170.5. 10cm graphite overprinted mafic dyke at 164.4.	N548766	160.60	161.80	1.20	0.5	0.24	
			N548767	161.80	162.90	1.10	0.5	0.25	
			N548768	162.90	164.00	1.10	1.18	0.14	
			N548769	164.00	165.00	1.00	0.95	0.15	
			N548770	165.00	166.00	1.00	1.73	0.29	
			N548772	166.00	167.00	1.00	0.75	0.27	
			N548773	167.00	168.00	1.00	1.06	0.26	
			N548774	168.00	169.00	1.00	0.9	0.1	
			N548776	169.00	170.00	1.00	0.62	0.04	
			N548777	170.00	171.00	1.00	3.3	0.04	
			N548778	171.00	172.00	1.00	1.02	0.14	
			N548779	172.00	173.00	1.00	0.56	0.13	
			N548780	173.00	174.00	1.00	0.45	0.11	
			N548781	174.00	175.00	1.00	0.73	0.1	
			N548782	175.00	176.00	1.00	1.29	0.19	
			N548783	176.00	177.00	1.00	0.82	0.35	
			N548785	177.00	178.00	1.00	0.58	0.28	
			N548786	178.00	179.00	1.00	0.59	0.2	
			N548787	179.00	179.90	0.90	0.1	0.07	
			N548788	179.90	180.80	0.90	0.22	0.3	
			N548789	180.80	181.70	0.90	0.53	0.21	
			N548790	181.70	182.58	0.88	0.06	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.58	191.40	**ID Intermediate Dyke** Medium grey, fine to locally medium grained intermediate dyke. Fine grained massive sections alternate with medium grey, lighter grey massive intervals. Upper contact sharp at 75 dca. Lower contact sharp at 45 dca.	N548792	182.58	183.50	0.92	0.05	0.06	
			N548793	183.50	185.00	1.50	0.1	0.02	
			N548794	185.00	186.50	1.50	0.11	0.06	
			N548796	186.50	188.00	1.50	0.04	0.04	
			N548797	188.00	189.50	1.50	0.04	0.02	
			N548798	189.50	190.50	1.00	0.05	0.03	
			N548799	190.50	191.40	0.90	0.06	0.08	
191.40	192.55	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Weak graphite overprint as fracture filling veinlets. Lower contact sharp at 45 dca.	N548800	191.40	192.55	1.15	1.28	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.55	212.56	**GRPBX Graphitic Breccia** Light to medium grey angular syenite fragments (,1 to 15cm) in fine grained black matrix. Not very conductive from upper contact to 202m mainly felsic breccia. From 198.2 to 199.9m mainly massive syenite with fracture filling graphite overprinting. Moderate to good graphite in the matrix from 202 to 212.56.	N548801	192.55	193.40	0.85	4.3	0.42	
			N548802	193.40	194.30	0.90	6.68	0.41	
			N548803	194.30	195.20	0.90	5.31	0.2	
			N548805	195.20	196.10	0.90	5.22	0.23	
			N548806	196.10	197.00	0.90	4.91	0.3	2.62
			N548807	197.00	198.00	1.00	6.47	0.32	2.64
			N548808	198.00	199.00	1.00	1.65	0.15	2.67
			N548809	199.00	200.00	1.00	1.45	0.2	2.61
			N548810	200.00	201.00	1.00	3.73	0.25	2.62
			N548812	201.00	202.00	1.00	3.84	0.33	
			N548813	202.00	203.00	1.00	4.1	0.26	
			N548814	203.00	204.00	1.00	3.31	0.16	
			N548816	204.00	205.00	1.00	3.42	0.16	
			N548817	205.00	206.00	1.00	3.88	0.14	
			N548818	206.00	207.00	1.00	2.83	0.35	
			N548819	207.00	208.00	1.00	2.74	0.69	
			N548820	208.00	209.00	1.00	4.43	0.47	
			N548821	209.00	210.00	1.00	4.9	0.51	
			N548822	210.00	210.85	0.85	6.15	0.41	
			N548823	210.85	211.70	0.85	3.94	0.17	
			N548825	211.70	212.56	0.86	4.75	0.44	
212.56	215.25	**SYENOP Syenite with Graphitic Overprinting** Light grey, medium grained, massive syenite. Very weak graphite overprinting as odd graphite veinlet at 215. Upper contact sharp at 85 dca. Lower contact sharp at 40 dca.	N548826	212.56	213.90	1.34	0.15	0.13	
			N548827	213.90	215.25	1.35	0.29	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
215.25	218.93	**GRPBX Graphitic Breccia** Dark grey angular syenite fragments in dark grey to black, graphite flooded matrix. Lower contact sharp at 70 dca.	N548828	215.25	216.20	0.95	4.5	0.37	
			N548829	216.20	217.10	0.90	3.2	0.4	
			N548830	217.10	218.00	0.90	3.61	0.37	
			N548832	218.00	218.93	0.93	3.1	0.29	
218.93	220.96	**ID Intermediate Dyke** Medium grained, fine grained, massive intermediate dyke. Slightly coarser grained at the centre with a pink tinge. Lower contact sharp at 75 dca. No visible graphite.	N548833	218.93	219.95	1.02	0.03	0.53	
			N548834	219.95	220.96	1.01	0.01	0.21	
220.96	236.24	**GRPBX Graphitic Breccia** Medium grey, brecciated syenite. Angular fragments range in size from <1 to 30cm in dark grey, graphite flooded matrix. Moderate to good graphite. Lower contact sharp at 55 dca.	N548836	220.96	222.00	1.04	3.58	0.28	
			N548837	222.00	223.00	1.00	3.89	0.51	
			N548838	223.00	224.00	1.00	4.3	0.34	
			N548839	224.00	225.00	1.00	3.37	0.48	
			N548840	225.00	226.00	1.00	1.81	0.4	
			N548841	226.00	227.00	1.00	1.48	0.42	
			N548842	227.00	228.00	1.00	3.7	0.34	
			N548843	228.00	229.00	1.00	1.84	0.41	
			N548845	229.00	230.00	1.00	2.92	0.65	
			N548846	230.00	231.00	1.00	1.81	0.4	
			N548847	231.00	232.00	1.00	2.08	0.59	
			N548848	232.00	233.00	1.00	0.64	0.37	
			N548849	233.00	234.00	1.00	1.95	0.33	
			N548850	234.00	235.10	1.10	3.41	0.49	
			N548852	235.10	236.24	1.14	1.67	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
236.24	237.10	**SYENSL Syenite Sill (unmineralized)** Light grey with a weak greenish tinge, medium grained, massive, "gabbroic texture". EOH 237.1m	N548853	236.24	237.10	0.86	0.06	0.05	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD27 Canada Zone 16	None	Resource hole	231.00	12/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545613.6	683020.7			Reflex APS	14/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	125.00	331.20		-48.60	Chibougamau Diamond Drilling	14/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	171	*Casing Pulled*	*Casing (1)*	60.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test the southern contact of the East Pipe near surface.	This hole intersected well mineralized graphitic breccia from the end of casing at 61.00m to 224.28m with few, well mineralized syenite overprinted sections. From 61.00m to 231.00m, the assays averaged 6.99% Cg over 170.00m; within this intersection a higher grade graphite zone from 61.00m to 178.00m averaged 7.44% Cg over 117.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
69.00			338.6	329.6	-48.7	-48.7	☑	Reflex EZ	56447	
72.00			338.4	329.4	-48.8	-48.8	☑	Reflex EZ	56292	
75.00			338.4	329.4	-48.9	-48.9	☑	Reflex EZ	56235	
78.00			338.4	329.4	-48.9	-48.9	☑	Reflex EZ	56188	
81.00			338.4	329.4	-48.9	-48.9	☑	Reflex EZ	56179	
84.00			338.4	329.4	-48.9	-48.9	☑	Reflex EZ	56187	
87.00			338.4	329.4	-49	-49	☑	Reflex EZ	56166	
90.00			338.3	329.3	-49	-49	☑	Reflex EZ	56185	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
93.00			337.9	328.9	-49.1	-49.1	☑	Reflex EZ	56202	
96.00			338.3	329.3	-49.2	-49.2	☑	Reflex EZ	56153	
99.00			338.3	329.3	-49.2	-49.2	☑	Reflex EZ	56180	
102.00			338.3	329.3	-49.2	-49.2	☑	Reflex EZ	56175	
105.00			338.2	329.2	-49.3	-49.3	☑	Reflex EZ	56151	
108.00			338.2	329.2	-49.4	-49.4	☑	Reflex EZ	56145	
111.00			338.5	329.5	-49.3	-49.3	☑	Reflex EZ	56165	
114.00			338.5	329.5	-49.3	-49.3	☑	Reflex EZ	56160	
117.00			338.5	329.5	-49.4	-49.4	☑	Reflex EZ	56175	
120.00			338	329	-49.6	-49.6	☑	Reflex EZ	56135	
123.00			338.2	329.2	-49.6	-49.6	☑	Reflex EZ	56157	
126.00			338.2	329.2	-49.5	-49.5	☑	Reflex EZ	56141	
129.00			338.1	329.1	-49.5	-49.5	☑	Reflex EZ	56152	
132.00			338.4	329.4	-49.6	-49.6	☑	Reflex EZ	56171	
135.00			338.4	329.4	-49.6	-49.6	☑	Reflex EZ	56151	
138.00			337.7	328.7	-50.2	-50.2	☑	Reflex EZ	56182	
141.00			339.1	330.1	-49.5	-49.5	☑	Reflex EZ	56188	
144.00			338.8	329.8	-49.7	-49.7	☑	Reflex EZ	56192	
147.00			338.7	329.7	-49.8	-49.8	☑	Reflex EZ	56204	
150.00			338.8	329.8	-49.8	-49.8	☑	Reflex EZ	56199	
153.00			338.5	329.5	-49.9	-49.9	☑	Reflex EZ	56140	
156.00			338.8	329.8	-49.9	-49.9	☑	Reflex EZ	56157	
159.00			338.8	329.8	-49.9	-49.9	☑	Reflex EZ	56150	
162.00			338.9	329.9	-49.9	-49.9	☑	Reflex EZ	56153	
165.00			339.2	330.2	-50	-50	☑	Reflex EZ	56393	
168.00			338.9	329.9	-50	-50	☑	Reflex EZ	56164	
171.00			338.9	329.9	-50.1	-50.1	☑	Reflex EZ	56177	
174.00			338.9	329.9	-50.1	-50.1	☑	Reflex EZ	56183	
177.00			339	330	-50	-50	☑	Reflex EZ	56183	
180.00			339	330	-50	-50	☑	Reflex EZ	56189	
183.00			339.1	330.1	-50	-50	☑	Reflex EZ	56162	
186.00			339.1	330.1	-50	-50	☑	Reflex EZ	56174	
189.00			337.2	328.2	-50.8	-50.8	☑	Reflex EZ	56169	
192.00			339.6	330.6	-49.8	-49.8	☑	Reflex EZ	56021	
195.00			339.2	330.2	-49.8	-49.8	☑	Reflex EZ	55889	
198.00			339.6	330.6	-49.8	-49.8	☑	Reflex EZ	56164	
201.00			339.6	330.6	-49.8	-49.8	☑	Reflex EZ	56209	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			339.2	330.2	-49.9	-49.9	☑	Reflex EZ	56180	
207.00			339.3	330.3	-49.9	-49.9	☑	Reflex EZ	56190	
210.00			339.7	330.7	-49.8	-49.8	☑	Reflex EZ	56159	
213.00			339.7	330.7	-49.8	-49.8	☑	Reflex EZ	56173	
216.00			339.9	330.9	-49.8	-49.8	☑	Reflex EZ	56216	
219.00			339.7	330.7	-49.9	-49.9	☑	Reflex EZ	56185	
222.00			339.6	330.6	-49.9	-49.9	☑	Reflex EZ	56203	
225.00			339.5	330.5	-49.9	-49.9	☑	Reflex EZ	56194	
228.00			339.9	330.9	-49.8	-49.8	☑	Reflex EZ	56209	
231.00			340	331	-49.8	-49.8	☑	Reflex EZ	56212	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	59.50	**OB Overburden** From 0 to 57.1 unknown overburden. From 57.1 to 59.5 mixture of boulder sized fragments of limestone, syenite, subrounded pebbles of dark grey intrusives.							
59.50	61.00	**SED Sediment** Beige to tan massive vuggy limestone.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
61.00	- 88.76	**GRPBX Graphitic Breccia** Brecciated syenite. Black matrix from the top to 72m; paleo-weathered section, non or very weakly conductive with moderate fracture filling carbonate veinlets. The rock is moderately friable. From 72 to 88.76m graphitic breccia as brecciated and fractured reddish-brown syenite. Good graphite mainly as fracture filling veinlets and as matrix flooding.	N548854	61.00	62.00	1.00	8.88	0.38	
			N548856	62.00	63.00	1.00	7.06	0.19	
			N548857	63.00	64.00	1.00	8.4	0.31	
			N548858	64.00	65.00	1.00	10.3	0.16	
			N548859	65.00	66.00	1.00	10.8	0.11	
			N548860	66.00	67.00	1.00	10.6	0.14	
			N548861	67.00	68.00	1.00	9.9	0.21	
			N548862	68.00	69.00	1.00	6.13	0.3	
			N548863	69.00	70.00	1.00	9.17	0.08	
			N548865	70.00	71.00	1.00	7.32	0.19	
			N548866	71.00	72.00	1.00	8.58	0.11	
			N548867	72.00	73.00	1.00	8.09	0.15	
			N548868	73.00	74.00	1.00	1.71	0.31	
			N548869	74.00	75.00	1.00	8.18	0.04	
			N548870	75.00	76.00	1.00	3.79	0.05	
			N548872	76.00	77.00	1.00	10.1	0.03	
			N548873	77.00	78.00	1.00	9.68	0.02	
			N548874	78.00	79.00	1.00	8.54	0.03	
			N548876	79.00	80.00	1.00	9.49	0.02	
			N548877	80.00	81.00	1.00	8.19	0.02	
			N548878	81.00	82.00	1.00	8.53	0.02	
			N548879	82.00	83.00	1.00	7.17	0.02	
			N548880	83.00	84.00	1.00	11.2	0.02	
			N548881	84.00	85.00	1.00	9.83	0.02	
			N548882	85.00	86.00	1.00	9.24	0.02	
			N548883	86.00	87.00	1.00	10.9	0.03	
			N548885	87.00	87.90	0.90	10.8	0.02	
			N548886	87.90	88.76	0.86	4.38	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
88.76	91.25	**FD Felsic Dyke** Light grey to greenish-grey with a reddish tan. Fine grained massive felsic dyke. Hard. Weak foliation at 70 dca. No visible graphite. Upper contact sharp at 85 dca. Lower contact sharp at 75 dca.	N548887	88.76	90.00	1.24	0.05	0.03	
			N548888	90.00	91.25	1.25	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
91.25	- 130.00	**GRPBX Graphitic Breccia** Dark grey to reddish grey, medium grained, brecciated syenite. Good to locally very good graphite as matrix flooding and fracture filling veinlets. Mainly fracture filling graphite and less fragmental breccia.	N548889	91.25	92.10	0.85	8.22	0.05	
			N548890	92.10	93.00	0.90	4.89	0.08	
			N548892	93.00	94.00	1.00	5.6	0.18	
			N548893	94.00	95.00	1.00	8	0.08	
			N548894	95.00	96.00	1.00	6.45	0.07	
			N548896	96.00	97.00	1.00	5.03	0.05	
			N548897	97.00	98.00	1.00	4.08	0.12	
			N548898	98.00	99.00	1.00	8.41	0.15	
			N548899	99.00	100.00	1.00	7.31	0.12	
			N548900	100.00	101.00	1.00	3.75	0.12	
			N548901	101.00	102.00	1.00	4.52	0.1	
			N548902	102.00	103.00	1.00	14.05	0.17	
			N548903	103.00	104.00	1.00	5.23	0.18	
			N548905	104.00	105.00	1.00	6.38	0.05	
			N548906	105.00	106.00	1.00	8.24	0.13	
			N548907	106.00	107.00	1.00	5.34	0.09	
			N548908	107.00	108.00	1.00	12.7	0.17	
			N548909	108.00	109.00	1.00	5.32	0.14	
			N548910	109.00	110.00	1.00	6.29	0.18	
			N548912	110.00	111.00	1.00	5.61	0.16	
			N548913	111.00	112.00	1.00	5.21	0.14	
			N548914	112.00	113.00	1.00	2.91	0.17	
			N548916	113.00	114.00	1.00	7.89	0.1	
			N548917	114.00	115.00	1.00	6.96	0.08	
			N548918	115.00	116.00	1.00	8.83	0.16	
			N548919	116.00	117.00	1.00	10.7	0.16	
			N548920	117.00	118.00	1.00	10.9	0.23	
			N548921	118.00	119.00	1.00	5.11	0.18	
			N548922	119.00	120.00	1.00	10.4	0.23	
			N548923	120.00	121.00	1.00	8.58	0.21	
			N548925	121.00	122.00	1.00	7.54	0.16	
			N548926	122.00	123.00	1.00	12	0.25	
			N548927	123.00	124.00	1.00	12.95	0.18	
			N548928	124.00	125.00	1.00	9.69	0.18	
			N548929	125.00	126.00	1.00	8.56	0.15	
			N548930	126.00	127.00	1.00	10.85	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548932	127.00	128.00	1.00	9.63	0.07	
			N548933	128.00	129.00	1.00	2.65	0.12	
			N548934	129.00	130.00	1.00	6.15	0.13	
130.00	138.00	**SYENOP Syenite with Graphitic Overprinting** Dark grey to brownish-grey, fractured syenite. Similar to the unit above but less fracturing and less graphite. Still good fracture filling graphite veinlets. Locally up to 5cm semi-massive zones from 136 to 136.5m and from 137 to 138m.	N548936	130.00	131.00	1.00	4.48	0.28	
			N548937	131.00	132.00	1.00	3.74	0.25	
			N548938	132.00	133.00	1.00	8.55	0.29	
			N548939	133.00	134.00	1.00	9.69	0.2	
			N548940	134.00	135.00	1.00	2.42	0.23	
			N548941	135.00	136.00	1.00	1.75	0.27	
			N548942	136.00	137.00	1.00	5.89	0.3	
			N548943	137.00	138.00	1.00	7.8	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
138.00	178.00	**GRPBX Graphitic Breccia** Dark grey, to brownish-grey, medium grained syenite. Good to locally very good graphite as fracture filling veinlets and as graphite flooding in the matrix. Still mainly fracture filling with few syenite fragments. Strong fracturing blocky core from 159.5 to 161.3m. Fault gouge from 159.4 to 159.5m. Very good graphite as veinlets and/or up to 5cm veins from 162 to 164.6m and from 167.7 to 175.7m.	N548945	138.00	139.00	1.00	8.72	0.21	
			N548946	139.00	140.00	1.00	9.19	0.12	
			N548947	140.00	141.00	1.00	6.43	0.18	
			N548948	141.00	142.00	1.00	5.91	0.21	
			N548949	142.00	143.00	1.00	4.65	0.3	
			N548950	143.00	144.00	1.00	8.58	0.63	
			N548952	144.00	145.00	1.00	11.25	0.64	
			N548953	145.00	146.00	1.00	10.05	0.21	
			N548954	146.00	147.00	1.00	6.38	0.25	
			N548956	147.00	148.00	1.00	8.03	0.29	
			N548957	148.00	149.00	1.00	8.07	0.41	
			N548958	149.00	150.00	1.00	7.88	0.26	
			N548959	150.00	151.00	1.00	4.49	0.28	
			N548960	151.00	152.00	1.00	6.58	0.26	
			N548961	152.00	153.00	1.00	3.25	0.25	
			N548962	153.00	154.00	1.00	13.95	0.52	
			N548963	154.00	155.00	1.00	9.48	0.21	
			N548965	155.00	156.00	1.00	4.81	0.26	
			N548966	156.00	157.00	1.00	6.98	0.18	
			N548967	157.00	158.00	1.00	6.47	0.21	
			N548968	158.00	159.00	1.00	8.14	0.21	
			N548969	159.00	160.00	1.00	8.69	0.2	
			N548970	160.00	161.00	1.00	8.65	0.2	
			N548972	161.00	162.00	1.00	2.8	0.19	
			N548973	162.00	163.00	1.00	9.22	0.26	
			N548974	163.00	164.00	1.00	4.37	0.25	
			N548976	164.00	165.00	1.00	5.25	0.23	
			N548977	165.00	166.00	1.00	6.38	0.39	
			N548978	166.00	167.00	1.00	6.86	0.32	
			N548979	167.00	168.00	1.00	9.58	0.37	
			N548980	168.00	169.00	1.00	10.5	0.22	
			N548981	169.00	170.00	1.00	11.6	0.28	
			N548982	170.00	171.00	1.00	6.58	0.52	
			N548983	171.00	172.00	1.00	2.23	0.3	
			N548985	172.00	173.00	1.00	7.72	0.24	2.5
			N548986	173.00	174.00	1.00	6.62	0.32	2.58

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N548987	174.00	175.00	1.00	3.36	0.29	2.64
			N548988	175.00	176.00	1.00	10.2	0.3	2.66
			N548989	176.00	177.00	1.00	9.62	0.3	2.52
			N548990	177.00	178.00	1.00	9.84	0.28	
178.00	185.65	**SYENOP Syenite with Graphitic Overprinting** Medium grey to brownish-grey, medium grained, massive syenite. Minor fracture filling graphite veinlets and fine grained graphite in the matrix from 179 to 180m and from 183 to 184m.	N548992	178.00	179.00	1.00	1.17	0.31	
			N548993	179.00	180.00	1.00	0.82	0.28	
			N548994	180.00	181.00	1.00	3	0.24	
			N548996	181.00	182.00	1.00	1.56	0.31	
			N548997	182.00	182.90	0.90	1.09	0.28	
			N548998	182.90	183.80	0.90	1.95	0.37	
			N548999	183.80	184.70	0.90	5.42	0.35	
			N549000	184.70	185.65	0.95	2.99	0.38	
185.65	188.45	**GRPBX Graphitic Breccia** Dark grey fractured syenite. Very good graphite as fracture filling veinlets and graphite flooding in the matrix from 186.5 to 187.5m and from 188 to 188.45m.	N549001	185.65	186.65	1.00	9.36	0.26	
			N549002	186.65	187.55	0.90	8.55	0.27	
			N549003	187.55	188.45	0.90	9.11	0.2	
188.45	190.55	**FD Felsic Dyke** Bright pink to reddish-pink to greenish-grey in the lower half. Fine grained, hard, massive felsic dyke. Strong fracturing from upper contact to 189.5. Upper contact at 35 dca. Lower contact at 70 dca.	N549005	188.45	189.50	1.05	0.11	0.1	
			N549006	189.50	190.55	1.05	0.03	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
190.55	197.00	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, medium grained massive syenite. Good graphite overprinting as fracture filling veinlets and minor graphite flooding from 194.5 to 195m.	N549007	190.55	191.45	0.90	11.3	0.31	
			N549008	191.45	192.30	0.85	10.2	0.33	
			N549009	192.30	193.20	0.90	0.2	0.36	
			N549010	193.20	194.10	0.90	0.29	0.36	
			N549012	194.10	195.00	0.90	4.03	0.3	
			N549013	195.00	196.00	1.00	3.42	0.17	
			N549014	196.00	197.00	1.00	1.04	0.12	
197.00	208.62	**GRPBX Graphitic Breccia** Dark grey, medium to coarse grained fractured syenite. Good to locally very good graphite as matrix flooding and semi-massive veins 5-10cm thick from 197.5 to 199.5m and from 204 to 208.62m. Trace pyrite and few small >10cm green graphite overprinted mafic dykes at 203.4 and 205.8m.	N549016	197.00	198.00	1.00	7.38	0.21	
			N549017	198.00	199.00	1.00	7.99	0.33	
			N549018	199.00	200.00	1.00	6.99	0.31	
			N549019	200.00	201.00	1.00	6.21	0.46	
			N549020	201.00	202.00	1.00	2.13	0.32	
			N549021	202.00	203.00	1.00	9.9	0.28	
			N549022	203.00	204.00	1.00	4.17	0.29	
			N549023	204.00	205.00	1.00	8.26	0.3	
			N549025	205.00	206.00	1.00	6.11	0.28	
			N549026	206.00	206.90	0.90	8.88	0.35	
			N549027	206.90	207.80	0.90	9.89	0.96	
			N549028	207.80	208.62	0.82	15.6	0.96	
208.62	210.90	**SYENOP Syenite with Graphitic Overprinting** Dark grey with a dark purple tinge coarse syenite. Graphite overprinting as fracture filling veinlets from 209 to 209.75m and from 210 to 210.4m.	N549029	208.62	209.75	1.13	6.84	0.36	
			N549030	209.75	210.90	1.15	6.19	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
210.90	222.90	**GRPBX Graphitic Breccia** Medium to dark grey with a purple tinge, coarse syenite. Well mineralized section with fracture filling graphite veins and veinlets throughout.	N549032	210.90	212.00	1.10	10.9	0.4	
			N549033	212.00	213.00	1.00	4	0.3	
			N549034	213.00	214.00	1.00	10.8	0.24	
			N549036	214.00	215.00	1.00	8.24	0.59	2.59
			N549037	215.00	216.00	1.00	1.63	0.34	2.6
			N549038	216.00	217.00	1.00	8.96	0.37	2.53
			N549039	217.00	218.00	1.00	13.1	1.65	2.57
			N549040	218.00	219.00	1.00	11.5	0.31	2.61
			N549041	219.00	220.00	1.00	10.7	0.27	
			N549042	220.00	220.90	0.90	13.6	0.36	
			N549043	220.90	221.50	0.60	2.62	0.1	
			N549045	221.50	222.20	0.70	11.9	0.24	
			N549046	222.20	222.90	0.70	4.89	0.05	
222.90	224.28	**MDOP Mafic Dyke with Graphitic Overprinting** Light green, chlorite, biotite schist. Graphite overprinting as fracture filling veinlets. Very irregular with syenite fragments. Both contacts sharp but irregular.	N549047	222.90	224.28	1.38	0.7	0.04	
224.28	231.00	**SYENOP Syenite with Graphitic Overprinting** Dark grey to dark purple massive , coarse syenite. Graphite overprinting as fracture filling veinlets and odd vein at 228.7m. Strong fracturing, blocky core, angular fragments (<5cm) plus fault gouge from 226 to 227m. EOH 231.0m	N549048	224.28	225.20	0.92	2.72	0.54	
			N549049	225.20	226.00	0.80	4.92	0.17	
			N549050	226.00	227.00	1.00	6.46	0.51	
			N549052	227.00	228.00	1.00	4.31	0.24	
			N549053	228.00	229.00	1.00	6.99	0.76	
			N549054	229.00	230.00	1.00	6.14	0.41	
			N549056	230.00	231.00	1.00	7.42	0.38	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	507.00	12/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545834.4	682605.8			Reflex APS	17/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	125.10	227.80		-49.60	Chibougamau Diamond Drilling	24/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	435	*Casing Pulled*	*Casing (1)*	72.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐			

Purpose	*Results*	*Comments*
To test west pipe from North East	Breccia units are present between 68.07m - 376.8m7 seperated by overprinted syenite,unmineralized syenite sill, porphyritic intermediate and feldspar porphyry dykes and some granodiorite. The assays from 68.07m to 420.82m averaged 2.19% Cg over 352.75m; within this intersection a higher grade graphite zone from 93.28m to 220.00m averaged 3.90% Cg over 126.72m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
81.00			227.5	227.5	-49.8	-49.8	☑	Reflex EZ	56270	
84.00			227.4	227.4	-49.9	-49.9	☑	Reflex EZ	56194	
87.00			226.9	226.9	-50	-50	☑	Reflex EZ	56159	
90.00			227.4	227.4	-49.9	-49.9	☑	Reflex EZ	56181	
96.00			227.3	227.3	-50	-50	☑	Reflex EZ	56147	
99.00			227.2	227.2	-50	-50	☑	Reflex EZ	56148	
102.00			227.5	227.5	-49.9	-49.9	☑	Reflex EZ	56152	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
105.00			227.7	227.7	-50	-50	☑	Reflex EZ	56125	
108.00			227.6	227.6	-50	-50	☑	Reflex EZ	56130	
111.00			227.6	227.6	-50	-50	☑	Reflex EZ	56126	
114.00			227.7	227.7	-49.9	-49.9	☑	Reflex EZ	56120	
117.00			227.9	227.9	-49.9	-49.9	☑	Reflex EZ	56124	
120.00			227.4	227.4	-49.9	-49.9	☑	Reflex EZ	56096	
123.00			227.1	227.1	-49.9	-49.9	☑	Reflex EZ	56077	
126.00			227.5	227.5	-49.9	-49.9	☑	Reflex EZ	56099	
132.00			227.6	227.6	-49.7	-49.7	☑	Reflex EZ	56112	
135.00			227.7	227.7	-49.7	-49.7	☑	Reflex EZ	56110	
138.00			228	228	-49.8	-49.8	☑	Reflex EZ	56128	
141.00			228.1	228.1	-49.8	-49.8	☑	Reflex EZ	56107	
144.00			227.6	227.6	-49.7	-49.7	☑	Reflex EZ	56042	
147.00			227.7	227.7	-49.7	-49.7	☑	Reflex EZ	56094	
150.00			228	228	-49.6	-49.6	☑	Reflex EZ	56038	
153.00			228.1	228.1	-49.6	-49.6	☑	Reflex EZ	56110	
156.00			227.6	227.6	-49.6	-49.6	☑	Reflex EZ	56081	
159.00			227.8	227.8	-49.7	-49.7	☑	Reflex EZ	56009	
162.00			228.2	228.2	-49.6	-49.6	☑	Reflex EZ	56089	
165.00			228	228	-49.5	-49.5	☑	Reflex EZ	56072	
168.00			227.4	227.4	-49.5	-49.5	☑	Reflex EZ	55843	
171.00			227.9	227.9	-49.5	-49.5	☑	Reflex EZ	56056	
174.00			227.9	227.9	-49.5	-49.5	☑	Reflex EZ	56087	
177.00			227.8	227.8	-49.4	-49.4	☑	Reflex EZ	56084	
180.00			227.7	227.7	-49.4	-49.4	☑	Reflex EZ	56129	
183.00			227.9	227.9	-49.3	-49.3	☑	Reflex EZ	56075	
186.00			227.7	227.7	-49.4	-49.4	☑	Reflex EZ	56059	
189.00			227.7	227.7	-49.4	-49.4	☑	Reflex EZ	56079	
192.00			228	228	-49.4	-49.4	☑	Reflex EZ	56042	
195.00			227.7	227.7	-49.4	-49.4	☑	Reflex EZ	56042	
198.00			228.1	228.1	-49.4	-49.4	☑	Reflex EZ	56101	
201.00			228.3	228.3	-49.3	-49.3	☑	Reflex EZ	56107	
204.00			228.1	228.1	-49.4	-49.4	☑	Reflex EZ	56146	
207.00			228.4	228.4	-49.2	-49.2	☑	Reflex EZ	56016	
210.00			228.2	228.2	-49.3	-49.3	☑	Reflex EZ	56107	
213.00			228.1	228.1	-49.3	-49.3	☑	Reflex EZ	56113	
216.00			228.2	228.2	-49.2	-49.2	☑	Reflex EZ	56148	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
219.00			228	228	-49.3	-49.3	☑	Reflex EZ	55989	
222.00			228.1	228.1	-49.2	-49.2	☑	Reflex EZ	56098	
225.00			228.6	228.6	-49.1	-49.1	☑	Reflex EZ	56319	
228.00			228.2	228.2	-49.1	-49.1	☑	Reflex EZ	56103	
231.00			228.4	228.4	-49.1	-49.1	☑	Reflex EZ	56175	
234.00			228.3	228.3	-49.1	-49.1	☑	Reflex EZ	56140	
237.00			228.3	228.3	-49.1	-49.1	☑	Reflex EZ	56080	
240.00			228	228	-49.2	-49.2	☑	Reflex EZ	56247	
243.00			228.1	228.1	-49.1	-49.1	☑	Reflex EZ	56099	
246.00			228.6	228.6	-49.1	-49.1	☑	Reflex EZ	56220	
249.00			228.7	228.7	-49	-49	☑	Reflex EZ	56164	
252.00			228.8	228.8	-49	-49	☑	Reflex EZ	56138	
255.00			228.6	228.6	-48.9	-48.9	☑	Reflex EZ	56188	
258.00			228.5	228.5	-48.9	-48.9	☑	Reflex EZ	56254	
261.00			228.3	228.3	-49	-49	☑	Reflex EZ	56136	
264.00			228.4	228.4	-48.9	-48.9	☑	Reflex EZ	56106	
267.00			228.3	228.3	-49	-49	☑	Reflex EZ	56145	
270.00			228.7	228.7	-49	-49	☑	Reflex EZ	56098	
273.00			228.6	228.6	-49	-49	☑	Reflex EZ	56050	
276.00			229.1	229.1	-49	-49	☑	Reflex EZ	56085	
279.00			228.5	228.5	-49	-49	☑	Reflex EZ	55817	
282.00			228.9	228.9	-49	-49	☑	Reflex EZ	56150	
285.00			229.1	229.1	-49	-49	☑	Reflex EZ	56045	
288.00			228.8	228.8	-49	-49	☑	Reflex EZ	56175	
291.00			229	229	-49	-49	☑	Reflex EZ	56175	
294.00			228.9	228.9	-49	-49	☑	Reflex EZ	56079	
297.00			228.9	228.9	-49	-49	☑	Reflex EZ	56070	
300.00			228.6	228.6	-49.1	-49.1	☑	Reflex EZ	56009	
303.00			229.1	229.1	-49	-49	☑	Reflex EZ	56107	
306.00			228.9	228.9	-49	-49	☑	Reflex EZ	56108	
309.00			228	228	-49	-49	☑	Reflex EZ	56279	
312.00			228.2	228.2	-49.1	-49.1	☑	Reflex EZ	55930	
315.00			228.4	228.4	-49	-49	☑	Reflex EZ	55900	
318.00			228.5	228.5	-49.1	-49.1	☑	Reflex EZ	55937	
321.00			229	229	-49.1	-49.1	☑	Reflex EZ	56022	
324.00			228.5	228.5	-49.2	-49.2	☑	Reflex EZ	56158	
327.00			229.3	229.3	-49.1	-49.1	☑	Reflex EZ	55931	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
330.00			229.1	229.1	-49.3	-49.3	☑	Reflex EZ	56169	
333.00			228.9	228.9	-49.1	-49.1	☑	Reflex EZ	55883	
336.00			228.8	228.8	-48.7	-48.7	☑	Reflex EZ	55927	
339.00			227.7	227.7	-49.1	-49.1	☑	Reflex EZ	55969	
342.00			228.5	228.5	-49.1	-49.1	☑	Reflex EZ	56073	
345.00			228.7	228.7	-49.1	-49.1	☑	Reflex EZ	56083	
348.00			228.7	228.7	-49.2	-49.2	☑	Reflex EZ	56091	
351.00			228.8	228.8	-49.1	-49.1	☑	Reflex EZ	56483	
354.00			229	229	-49	-49	☑	Reflex EZ	56069	
357.00			228.8	228.8	-49.1	-49.1	☑	Reflex EZ	56086	
360.00			228.8	228.8	-49.1	-49.1	☑	Reflex EZ	56100	
363.00			228.5	228.5	-49.1	-49.1	☑	Reflex EZ	55994	
366.00			228.6	228.6	-49.1	-49.1	☑	Reflex EZ	56113	
369.00			229.1	229.1	-49	-49	☑	Reflex EZ	55919	
372.00			228.8	228.8	-49	-49	☑	Reflex EZ	56036	
375.00			228.8	228.8	-49.2	-49.2	☑	Reflex EZ	56055	
378.00			229.5	229.5	-49.3	-49.3	☑	Reflex EZ	56026	
381.00			229.7	229.7	-49.3	-49.3	☑	Reflex EZ	56081	
384.00			229.8	229.8	-49.4	-49.4	☑	Reflex EZ	55906	
387.00			228.9	228.9	-49.4	-49.4	☑	Reflex EZ	55856	
390.00			229.2	229.2	-49.4	-49.4	☑	Reflex EZ	55820	
393.00			229.9	229.9	-49.5	-49.5	☑	Reflex EZ	55982	
396.00			229.4	229.4	-49.4	-49.4	☑	Reflex EZ	55893	
399.00			229.3	229.3	-49.4	-49.4	☑	Reflex EZ	55912	
402.00			230	230	-49.2	-49.2	☑	Reflex EZ	56028	
405.00			229.6	229.6	-49.2	-49.2	☑	Reflex EZ	56191	
408.00			229.9	229.9	-49.2	-49.2	☑	Reflex EZ	56083	
411.00			229.5	229.5	-49.2	-49.2	☑	Reflex EZ	55971	
414.00			229.7	229.7	-49.2	-49.2	☑	Reflex EZ	55356	
417.00			229.2	229.2	-49.2	-49.2	☑	Reflex EZ	56121	
420.00			229.3	229.3	-49.1	-49.1	☑	Reflex EZ	56149	
423.00			228.9	228.9	-49.1	-49.1	☑	Reflex EZ	56004	
426.00			228.8	228.8	-49.1	-49.1	☑	Reflex EZ	55826	
429.00			229.6	229.6	-49	-49	☑	Reflex EZ	55823	
432.00			229.5	229.5	-48.9	-48.9	☑	Reflex EZ	56293	
438.00			230.6	230.6	-48.9	-48.9	☑	Reflex EZ	56036	
441.00			229.9	229.9	-48.9	-48.9	☑	Reflex EZ	55887	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
444.00			229.7	229.7	-48.8	-48.8	☑	Reflex EZ	55855	
447.00			229.1	229.1	-48.8	-48.8	☑	Reflex EZ	56108	
450.00			229	229	-48.8	-48.8	☑	Reflex EZ	55957	
453.00			228.9	228.9	-48.8	-48.8	☑	Reflex EZ	56057	
456.00			229.2	229.2	-48.9	-48.9	☑	Reflex EZ	56096	
459.00			229	229	-48.7	-48.7	☑	Reflex EZ	56169	
462.00			229.2	229.2	-48.5	-48.5	☑	Reflex EZ	56118	
465.00			228.6	228.6	-48.6	-48.6	☑	Reflex EZ	55889	
468.00			228.2	228.2	-48.5	-48.5	☑	Reflex EZ	55591	
471.00			228.8	228.8	-48.5	-48.5	☑	Reflex EZ	55920	
474.00			229.2	229.2	-48.4	-48.4	☑	Reflex EZ	56056	
477.00			229.9	229.9	-48.4	-48.4	☑	Reflex EZ	56041	
480.00			228.9	228.9	-48.5	-48.5	☑	Reflex EZ	56105	
483.00			229.3	229.3	-48.3	-48.3	☑	Reflex EZ	56153	
486.00			229.7	229.7	-48.3	-48.3	☑	Reflex EZ	56160	
489.00			229.1	229.1	-48.2	-48.2	☑	Reflex EZ	56164	
492.00			229.2	229.2	-48.2	-48.2	☑	Reflex EZ	56158	
495.00			229.5	229.5	-48	-48	☑	Reflex EZ	56133	
498.00			229.1	229.1	-47.8	-47.8	☑	Reflex EZ	56063	
501.00			229.3	229.3	-47.7	-47.7	☑	Reflex EZ	55945	
504.00			229.4	229.4	-47.5	-47.5	☑	Reflex EZ	56165	
507.00			229.7	229.7	-47.4	-47.4	☑	Reflex EZ	56179	
510.00			229.4	229.4	-47.3	-47.3	☑	Reflex EZ	56146	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	61.00	**OB Overburden**							
61.00	68.07	**SED Sediment** Broken blocky limestone	Q156213	67.00	68.07	1.07	0.06	0.54	
68.07	85.98	**GRPBX Graphitic Breccia** Dark grey to black with orange and pink tinged fragments. Unit is very strongly weathered. Local fracturing and faulting throughout. 68.90 to 72.00 Gouge paste very soft rock and very black. Lower contact irregular at 37 dca.	Q156214	68.07	69.00	0.93	1.06	1.09	
			Q156216	69.00	70.00	1.00	1.08	0.11	
			Q156217	70.00	71.00	1.00	2.31	0.07	
			Q156218	71.00	72.00	1.00	2.27	0.06	
			Q156219	72.00	73.00	1.00	1.31	0.04	
			Q156220	73.00	74.00	1.00	1.11	0.06	
			Q156221	74.00	75.00	1.00	1.9	0.06	
			Q156222	75.00	76.00	1.00	2.44	0.08	
			Q156223	76.00	77.00	1.00	2.97	0.1	
			Q156225	77.00	78.00	1.00	5.41	0.05	
			Q156226	78.00	79.00	1.00	4	0.1	
			Q156227	79.00	80.00	1.00	2.84	0.07	
			Q156228	80.00	81.00	1.00	2.31	0.06	
			Q156229	81.00	82.00	1.00	3.36	0.14	
			Q156230	82.00	83.00	1.00	3.76	0.11	
			Q156231	82.00	83.00	1.00	3.89	0.1	
			Q156232	83.00	84.00	1.00	3.82	0.04	
			Q156233	84.00	85.00	1.00	3.49	0.03	
			Q156234	85.00	85.98	0.98	3.76	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.98	88.90	**SYENOP Syenite with Graphitic Overprinting** Pink with dark grey and black graphite fracture filling. Pink is due to strong weathering. Lower contact sharp at 15 dca.	Q156236	85.98	87.00	1.02	0.7	0.01	
			Q156237	87.00	88.00	1.00	0.19	0.03	
			Q156238	88.00	88.90	0.90	0.08	0.02	
88.90	93.28	**IDP Intermediate Dike (Porphyritic)** Dark green with light green to white, 1-5mm phenocrysts. Massive and hard. Definitely a dyke. Lower contact sharp at 15 dca.	Q156239	88.90	90.00	1.10	0.05	0.01	2.92
			Q156240	90.00	91.00	1.00	0.04	0.01	2.78
			Q156241	91.00	92.00	1.00	0.02	0.01	2.73
			Q156242	92.00	93.28	1.28	0.18	0.01	2.77
93.28	97.87	**GRPBX Graphitic Breccia** As previous breccia unit but slightly less weathered. Lower contact at 41 dca.	Q156243	93.28	94.00	0.72	5.94	0.005	
			Q156245	94.00	95.00	1.00	0.59	0.05	
			Q156246	95.00	96.00	1.00	5.71	0.05	
			Q156247	96.00	97.00	1.00	4.55	0.04	
			Q156248	97.00	97.87	0.87	4.43	0.04	
97.87	99.00	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Lower contact at 90 dca.	Q156249	97.87	99.00	1.13	0.34	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
99.00	110.70	**GRPBX Graphitic Breccia** As previous breccia. Unit has several fractures filled with malachite. 99.27 to 99.58 Chlorite biotite alteration at 45 dca. 102.56 1cm gossan fault at 35 dca. 104.40 1cm fault at 33 dca. 104.90 to 105.05 Dark green malachite fault gouge. Lower contact at 120 dca.	Q156251	99.00	100.00	1.00	6.79	0.03	
			Q156250	99.00	100.00	1.00	6.69	0.03	
			Q156252	100.00	101.00	1.00	3.23	0.08	
			Q156253	101.00	102.00	1.00	6.52	0.07	
			Q156254	102.00	103.00	1.00	6.44	0.04	
			Q156256	103.00	104.00	1.00	2.68	0.04	
			Q156257	104.00	105.00	1.00	6.95	0.06	
			Q156258	105.00	106.00	1.00	6	0.05	
			Q156259	106.00	107.00	1.00	3.66	0.13	
			Q156260	107.00	108.00	1.00	4.49	0.25	
			Q156261	108.00	109.00	1.00	4.93	0.11	
			Q156262	109.00	110.00	1.00	4.85	0.04	
			Q156263	110.00	110.70	0.70	5.11	0.09	
110.70	115.30	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 112.24 to 112.41 Graphite breccia at 63 dca. 113.2o to 113.37 Weathered chlorite biotite malachite dyke at 50 dca. 115.00 to 115.30 Lower contact weathered at 75 dca.	Q156265	110.70	112.00	1.30	0.34	0.2	
			Q156266	112.00	113.00	1.00	1.3	0.16	
			Q156267	113.00	114.00	1.00	0.12	0.17	
			Q156268	114.00	115.30	1.30	0.1	0.09	
115.30	119.13	**GRPBX Graphitic Breccia** Dark grey to black. Unit is becoming more competent breccia with less near surface weathering. But still has some likely glacial rebounding fracturing. Lower contact at 36 dca.	Q156269	115.30	116.00	0.70	7.87	0.03	
			Q156271	116.00	117.00	1.00	5.85	0.1	
			Q156270	116.00	117.00	1.00	6.05	0.11	
			Q156272	117.00	118.00	1.00	6.83	0.1	
			Q156273	118.00	119.13	1.13	5.09	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
119.13 -	120.66	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Unit is very blocky and broken. Lower contact at 43 dca.	Q156274	119.13	120.00	0.87	2.01	0.08	
			Q156276	120.00	120.66	0.66	0.89	0.11	
120.66 -	127.10	**GRPBX Graphitic Breccia** Dark grey to black. More typical graphite breccia in the pipe. Lower contact scalloped at 40 dca.	Q156277	120.66	122.00	1.34	4.71	0.11	
			Q156278	122.00	123.00	1.00	5.51	0.05	
			Q156279	123.00	124.00	1.00	3.28	0.2	
			Q156280	124.00	125.00	1.00	2.41	0.28	
			Q156281	125.00	126.00	1.00	3.8	0.27	
			Q156282	126.00	127.10	1.10	4.48	0.24	
127.10 -	130.26	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Unit is strongly fractured. Broken and blocky. 127.28 to 127.49 Chlorite biotite alteration at 35 dca. Lower contact scalloped at 80 dca.	Q156283	127.10	128.00	0.90	0.27	0.11	
			Q156285	128.00	129.00	1.00	0.16	0.12	
			Q156286	129.00	130.00	1.00	1.04	0.07	
			Q156287	130.00	131.00	1.00	3.57	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
130.26 -	139.58	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 136.65 to 136.75 Fault at 41 dca. 137.35 to 138.99 Porphyritic Intermediate Dyke at 70 dca. Lower contact at 135 dca.	Q156288	131.00	132.00	1.00	6.29	0.18	
			Q156289	132.00	133.00	1.00	2.35	0.3	
			Q156291	133.00	134.00	1.00	8.66	0.43	
			Q156290	133.00	134.00	1.00	8.82	0.41	
			Q156292	134.00	135.00	1.00	7.46	0.41	
			Q156293	135.00	136.00	1.00	2.62	0.59	
			Q156294	136.00	137.35	1.35	2.8	0.27	
			Q156296	137.35	137.99	0.64	0.04	0.23	
			Q156297	137.99	139.00	1.01	5.4	0.37	
			Q156298	139.00	139.58	0.58	2.25	0.91	
139.58 -	141.45	**IDP Intermediate Dike (Porphyritic)** Dark green mafic dyke with very fine grained matrix and 1-3mm light green to white angular phenocrysts? Massive and hard. Lower contact at 150 dca.	Q156299	139.58	140.50	0.92	0.05	0.22	
			Q156300	140.50	141.45	0.95	0.08	0.16	
141.45 -	143.33	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 142.50 to 143.33 Porphyritic Intermediate Dyke, Upper Contact at 105 dca. Lower contact at 130 dca.	Q156301	141.45	142.50	1.05	6.97	0.45	
			Q156302	142.50	143.33	0.83	0.06	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
143.33 -	144.69	**SYEN Syenite** Light grey and green with orange tinge of orthoclase. Massive and very hard. Unit is weakly sheared with stretched fabric. Lower contact at 55 dca.	Q156303	143.33	144.00	0.67	0.74	0.13	
			Q156305	144.00	144.64	0.64	0.21	0.16	
			Q156306	144.64	145.00	0.36	3.47	0.33	
144.69 -	150.24	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 148.98 to 149.70 Overprinted syenite Upper Contact at 55 dca, Lower Contact at 148 dca. Lower contact at 43 dca.	Q156307	145.00	146.00	1.00	3.32	0.33	
			Q156308	146.00	147.00	1.00	5.77	0.68	
			Q156309	147.00	148.00	1.00	4.39	0.6	
			Q156311	148.00	148.98	0.98	7.26	0.43	
			Q156310	148.00	148.98	0.98	7.69	0.46	
			Q156312	148.98	149.70	0.72	0.54	0.54	
			Q156313	149.70	150.24	0.54	5.43	0.28	
150.24 -	152.00	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 150.45 to 150.48 Fault at 16 dca. Lower contact at 162 dca.	Q156314	150.24	151.00	0.76	0.13	0.15	
			Q156316	151.00	152.00	1.00	0.44	0.12	
152.00 -	155.12	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Unit is strongly fractured. Broken and blocky. Lower contact at 79 dca.	Q156317	152.00	153.00	1.00	4.95	0.18	
			Q156318	153.00	153.52	0.52	0.72	0.4	
			Q156319	153.52	154.00	0.48	6.8	0.21	
			Q156320	154.00	155.12	1.12	5.75	0.71	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
155.12 -	157.35	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Unit is strongly fractured. Broken and blocky. Lower contact at 133 dca.	Q156321	155.12	156.00	0.88	1.72	0.45	
			Q156322	156.00	157.35	1.35	2.9	0.38	
157.35 -	173.95	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 67 dca.	Q156323	157.35	158.00	0.65	7.19	1.2	
			Q156325	158.00	159.00	1.00	6.38	0.48	2.64
			Q156326	159.00	160.00	1.00	7.67	0.51	2.62
			Q156327	160.00	161.00	1.00	6.61	0.56	2.62
			Q156328	161.00	162.00	1.00	5.66	0.63	2.68
			Q156329	162.00	163.00	1.00	5.96	0.52	2.61
			Q156331	163.00	164.00	1.00	8.1	2.63	
			Q156330	163.00	164.00	1.00	7.3	2.14	
			Q156332	164.00	165.00	1.00	4.87	1.27	
			Q156333	165.00	166.00	1.00	6.12	0.62	
			Q156334	166.00	167.00	1.00	3.16	0.76	
			Q156336	167.00	168.00	1.00	5.75	1.08	
			Q156337	168.00	169.00	1.00	3.25	0.37	
			Q156338	169.00	170.00	1.00	6.39	0.61	
			Q156339	170.00	171.00	1.00	2.48	0.45	
			Q156340	171.00	172.00	1.00	4.97	0.47	
			Q156341	172.00	173.00	1.00	3.39	0.32	
			Q156342	173.00	173.95	0.95	7.36	0.4	
173.95 -	174.87	**FPOP Feldspar Porphyry with Graphitic Overprinting** Dark grey to black. Medium grained with 1-3mm round feldspar phenocrysts. Weak graphite overprinting. Lower contact at 85 dca.	Q156343	173.95	174.87	0.92	0.32	0.52	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
174.87	183.29	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 182.82 to 183.20m Dark grey medium grained felsic dyke. Upper Contact 30, Lower Contact 132 dca. Lower contact at 47 dca.	Q156345	174.87	176.00	1.13	4.48	0.44	
			Q156346	176.00	177.00	1.00	5.5	0.58	
			Q156347	177.00	178.00	1.00	3.05	0.68	
			Q156348	178.00	179.00	1.00	5.75	0.43	
			Q156349	179.00	180.00	1.00	6.73	0.53	
			Q156351	180.00	181.00	1.00	4.09	0.51	
			Q156350	180.00	181.00	1.00	3.82	0.5	
			Q156352	181.00	182.00	1.00	5.96	0.57	
			Q156353	182.00	183.29	1.29	6.81	0.52	
183.29	185.85	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 21 dca.	Q156354	183.29	184.00	0.71	0.81	0.15	
			Q156356	184.00	185.00	1.00	0.84	0.18	
			Q156357	185.00	185.85	0.85	0.46	0.15	
185.85	188.12	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 19 dca.	Q156358	185.85	187.00	1.15	5.61	0.42	
			Q156359	187.00	188.12	1.12	7.13	0.54	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
188.12	191.63	**GRDROP Granodiorite with Graphitic Overprinting** Light grey. Possibly a quartz diorite. Very light orange tinge. Medium grained with salt and pepper texture. Massive and very hard. Lower contact at 80 dca.	Q156360	188.12	189.00	0.88	0.17	0.09	
			Q156361	189.00	190.00	1.00	0.06	0.04	
			Q156362	190.00	191.00	1.00	0.13	0.11	
			Q156363	191.00	191.63	0.63	0.26	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
191.63	241.47	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 192.55 to 192.95 Granodiorite dyke, Upper Contact at 163, Lower Contact at 90 dca. 198.85 to 199.71 Overprinted syenite, Upper Contact at 113, Lower Contact at 72 dca. 200.06 to 200.76 Fine grained intermediate dyke, Upper Contact at 52, Lower Contact at 102 dca. 220.84 to 221.37 Mafic dyke at 49 dca. 221.72 to 221.75 Granite dyke at 57 dca. 223.34 5mm fault gouge at 15 dca. 224.53 to 224.60 Granite dyke at 23 dca. 226.55 to 226.64 Chlorite biotite dyke at 69 dca. Lower contact at 35 dca.							
			Q156365	191.63	192.55	0.92	1.99	0.29	
			Q156366	192.55	192.95	0.40	0.46	0.12	
			Q156367	192.95	194.00	1.05	4.33	0.53	
			Q156368	194.00	195.00	1.00	3.08	0.54	
			Q156369	195.00	196.00	1.00	6.53	1.35	
			Q156370	196.00	197.00	1.00	4.43	0.76	
			Q156371	196.00	197.00	1.00	4.82	0.82	
			Q156372	197.00	198.00	1.00	5.91	0.5	
			Q156373	198.00	198.85	0.85	6.8	0.49	
			Q156374	198.85	199.71	0.86	0.13	0.12	
			Q156376	199.71	200.06	0.35	4.16	0.34	
			Q156377	200.06	200.76	0.70	1.07	0.29	
			Q156378	200.76	202.00	1.24	4.73	0.41	
			Q156379	202.00	203.00	1.00	7.96	0.65	
			Q156380	203.00	204.00	1.00	4.11	0.38	
			Q156381	204.00	205.00	1.00	6.51	0.64	
			Q156382	205.00	206.00	1.00	3.65	0.78	
			Q156383	206.00	207.00	1.00	2.25	0.35	
			Q156385	207.00	208.00	1.00	2.92	0.26	
			Q156386	208.00	209.00	1.00	4.18	0.41	
			Q156387	209.00	210.00	1.00	3.18	0.48	
			Q156388	210.00	211.00	1.00	4.58	0.51	
			Q156389	211.00	212.00	1.00	4.64	0.97	
			Q156390	212.00	213.00	1.00	4.48	0.98	
			Q156391	212.00	213.00	1.00	4.76	1.18	
			Q156392	213.00	214.00	1.00	0.28	0.11	
			Q156393	214.00	215.00	1.00	2.14	0.35	
			Q156394	215.00	216.00	1.00	1.97	0.25	
			Q156396	216.00	217.00	1.00	1.36	0.15	
			Q156397	217.00	218.00	1.00	3.56	0.79	
			Q156398	218.00	219.00	1.00	5.48	0.64	
			Q156399	219.00	220.00	1.00	5.54	0.32	
			Q156400	220.00	220.84	0.84	1.89	0.3	
			Q156401	220.84	221.37	0.53	0.24	0.14	
			Q156402	221.37	222.00	0.63	2.97	0.31	
			Q156403	222.00	223.00	1.00	2.32	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q156405	223.00	224.00	1.00	2.21	0.22	
			Q156406	224.00	225.00	1.00	1.83	0.38	
			Q156407	225.00	226.00	1.00	2.18	0.33	
			Q156408	226.00	227.00	1.00	1.47	0.24	
			Q156409	227.00	228.00	1.00	0.84	0.24	
			Q156410	228.00	229.00	1.00	1.16	0.35	
			Q156411	228.00	229.00	1.00	1.24	0.36	
			Q156412	229.00	230.00	1.00	1.61	0.32	
			Q156413	230.00	231.00	1.00	1.1	0.25	
			Q156414	231.00	232.00	1.00	0.46	0.34	
			Q156416	232.00	233.00	1.00	0.45	0.09	
			Q156417	233.00	234.00	1.00	1.22	0.19	
			Q156418	234.00	235.00	1.00	0.73	0.1	
			Q156419	235.00	236.00	1.00	0.27	0.12	
			Q156420	236.00	237.00	1.00	0.68	0.27	
			Q156421	237.00	238.00	1.00	1.92	0.48	
			Q156422	238.00	239.00	1.00	1.35	0.39	
			Q156423	239.00	240.00	1.00	2.27	0.34	
			Q156425	240.00	241.00	1.00	2	0.37	
			Q156426	241.00	241.47	0.47	4.78	0.41	
241.47	242.79	**SYENOP Syenite with Graphitic Overprinting** Light grey with slight orange tinge. Massive and very hard. 241.64 to 241.67 Graphite breccia at 86 dca. 241.67 to 241.73 Chlorite dyke at 86 dca. Lower contact at 105 dca.	Q156427	241.47	242.00	0.53	0.97	0.22	
			Q156428	242.00	242.79	0.79	0.32	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
242.79	256.94	**GRPBX Graphitic Breccia** Light grey with black graphite matrix. Unit is different than above breccias in that the fragments are larger and lighter with less overprinting but the matrix seems to be more pure graphitic. 243.51 to 243.82 Porphyritic Intermediate Dyke at 65 dca. 246.00 to 246.35 Strongly fractured broken blocky core. Lower contact at 85 dca.	Q156429	242.79	243.51	0.72	3.18	0.38	
			Q156430	243.51	243.82	0.31	0.06	0.29	
			Q156431	243.51	243.82	0.31	0.05	0.31	
			Q156432	243.82	245.00	1.18	4.19	0.38	
			Q156433	245.00	246.00	1.00	6.78	0.4	
			Q156434	246.00	247.00	1.00	1.27	0.25	
			Q156436	247.00	248.00	1.00	2.08	0.17	
			Q156437	248.00	249.00	1.00	0.6	0.1	
			Q156438	249.00	250.00	1.00	2.22	0.26	
			Q156439	250.00	251.00	1.00	4.25	0.65	
			Q156440	251.00	252.00	1.00	1.16	0.35	
			Q156441	252.00	253.00	1.00	4.56	0.24	
			Q156442	253.00	254.00	1.00	2.43	0.34	
			Q156443	254.00	255.00	1.00	3.41	0.36	
			Q156445	255.00	256.00	1.00	0.67	0.23	
			Q156446	256.00	256.94	0.94	3.9	0.39	
256.94	260.00	**FDOP Felsic Dyke with Graphitic Overprinting** Very dark grey to black. Massive with small white 1mm phenocrysts. Unit is medium grained and looks to have a diabase texture. Strong conductivity with apparent strong graphite content. Lower contact gradational at 45 dca.	Q156447	256.94	258.00	1.06	7.99	0.35	
			Q156448	258.00	259.00	1.00	6.19	0.36	
			Q156449	259.00	260.00	1.00	5.96	0.36	
260.00	260.87	**SYEN Syenite** Orange and dark grey tinge. Massive and very hard. Possible chill margin between two units. Lower contact gradational at 133 dca.	Q156451	260.00	260.87	0.87	0.12	0.1	
			Q156450	260.00	260.87	0.87	0.17	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
260.87 -	271.13	**SYENSL Syenite Sill (unmineralized)** Light to dark green. Fine to medium grained. Typical sill unit in pipe. Some type of intermediate to mafic dyke swarm that cools coarser with swirls of coarse grained material in fine grained glassy rock. Lower contact at 125 dca.	Q156452	260.87	262.00	1.13	0.01	0.09	
			Q156453	262.00	263.00	1.00	0.01	0.05	
			Q156454	263.00	264.00	1.00	0.01	0.02	
			Q156456	264.00	265.50	1.50	0.09	0.07	
			Q156457	265.50	267.00	1.50	0.01	0.05	
			Q156458	267.00	268.50	1.50	0.01	0.03	
			Q156459	268.50	270.00	1.50	0.01	0.04	
			Q156460	270.00	271.13	1.13	0.02	0.22	
271.13 -	272.36	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 38 dca.	Q156461	271.13	272.36	1.23	1.5	0.19	
272.36 -	275.51	**GRDR Granodiorite** Light grey with dark grey/green. Massive with slight stretch of fabric. Diorite salt and pepper texture but I don't think this is a quartz diorite. Lower contact at 65 dca.	Q156462	272.36	273.50	1.14	0.1	0.11	
			Q156463	273.50	274.50	1.00	0.04	0.11	
			Q156465	274.50	275.51	1.01	0.01	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
275.51	288.92	**IDP Intermediate Dike (Porphyritic)** Green to very dark green with red tinge. Medium grained Massive with phenocrysts that have dark green chill margins surrounding them. Unit becomes very dark. 284.86 to 285.03 Felsic dyke at 45 dca. 285.12 to 285.14 Felsic dyke at 46 dca. Lower contact at 63 dca.	Q156466	275.51	276.00	0.49	0.01	0.32	
			Q156467	276.00	277.50	1.50	0.01	0.14	
			Q156468	277.50	279.00	1.50	0.01	0.09	
			Q156469	279.00	280.50	1.50	0.01	0.07	
			Q156471	280.50	282.00	1.50	0.01	0.06	
			Q156470	280.50	282.00	1.50	0.01	0.06	
			Q156472	282.00	283.50	1.50	0.02	0.09	
			Q156473	283.50	284.86	1.36	0.07	0.06	
			Q156474	284.86	285.14	0.28	0.01	0.02	
			Q156476	285.14	286.50	1.36	0.01	0.06	
			Q156477	286.50	288.00	1.50	0.04	0.06	
			Q156478	288.00	288.92	0.92	0.03	0.1	
288.92	296.41	**FP Feldspar Porphyry** Dark grey to black. Glassy massive and very hard. 1-3mm feldspar phenocrysts. Weak graphite? Hard to pinpoint if there is. Lower contact very irregular at 153 dca.	Q156479	288.92	290.00	1.08	0.67	0.23	
			Q156480	290.00	291.00	1.00	1.1	0.22	
			Q156481	291.00	292.00	1.00	1.45	0.29	
			Q156482	292.00	293.00	1.00	2.44	0.36	
			Q156483	293.00	294.00	1.00	2.66	0.33	
			Q156485	294.00	295.00	1.00	3.88	0.35	
			Q156486	295.00	296.00	1.00	0.85	0.26	
			Q156487	296.00	296.41	0.41	1.24	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
296.41	299.73	**IDP Intermediate Dike (Porphyritic)** Dark green mafic dyke with very fine grained matrix and 1-3mm light green to white angular phenocrysts? Massive and hard. 297.26 to 297.49 Felsic dyke at 37 dca. Lower contact irregular at 145 dca.	Q156488	296.41	297.00	0.59	0.02	0.27	
			Q156489	297.00	298.00	1.00	0.02	0.17	
			Q156491	298.00	299.00	1.00	0.02	0.25	
			Q156490	298.00	299.00	1.00	0.03	0.24	
			Q156492	299.00	299.73	0.73	0.07	0.28	
299.73	303.36	**GRPBX Graphitic Breccia** Light to dark grey. Moderate to strong graphite content. Lower contact at 90 dca.	Q156493	299.73	300.50	0.77	3.46	0.31	
			Q156494	300.50	301.50	1.00	2.61	0.2	
			Q156496	301.50	302.50	1.00	2.04	0.23	
			Q156497	302.50	303.36	0.86	1.35	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
303.36	337.96	**SYENSL Syenite Sill (unmineralized)** Light to dark olive green. Massive, coarse grained and hard. 327.00 to 330.00 Strongly fractured zone. At 45 dca. Lower contact gradational at 124 dca.	Q156498	303.36	304.50	1.14	0.04	0.05	
			Q156499	304.50	306.00	1.50	0.02	0.01	
			Q156500	306.00	307.50	1.50	0.04	0.01	
			Q156501	307.50	309.00	1.50	0.04	0.01	
			Q156502	309.00	310.50	1.50	0.04	0.02	
			Q156503	310.50	312.00	1.50	0.02	0.02	
			Q156505	312.00	313.50	1.50	0.06	0.03	
			Q156506	313.50	315.00	1.50	0.07	0.08	
			Q156507	315.00	316.50	1.50	0.03	0.02	
			Q156508	316.50	318.00	1.50	0.03	0.02	
			Q156509	318.00	319.50	1.50	0.04	0.05	
			Q156511	319.50	321.00	1.50	0.08	0.06	
			Q156510	319.50	321.00	1.50	0.05	0.06	
			Q156512	321.00	322.50	1.50	0.05	0.08	
			Q156513	322.50	324.00	1.50	0.03	0.07	
			Q156514	324.00	325.50	1.50	0.02	0.04	
			Q156516	325.50	327.00	1.50	0.03	0.05	
			Q156517	327.00	328.50	1.50	0.02	0.05	
			Q156518	328.50	330.00	1.50	0.04	0.03	
			Q156519	330.00	331.50	1.50	0.03	0.05	
			Q156520	331.50	333.00	1.50	0.05	0.06	
			Q156521	333.00	334.50	1.50	0.04	0.06	
			Q156522	334.50	336.00	1.50	0.01	0.11	
			Q156523	336.00	337.00	1.00	0.02	0.25	
			Q156525	337.00	337.96	0.96	0.05	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
337.96	346.00	**GRPBX Graphitic Breccia** Dark grey to black. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 345.28 to 345.55 Crosscutting Granite dyke at 165 dca.	Q156526	337.96	339.00	1.04	1	0.14	
			Q156527	339.00	340.00	1.00	1.28	0.33	
			Q156528	340.00	341.00	1.00	1.14	0.23	
			Q156529	341.00	342.00	1.00	2.3	0.22	
			Q156531	342.00	343.00	1.00	3.63	0.11	
			Q156530	342.00	343.00	1.00	3.78	0.12	
			Q156532	343.00	344.00	1.00	3.14	0.27	
			Q156533	344.00	345.00	1.00	2.96	0.16	
			Q156534	345.00	345.55	0.55	1.75	0.09	
			Q156536	345.55	346.00	0.45	4.06	0.14	
346.00	349.70	**SYENOP Syenite with Graphitic Overprinting** Dark grey with orange and pink tinge. Massive and very hard. Local graphite breccia. 348.34 to 348.52 Graphite breccia at 57 dca. Lower contact at 95 dca.	Q156537	346.00	347.00	1.00	0.27	0.3	
			Q156538	347.00	348.00	1.00	0.21	0.1	
			Q156539	348.00	348.52	0.52	0.49	0.16	
			Q156540	348.52	349.00	0.48	0.34	0.09	
			Q156541	349.00	349.70	0.70	0.32	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
349.70	368.17	**GRPBX Graphitic Breccia** Dark grey to black. 1-10cm angular to subrounded fragments of syenite that is well overprinted and yet does not react well with the conductivity meter. I suspect a lower grade here. Several crosscutting dykes of gabbro and or syenite mix throughout. 350.41 to 351.03 Syenop UC at 55 LC crosscutting at 25 dca. 352.02 to 352.48 Syenite dyke? At 55 dca. 352.83 to 353.35 Syenite dyke at UC 83 LC 17 dca. 354.93 to 355.47 Syenite dyke UC at 47 dca LC at 112 dca. 355.79 to 356.02 Syenite dyke at UC 37 LC at 106 dca. 356.10 to 356.71 Gabbro dyke UC at 115 LC at 140 dca. 357.04 to 357.88 Gabbro dyke UC 89 LC 70 dca. 359.43 to 360.23 Gabbro dyke UC 77 LC 43 dca. 362.49 to 362.74 Syenite dyke UC 93 LC at 50 dca. 362.84 to 362.91 Syenite dyke Contacts at 70 dca. 367.19 to 367.90 Syenite dyke at 55 & 43 dca. Lower contact at 47 dca.	Q156542	349.70	350.41	0.71	2.36	0.16	
			Q156543	350.41	351.03	0.62	0.04	0.04	
			Q156545	351.03	352.02	0.99	3.8	0.23	
			Q156546	352.02	352.48	0.46	0.57	0.23	
			Q156547	352.48	352.83	0.35	2.11	0.27	
			Q156548	352.83	353.35	0.52	0.36	0.07	
			Q156549	353.35	354.00	0.65	2.84	0.16	
			Q156550	354.00	354.93	0.93	2.45	0.19	
			Q156551	354.00	354.93	0.93	2.48	0.17	
			Q156552	354.93	355.47	0.54	0.24	0.04	
			Q156553	355.47	356.10	0.63	3.32	0.21	
			Q156554	356.10	356.71	0.61	0.26	0.17	
			Q156556	356.71	357.04	0.33	2.45	0.17	
			Q156557	357.04	357.88	0.84	0.17	0.08	
			Q156558	357.88	358.75	0.87	2.51	0.18	
			Q156559	358.75	359.43	0.68	2.39	0.13	
			Q156560	359.43	360.23	0.80	0.2	0.08	
			Q156561	360.23	361.00	0.77	2.52	0.15	
			Q156562	361.00	362.00	1.00	2.94	0.24	
			Q156563	362.00	362.49	0.49	2.4	0.21	
			Q156565	362.49	363.00	0.51	0.71	0.2	
			Q156566	363.00	364.00	1.00	2.12	0.1	
			Q156567	364.00	365.00	1.00	2.32	0.26	
			Q156568	365.00	366.00	1.00	4.1	0.28	
			Q156569	366.00	367.19	1.19	3.33	0.26	
			Q156570	367.19	367.90	0.71	0.75	0.19	
			Q156571	367.19	367.90	0.71	0.79	0.16	
			Q156572	367.90	368.17	0.27	5.23	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
368.17	370.06	**SYENSL Syenite Sill (unmineralized)** Light to dark olive green. Massive and hard. Medium grained. Lower contact at 121 dca.	Q156573	368.17	369.00	0.83	0.24	0.04	
			Q156574	369.00	370.06	1.06	0.06	0.05	
370.06	376.87	**GRPBX Graphitic Breccia** As previous. Dark grey to black. 1-10cm angular to subrounded fragments of syenite that is well overprinted and yet does not react well with the conductivity meter. I suspect a lower grade here. Several crosscutting dykes of gabbro and or syenite mix throughout. 370.32 to 370.68 Syenite dyke, Upper contact at 121, Lower Contact at 63 dca. 375.92 to 376.20 Syenite dyke, Upper Contact at 75 dca, Lower Contact at 109 dca. Lower contact at 67 dca.	Q156576	370.06	370.32	0.26	1.99	0.23	
			Q156577	370.32	370.68	0.36	0.67	0.21	
			Q156578	370.68	372.00	1.32	4.07	0.3	
			Q156579	372.00	373.00	1.00	3.55	0.14	
			Q156580	373.00	374.00	1.00	3.95	0.27	
			Q156581	374.00	375.00	1.00	3.02	0.22	
			Q156582	375.00	375.92	0.92	5.2	0.23	
			Q156583	375.92	376.20	0.28	0.21	0.25	
			Q156585	376.20	376.87	0.67	2.89	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
376.87	404.74	**SYENSL Syenite Sill (unmineralized)** Light to dark olive green. Massive and hard. Medium grained. 401.36 2mm sharp fault gouge at 53 dca. Lower contact at 141 dca.	Q156586	376.87	378.00	1.13	0.09	0.06	
			Q156587	378.00	379.50	1.50	0.08	0.06	
			Q156588	379.50	381.00	1.50	0.05	0.09	
			Q156589	381.00	382.50	1.50	0.06	0.24	
			Q156590	382.50	384.00	1.50	0.02	0.01	
			Q156591	382.50	384.00	1.50	0.03	0.01	
			Q156592	384.00	385.50	1.50	0.08	0.03	
			Q156593	385.50	387.00	1.50	0.07	0.01	
			Q156594	387.00	388.50	1.50	0.07	0.03	
			Q156596	388.50	390.00	1.50	0.11	0.06	
			Q156597	390.00	391.50	1.50	0.07	0.01	
			Q156598	391.50	393.00	1.50	0.06	0.01	
			Q156599	393.00	394.50	1.50	0.08	0.01	
			Q156600	394.50	396.00	1.50	0.04	0.03	
			Q156601	396.00	397.50	1.50	0.1	0.02	
			Q156602	397.50	399.00	1.50	0.05	0.02	
			Q156603	399.00	400.50	1.50	0.08	0.03	
			Q156605	400.50	402.00	1.50	0.09	0.09	
			Q156606	402.00	403.00	1.00	0.05	0.1	
			Q156607	403.00	404.00	1.00	0.05	0.12	
			Q156608	404.00	404.74	0.74	0.06	0.35	
404.74	407.98	**GRPOP Graphite Overprinting** Dark grey to black. Unit contains a lot of graphite and is strongly overprinted but contain minor brecciation. Massive and hard. Lower contact irregular at 15 dca.	Q156609	404.74	405.00	0.26	5	0.44	
			Q156611	405.00	406.00	1.00	3.92	0.09	
			Q156610	405.00	406.00	1.00	4.26	0.09	
			Q156612	406.00	407.00	1.00	1.16	0.21	
			Q156613	407.00	407.98	0.98	7.32	0.42	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
407.98 -	409.47	**SYENSL Syenite Sill (unmineralized)** Light to dark olive green. Massive and hard. Medium grained. Lower contact 115 dca.	Q156614	407.98	409.47	1.49	0.06	0.19	
409.47 -	420.82	**SYEN Syenite** Grey with orange tinge. Massive and very hard. Lower contact at 138 dca.	Q156616	409.47	410.00	0.53	0.05	0.98	
			Q156617	410.00	411.00	1.00	0.23	0.11	
			Q156618	411.00	412.00	1.00	0.55	0.13	
			Q156619	412.00	413.00	1.00	0.4	0.06	
			Q156620	413.00	414.00	1.00	0.7	0.08	
			Q156621	414.00	415.00	1.00	0.87	0.26	
			Q156622	415.00	416.00	1.00	1.01	0.11	
			Q156623	416.00	417.00	1.00	1.16	0.03	
			Q156625	417.00	418.00	1.00	1.19	0.06	
			Q156626	418.00	419.00	1.00	0.83	0.13	
			Q156627	419.00	420.00	1.00	0.91	0.14	
			Q156628	420.00	420.82	0.82	0.59	0.1	
420.82 -	428.59	**DIOR Diorite** Light grey and orange with red tinge of hematite? Of orthoclase weathering. Unit is extremely fractured fault zone. Broken and blocky core. Massive and hard. Unit has a salt and pepper medium grained texture. Lower contact at 37 dca.	Q156629	420.82	422.00	1.18	0.02	0.98	
			Q156631	422.00	423.00	1.00	0.01	1.26	
			Q156630	422.00	423.00	1.00	0.02	1.27	
			Q156632	423.00	424.00	1.00	0.03	0.35	
			Q156633	424.00	425.00	1.00	0.04	0.42	
			Q156634	425.00	426.00	1.00	0.07	0.22	
			Q156636	426.00	427.00	1.00	0.02	0.55	
			Q156637	427.00	428.00	1.00	0.06	0.47	
			Q156638	428.00	428.59	0.59	0.02	0.43	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
428.59	431.50	**IDP Intermediate Dike (Porphyritic)** Dark green with angular white phenocrysts? Massive and hard. Unit is strongly fractured as above. Lower contact at 31 dca.	Q156639	428.59	429.50	0.91	0.06	0.17	
			Q156640	429.50	430.50	1.00	0.02	0.19	
			Q156641	430.50	431.50	1.00	0.04	0.23	
431.50	450.79	**DIOR Diorite** Light grey and orange with red tinge of hematite? Of orthoclase weathering. Unit is extremely fractured fault zone. Broken and blocky core. Massive and hard. Unit has a salt and pepper medium grained texture. Lower contact gradational at 109 dca.	Q156642	431.50	432.00	0.50	0.03	0.28	
			Q156643	432.00	433.50	1.50	0.01	0.45	
			Q156645	433.50	435.00	1.50	0.01	0.55	
			Q156646	435.00	436.50	1.50	0.01	0.86	
			Q156647	436.50	438.00	1.50	0.04	1.06	
			Q156648	438.00	439.50	1.50	0.01	0.62	
			Q156649	439.50	441.00	1.50	0.06	0.52	
			Q156651	441.00	442.50	1.50	0.02	3.44	
			Q156650	441.00	442.50	1.50	0.03	3.61	
			Q156652	442.50	444.00	1.50	0.01	2.57	
			Q156653	444.00	445.50	1.50	0.01	1.24	
			Q156654	445.50	447.00	1.50	0.01	0.54	
			Q156656	447.00	448.50	1.50	0.01	2.2	
			Q156657	448.50	450.00	1.50	0.02	0.16	
			Q156658	450.00	450.79	0.79	0.02	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
450.79	472.48	**SYENSL Syenite Sill (unmineralized)** Light to dark olive green. Massive and hard. Medium grained. Lower contact at 53 dca.	Q156659	450.79	452.00	1.21	0.01	0.23	
			Q156660	452.00	453.00	1.00	0.03	0.07	
			Q156661	453.00	454.50	1.50	0.01	0.11	
			Q156662	454.50	456.00	1.50	0.01	0.05	
			Q156663	456.00	457.50	1.50	0.01	0.1	
			Q156665	457.50	459.00	1.50	0.01	0.04	
			Q156666	459.00	460.50	1.50	0.01	0.07	
			Q156667	460.50	462.00	1.50	0.01	0.17	
			Q156668	462.00	463.50	1.50	0.01	0.22	
			Q156669	463.50	465.00	1.50	0.01	0.18	
			Q156670	465.00	466.50	1.50	0.01	0.05	
			Q156671	465.00	466.50	1.50	0.01	0.05	
			Q156672	466.50	468.00	1.50	0.01	0.18	
			Q156673	468.00	469.50	1.50	0.01	0.05	
			Q156674	469.50	471.00	1.50	0.01	0.05	
			Q156676	471.00	472.48	1.48	0.01	0.15	
472.48	473.67	**IDP Intermediate Dike (Porphyritic)** Grey to light green with dark green phenocrysts? Lower contact at 69 dca.	Q156677	472.48	473.67	1.19	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
473.67	507.00	**SYEN Syenite** Light grey with orange tinge. Massive and very hard. Possibly a granodiorite. 477.40 to 477.60 Mafic dyke or chlorite biotite alteration at 70 dca. 478.59 to 478.71 Chlorite biotite alteration at 78 dca. 496.81 to 496.84 Light green mafic dyke at 85 dca. EOH 507.0m	Q156678	473.67	475.00	1.33	0.74	0.04	
			Q156679	475.00	476.00	1.00	0.36	0.04	
			Q156680	476.00	477.00	1.00	0.48	0.12	
			Q156681	477.00	477.40	0.40	0.39	0.13	
			Q156682	477.40	477.60	0.20	0.12	0.1	
			Q156683	477.60	478.00	0.40	0.28	0.11	
			Q156685	478.00	479.00	1.00	0.56	0.17	
			Q156686	479.00	480.00	1.00	0.36	0.08	
			Q156687	480.00	481.50	1.50	0.36	0.18	
			Q156688	481.50	483.00	1.50	0.37	0.18	
			Q156689	483.00	484.50	1.50	0.3	0.2	
			Q156691	484.50	486.00	1.50	0.37	0.26	
			Q156690	484.50	486.00	1.50	0.31	0.28	
			Q156692	486.00	487.50	1.50	0.24	0.27	
			Q156693	487.50	489.00	1.50	0.16	0.26	
			Q156694	489.00	490.50	1.50	0.25	0.18	
			Q156696	490.50	492.00	1.50	0.52	0.25	
			Q156697	492.00	493.50	1.50	0.26	0.21	
			Q156698	493.50	495.00	1.50	0.11	0.25	
			Q156699	495.00	496.50	1.50	0.27	0.27	
			Q156700	496.50	498.00	1.50	0.23	0.13	
			Q156701	498.00	499.50	1.50	0.29	0.27	
			Q156702	499.50	501.00	1.50	0.28	0.23	
			Q156703	501.00	502.50	1.50	0.34	0.26	
			Q156705	502.50	504.00	1.50	0.3	0.11	
			Q156706	504.00	505.50	1.50	0.11	0.15	
			Q156707	505.50	507.00	1.50	0.07	0.13	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	381.00	14/09/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545614	683021.6			Reflex APS		17/09/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	125.00	330.10		-69.40	Chibougamau Diamond Drilling		18/09/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Albany Project Area	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	321	*Casing Pulled*	*Casing (1)*	60.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Test the southeastern contact of the East pipe at depth	This drill hole intersected the southeast contact of graphitic breccia at 63.22m. This hole intersected well mineralized graphititc breccia from 63.22m to 295.10m for 231.89m downhole, from 306.26 to 325.93 for 19.67m and from 338.95 to 368.7 for 29.75m From 57.00m to 372.50m, the assays from this intersection averaged 5.58% Cg over 315.50m; within this intersection a higher grade graphite zone from 63.2m2 to 281.77m averaged 6.75% Cg over 218.55m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
69.00			341	332	-69.3	-69.3	☑	Reflex EZ	57148	
72.00			340.9	331.9	-69	-69	☑	Reflex EZ	56595	
75.00			340	331	-69.4	-69.4	☑	Reflex EZ	56419	
78.00			340.6	331.6	-69.4	-69.4	☑	Reflex EZ	56334	
81.00			340.5	331.5	-69.1	-69.1	☑	Reflex EZ	56305	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			340.7	331.7	-69.5	-69.5	☑	Reflex EZ	56296	
87.00			340.5	331.5	-69.4	-69.4	☑	Reflex EZ	56326	
90.00			340.9	331.9	-69.3	-69.3	☑	Reflex EZ	55942	
93.00			340.1	331.1	-69.3	-69.3	☑	Reflex EZ	56277	
96.00			340.6	331.6	-69.6	-69.6	☑	Reflex EZ	56251	
102.00			340.6	331.6	-69.4	-69.4	☑	Reflex EZ	56239	
105.00			340.3	331.3	-69.4	-69.4	☑	Reflex EZ	56246	
108.00			340.8	331.8	-69.5	-69.5	☑	Reflex EZ	56209	
114.00			340.1	331.1	-69.5	-69.5	☑	Reflex EZ	56235	
117.00			340.1	331.1	-69.8	-69.8	☑	Reflex EZ	56222	
129.00			340.3	331.3	-69.7	-69.7	☑	Reflex EZ	56215	
132.00			339.8	330.8	-69.5	-69.5	☑	Reflex EZ	56222	
135.00			340.5	331.5	-69.7	-69.7	☑	Reflex EZ	56197	
138.00			340	331	-69.6	-69.6	☑	Reflex EZ	56220	
141.00			339.8	330.8	-69.9	-69.9	☑	Reflex EZ	56230	
144.00			340	331	-69.5	-69.5	☑	Reflex EZ	56240	
147.00			340.4	331.4	-69.7	-69.7	☑	Reflex EZ	56211	
150.00			340	331	-69.5	-69.5	☑	Reflex EZ	56228	
153.00			340.1	331.1	-69.8	-69.8	☑	Reflex EZ	56232	
156.00			340.3	331.3	-69.5	-69.5	☑	Reflex EZ	56235	
159.00			340.1	331.1	-69.5	-69.5	☑	Reflex EZ	56231	
162.00			339.2	330.2	-70.6	-70.6	☑	Reflex EZ	56227	
165.00			340.3	331.3	-69.6	-69.6	☑	Reflex EZ	56220	
168.00			340	331	-69.6	-69.6	☑	Reflex EZ	56228	
171.00			340.3	331.3	-69.8	-69.8	☑	Reflex EZ	56238	
174.00			340	331	-69.6	-69.6	☑	Reflex EZ	56244	
177.00			340.4	331.4	-69.7	-69.7	☑	Reflex EZ	56242	
180.00			340.2	331.2	-70	-70	☑	Reflex EZ	56239	
183.00			340	331	-69.7	-69.7	☑	Reflex EZ	56263	
186.00			340.1	331.1	-69.7	-69.7	☑	Reflex EZ	56231	
189.00			340.2	331.2	-70	-70	☑	Reflex EZ	56223	
192.00			339.7	330.7	-69.7	-69.7	☑	Reflex EZ	56118	
195.00			340	331	-70.1	-70.1	☑	Reflex EZ	56249	
198.00			339.8	330.8	-69.8	-69.8	☑	Reflex EZ	56251	
201.00			340.4	331.4	-69.8	-69.8	☑	Reflex EZ	56217	
204.00			340.3	331.3	-70	-70	☑	Reflex EZ	56239	
207.00			340.2	331.2	-69.8	-69.8	☑	Reflex EZ	56253	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			340.6	331.6	-69.9	-69.9	☑	Reflex EZ	56248	
213.00			340.2	331.2	-70.1	-70.1	☑	Reflex EZ	56252	
216.00			340.2	331.2	-69.8	-69.8	☑	Reflex EZ	56253	
219.00			340.7	331.7	-70	-70	☑	Reflex EZ	56256	
222.00			340.2	331.2	-69.8	-69.8	☑	Reflex EZ	56271	
225.00			340.4	331.4	-69.7	-69.7	☑	Reflex EZ	56289	
228.00			340.5	331.5	-70	-70	☑	Reflex EZ	56258	
231.00			340.6	331.6	-69.7	-69.7	☑	Reflex EZ	56277	
234.00			340.5	331.5	-70	-70	☑	Reflex EZ	56263	
237.00			340.1	331.1	-69.7	-69.7	☑	Reflex EZ	56277	
240.00			340.8	331.8	-69.9	-69.9	☑	Reflex EZ	56269	
243.00			340.3	331.3	-70	-70	☑	Reflex EZ	56268	
246.00			340.3	331.3	-69.6	-69.6	☑	Reflex EZ	56289	
249.00			340.6	331.6	-69.7	-69.7	☑	Reflex EZ	56267	
252.00			340.7	331.7	-69.7	-69.7	☑	Reflex EZ	56258	
255.00			340.7	331.7	-69.7	-69.7	☑	Reflex EZ	56267	
258.00			340.4	331.4	-69.7	-69.7	☑	Reflex EZ	56278	
261.00			340.8	331.8	-69.7	-69.7	☑	Reflex EZ	56316	
264.00			340.6	331.6	-69.7	-69.7	☑	Reflex EZ	56231	
267.00			340.4	331.4	-69.6	-69.6	☑	Reflex EZ	56260	
270.00			340.4	331.4	-69.6	-69.6	☑	Reflex EZ	56238	
273.00			340.7	331.7	-69.6	-69.6	☑	Reflex EZ	56339	
276.00			340.2	331.2	-69.6	-69.6	☑	Reflex EZ	56250	
279.00			340.5	331.5	-69.6	-69.6	☑	Reflex EZ	56266	
282.00			340.6	331.6	-69.6	-69.6	☑	Reflex EZ	56292	
285.00			341	332	-69.7	-69.7	☑	Reflex EZ	56281	
288.00			340.3	331.3	-70	-70	☑	Reflex EZ	56312	
291.00			340.5	331.5	-69.6	-69.6	☑	Reflex EZ	56269	
294.00			341	332	-69.8	-69.8	☑	Reflex EZ	56321	
297.00			340.4	331.4	-69.9	-69.9	☑	Reflex EZ	56205	
300.00			341	332	-69.7	-69.7	☑	Reflex EZ	56247	
303.00			340.1	331.1	-69.7	-69.7	☑	Reflex EZ	56219	
306.00			340.7	331.7	-69.6	-69.6	☑	Reflex EZ	56296	
309.00			340.7	331.7	-69.9	-69.9	☑	Reflex EZ	56336	
312.00			340.7	331.7	-69.6	-69.6	☑	Reflex EZ	56346	
315.00			340.1	331.1	-69.7	-69.7	☑	Reflex EZ	56281	
318.00			340.8	331.8	-69.6	-69.6	☑	Reflex EZ	56229	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
321.00			340.9	331.9	-69.7	-69.7	☑	Reflex EZ	56393	
324.00			340.5	331.5	-69.6	-69.6	☑	Reflex EZ	56339	
327.00			340.9	331.9	-69.8	-69.8	☑	Reflex EZ	56207	
330.00			340.5	331.5	-69.8	-69.8	☑	Reflex EZ	56203	
333.00			340.5	331.5	-69.5	-69.5	☑	Reflex EZ	56298	
336.00			340.8	331.8	-69.7	-69.7	☑	Reflex EZ	56256	
339.00			341	332	-69.5	-69.5	☑	Reflex EZ	56277	
342.00			340.4	331.4	-69.5	-69.5	☑	Reflex EZ	56292	
345.00			339.9	330.9	-69.5	-69.5	☑	Reflex EZ	56323	
348.00			339.9	330.9	-69.5	-69.5	☑	Reflex EZ	56258	
351.00			340	331	-69.7	-69.7	☑	Reflex EZ	56317	
354.00			340.1	331.1	-69.5	-69.5	☑	Reflex EZ	56295	
357.00			340	331	-69.5	-69.5	☑	Reflex EZ	56203	
360.00			340.7	331.7	-69.6	-69.6	☑	Reflex EZ	56274	
363.00			340.5	331.5	-69.8	-69.8	☑	Reflex EZ	56247	
366.00			340.2	331.2	-69.8	-69.8	☑	Reflex EZ	56242	
369.00			340.3	331.3	-69.6	-69.6	☑	Reflex EZ	56286	
372.00			340.1	331.1	-69.8	-69.8	☑	Reflex EZ	56095	
375.00			341.4	332.4	-69.9	-69.9	☑	Reflex EZ	56157	
378.00			340.2	331.2	-69.7	-69.7	☑	Reflex EZ	56186	
381.00			340.2	331.2	-69.6	-69.6	☑	Reflex EZ	56129	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	52.60	**OB Overburden** Unknown overburden.							
52.60	57.00	**SED Sediment** White to creamy beige, vuggy bioclastic limestone.							
57.00	63.22	**SYENOP Syenite with Graphitic Overprinting** Pinkish-grey, medium grained fractured syenite. Good graphite overprinting as fracture filling veinlets. From 57 to 60.45m paleo-weathered syenite, very friable crumbly core. Brownish-grey with minor black sections.	N549057	57.00	58.00	1.00	0.81	0.27	
			N549058	58.00	59.00	1.00	1.14	0.06	
			N549059	59.00	60.00	1.00	0.23	0.03	
			N549060	60.00	61.00	1.00	1.3	0.03	
			N549061	61.00	62.10	1.10	4.59	0.03	
			N549062	62.10	63.22	1.12	3.69	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
63.22	83.60	**GRPBX Graphitic Breccia** Medium grey to dark grey brecciated syenite. Good to very good graphite as flooding in the matrix and as fracture filling graphite veinlets. Angular fragments from <1 to 20cm in size.	N549063	63.22	64.10	0.88	11	0.01	
			N549065	64.10	65.00	0.90	10.85	0.01	
			N549066	65.00	66.00	1.00	8.72	0.01	2.53
			N549067	66.00	67.00	1.00	7.94	0.01	2.48
			N549068	67.00	68.00	1.00	7.35	0.01	2.5
			N549069	68.00	69.00	1.00	9.88	0.01	2.56
			N549070	69.00	70.00	1.00	10.8	0.03	2.51
			N549072	70.00	71.00	1.00	6.09	0.09	
			N549073	71.00	72.00	1.00	11.2	0.03	
			N549074	72.00	73.00	1.00	8.77	0.02	
			N549076	73.00	74.00	1.00	13.85	0.01	
			N549077	74.00	75.00	1.00	11.05	0.01	
			N549078	75.00	76.00	1.00	5.7	0.02	
			N549079	76.00	77.00	1.00	7.82	0.02	
			N549080	77.00	78.00	1.00	8.62	0.01	
			N549081	78.00	79.00	1.00	8.62	0.01	
			N549082	79.00	80.00	1.00	7.46	0.02	
			N549083	80.00	81.00	1.00	8.71	0.02	
			N549085	81.00	81.90	0.90	6.84	0.04	
			N549086	81.90	82.80	0.90	7.73	0.02	
			N549087	82.80	83.60	0.80	5.56	0.03	
83.60	85.95	**FD Felsic Dyke** Light grey to greenish grey with a reddish tinge, fine-grained massive intermediate to felsic dyke. No visible graphite. Both contacts sharp at 80 dca.	N549088	83.60	84.75	1.15	0.01	0.03	
			N549089	84.75	85.95	1.20	0.01	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.95	96.15	**GRPBX Graphitic Breccia** Medium grey to dark grey, medium to coarse grained, brecciated syenite. Good to very good graphite as flooding in the matrix and as fracture filling graphite veinlets.	N549090	85.95	87.00	1.05	9.35	0.02	
			N549092	87.00	88.00	1.00	12.1	0.03	
			N549093	88.00	89.00	1.00	7.97	0.04	
			N549094	89.00	90.00	1.00	9.84	0.06	
			N549096	90.00	91.00	1.00	6.28	0.05	
			N549097	91.00	92.00	1.00	7.81	0.17	
			N549098	92.00	93.00	1.00	6.25	0.09	
			N549099	93.00	94.00	1.00	7.95	0.07	
			N549100	94.00	95.10	1.10	10.35	0.17	
			N549101	95.10	96.15	1.05	10.35	0.1	
96.15	99.11	**SYENOP Syenite with Graphitic Overprinting** Same rock type as in the unit above; coarse, massive syenite with moderate to locally good fracture filling graphite.	N549102	96.15	97.10	0.95	1.29	0.15	
			N549103	97.10	98.10	1.00	5.38	0.15	
			N549105	98.10	99.11	1.01	4.97	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
99.11	134.89	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained, brecciated syenite. Angular fragments range from <1 to 40cm in graphite flooded matrix. Good to locally very good graphite as graphite veins 2-3cm in width. From 115 to 122m reddish-grey, brecciated and fractured syenite with fracture filling graphite veinlets. From 115 to 116.3m fracture subparallel to ca.	N549106	99.11	100.00	0.89	9.03	0.27	
			N549107	100.00	101.00	1.00	9.85	0.13	
			N549108	101.00	102.00	1.00	8.77	0.27	
			N549109	102.00	103.00	1.00	9.29	0.21	
			N549110	103.00	104.00	1.00	5.19	0.1	
			N549112	104.00	105.00	1.00	9.04	0.18	
			N549113	105.00	106.00	1.00	7.67	0.14	
			N549114	106.00	107.00	1.00	7.53	0.16	
			N549116	107.00	108.00	1.00	11.9	0.2	
			N549117	108.00	109.00	1.00	6.32	0.15	
			N549118	109.00	110.00	1.00	9.36	0.16	
			N549119	110.00	111.00	1.00	8.06	0.22	
			N549120	111.00	112.00	1.00	8.31	0.3	
			N549121	112.00	113.00	1.00	11.05	0.18	
			N549122	113.00	114.00	1.00	7.95	0.19	
			N549123	114.00	115.00	1.00	10.8	0.08	
			N549125	115.00	116.00	1.00	5.27	0.15	
			N549126	116.00	117.00	1.00	3.8	0.07	
			N549127	117.00	118.00	1.00	3.82	0.29	
			N549128	118.00	119.00	1.00	3.54	0.11	
			N549129	119.00	120.00	1.00	3.44	0.11	
			N549130	120.00	121.00	1.00	4.47	0.11	
			N549132	121.00	122.00	1.00	4.75	0.07	
			N549133	122.00	123.00	1.00	2.92	0.15	
			N549134	123.00	124.00	1.00	8.59	0.15	
			N549136	124.00	125.00	1.00	11.5	0.13	
			N549137	125.00	126.00	1.00	9.05	0.18	
			N549138	126.00	127.00	1.00	3.75	0.62	
			N549139	127.00	128.00	1.00	10.9	0.24	2.53
			N549140	128.00	129.00	1.00	7.43	0.26	2.59
			N549141	129.00	130.00	1.00	7.87	0.26	2.61
			N549142	130.00	131.00	1.00	8.95	0.2	2.57
			N549143	131.00	132.00	1.00	8.97	0.15	2.6
			N549145	132.00	133.00	1.00	7.8	0.23	
			N549146	133.00	134.00	1.00	6.62	0.26	
			N549147	134.00	134.89	0.89	8.26	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
134.89	136.80	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, medium to coarse grained massive syenite. Weak graphite overprinting as fracture filling graphite veinlets from 136.5 to 136.8m. Both contacts sharp at 75 dca.	N549148	134.89	135.90	1.01	0.37	0.37	
			N549149	135.90	136.80	0.90	1.36	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
136.80	183.76	**GRPBX Graphitic Breccia** Dark grey, medium to coarse grained brecciated syenite. Well mineralized as graphite flooding in the matrix and a fracture filling graphite veins and veinlets. Good to locally very good graphite content. Mostly syenite fragments 1-50cm in size; few mafic dykes <50cm thick at 159 and 166.5m.	N549150	136.80	138.00	1.20	3.88	0.38	
			N549152	138.00	139.00	1.00	8	0.31	
			N549153	139.00	140.00	1.00	5.65	0.29	
			N549154	140.00	141.00	1.00	9.88	0.29	
			N549156	141.00	142.00	1.00	7.93	0.29	
			N549157	142.00	143.00	1.00	10.35	0.25	
			N549158	143.00	144.00	1.00	8.15	0.39	
			N549159	144.00	145.00	1.00	10.7	0.33	
			N549160	145.00	146.00	1.00	9.7	0.41	
			N549161	146.00	147.00	1.00	9.4	0.41	
			N549162	147.00	148.00	1.00	11.95	0.32	
			N549163	148.00	149.00	1.00	8.77	0.39	
			N549165	149.00	150.00	1.00	6.93	0.35	
			N549166	150.00	151.00	1.00	10.1	0.37	
			N549167	151.00	152.00	1.00	4.99	0.31	
			N549168	152.00	153.00	1.00	11	0.39	
			N549169	153.00	154.00	1.00	6.25	0.3	
			N549170	154.00	155.00	1.00	9.14	0.38	
			N549172	155.00	156.00	1.00	5.1	0.37	
			N549173	156.00	157.00	1.00	3.76	0.33	
			N549174	157.00	158.00	1.00	10	0.3	
			N549176	158.00	159.00	1.00	4.84	0.35	
			N549177	159.00	160.00	1.00	8.88	0.28	
			N549178	160.00	161.00	1.00	9.79	0.29	
			N549179	161.00	162.00	1.00	10.5	0.32	
			N549180	162.00	163.00	1.00	9.37	0.3	
			N549181	163.00	164.00	1.00	8.72	0.29	
			N549182	164.00	165.00	1.00	8.89	0.32	
			N549183	165.00	166.00	1.00	5.92	0.28	
			N549185	166.00	167.00	1.00	4.3	0.19	
			N549186	167.00	168.00	1.00	5.54	0.3	
			N549187	168.00	169.00	1.00	7.68	0.35	
			N549188	169.00	170.00	1.00	10.7	0.28	
			N549189	170.00	171.00	1.00	9.79	0.35	
			N549190	171.00	172.00	1.00	10.5	0.26	
			N549192	172.00	173.00	1.00	6.43	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N549193	173.00	174.00	1.00	8.51	0.3	
			N549194	174.00	175.00	1.00	9.41	0.35	
			N549196	175.00	176.00	1.00	9.59	0.31	
			N549197	176.00	177.00	1.00	12.5	0.27	
			N549198	177.00	178.00	1.00	6.41	0.34	
			N549199	178.00	179.00	1.00	7.37	0.36	
			N549200	179.00	180.00	1.00	6.94	0.27	
			N549201	180.00	181.00	1.00	5.21	0.31	
			N549202	181.00	182.00	1.00	8.48	0.36	
			N549203	182.00	182.90	0.90	8.33	0.35	
			N549205	182.90	183.76	0.86	9.47	0.37	
183.76	185.47	**SYENOP Syenite with Graphitic Overprinting** Dark grey to brownish-grey, medium grained massive syenite. Weak graphite overprinting as few fracture filling graphite veinlets from 184 to 185m. Upper contact sharp at 75 dca. Lower contact sharp at 65 dca.	N549206	183.76	184.60	0.84	2.44	0.41	
			N549207	184.60	185.47	0.87	2.76	0.34	
185.47	187.70	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, medium grained, massive intrusive sill, "gabbroic texture". No visible graphite. Lower contact sharp at 90 dca.	N549208	185.47	186.60	1.13	0.06	0.33	
			N549209	186.60	187.74	1.14	0.08	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
187.70	194.25	**SYENOP Syenite with Graphitic Overprinting** Dark grey to brownish-grey, massive syenite. Moderate graphite overprinting as few small graphitic breccia and fractured sections 30 to 50cm long sections that make up 15% of this unit from 188 to 189m and from 189.5 to 192m.	N549210	187.74	188.80	1.06	4.23	0.34	
			N549212	188.80	189.90	1.10	6.48	0.29	
			N549213	189.90	191.00	1.10	3.52	0.37	
			N549214	191.00	192.10	1.10	5.7	0.25	
			N549216	192.10	193.20	1.10	3.65	0.24	
			N549217	193.20	194.25	1.05	0.5	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
194.25	234.06	**GRPBX Graphitic Breccia** Dark grey brecciated syenite, fracture filling graphite veinlets and graphite flooding in the matrix. Very good graphite content throughout. Well mineralized section.	N549218	194.25	195.10	0.85	8.92	0.23	
			N549219	195.10	196.00	0.90	7.59	0.19	
			N549220	196.00	196.93	0.93	4.73	0.4	
			N549221	196.93	197.80	0.87	0.65	0.04	
			N549222	197.80	199.00	1.20	11.6	0.32	
			N549223	199.00	200.00	1.00	6.2	0.36	
			N549225	200.00	201.00	1.00	7.45	0.33	
			N549226	201.00	202.00	1.00	9.52	0.31	
			N549227	202.00	203.00	1.00	13.5	0.28	
			N549228	203.00	204.00	1.00	13.4	0.3	
			N549229	204.00	205.00	1.00	12.2	0.23	
			N549230	205.00	206.00	1.00	10.6	0.37	
			N549232	206.00	207.00	1.00	8.23	0.3	
			N549233	207.00	208.00	1.00	5.69	0.37	
			N549234	208.00	209.00	1.00	8.62	0.26	
			N549236	209.00	210.00	1.00	2.41	0.39	
			N549237	210.00	211.00	1.00	11.8	0.52	
			N549238	211.00	212.00	1.00	4.98	0.36	
			N549239	212.00	213.00	1.00	10.25	0.33	
			N549240	213.00	214.00	1.00	6.16	0.29	
			N549241	214.00	215.00	1.00	6.71	0.37	
			N549242	215.00	216.00	1.00	7.86	0.31	
			N549243	216.00	217.00	1.00	5.37	0.3	
			N549245	217.00	218.00	1.00	9.06	0.28	
			N549246	218.00	219.00	1.00	11.8	0.26	
			N549247	219.00	220.00	1.00	9.78	0.35	
			N549248	220.00	221.00	1.00	5.74	0.32	
			N549249	221.00	222.00	1.00	10.5	0.32	
			N549250	222.00	223.00	1.00	6.48	0.37	
			N549252	223.00	223.80	0.80	2.31	0.34	
			N549253	223.80	224.75	0.95	3.2	0.03	
			N549254	224.75	225.90	1.15	3.68	0.41	
			N549256	225.90	227.00	1.10	11.2	0.38	
			N549257	227.00	228.00	1.00	3.6	0.3	
			N549258	228.00	229.00	1.00	5.91	0.27	
			N549259	229.00	230.00	1.00	1.7	0.38	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N549260	230.00	231.00	1.00	4.14	0.59	
			N549261	231.00	232.00	1.00	4.8	0.27	
			N549262	232.00	233.00	1.00	4.28	0.37	
			N549263	233.00	234.06	1.06	11.6	0.23	
234.06	241.09	**SYENOP Syenite with Graphitic Overprinting** Dark grey to purple grey, massive coarse syenite. Locally moderate graphite overprinting as fracture filling veinlets from 237 to 238m.	N549265	234.06	235.00	0.94	1.33	0.34	
			N549266	235.00	236.00	1.00	1.07	0.42	
			N549267	236.00	237.00	1.00	1.15	0.31	
			N549268	237.00	238.00	1.00	5.25	0.18	
			N549269	238.00	239.00	1.00	1.59	0.16	
			N549270	239.00	240.00	1.00	1.47	0.18	
			N549272	240.00	241.09	1.09	0.99	0.34	
241.09	242.25	**GRPBX Graphitic Breccia** Dark grey, medium grained, fractured syenite. Good graphite content as mainly fracture filling veinlets.	N549273	241.09	242.25	1.16	7.35	0.33	
242.25	249.65	**SYENOP Syenite with Graphitic Overprinting** Gray with a light pinkish hue, coarse, massive syenite. Locally good fracture filling graphite from 243.8 to 245m. The rest of this unit has no visible graphite.	N549274	242.25	243.20	0.95	1.13	0.29	
			N549276	243.20	244.10	0.90	2.69	0.32	
			N549277	244.10	245.00	0.90	12.6	0.27	
			N549278	245.00	246.00	1.00	0.73	0.38	
			N549279	246.00	247.00	1.00	0.71	0.34	
			N549280	247.00	248.00	1.00	0.35	0.31	
			N549281	248.00	248.80	0.80	0.5	0.37	
			N549282	248.80	249.65	0.85	0.64	0.4	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
249.65	252.57	**GRPBX Graphitic Breccia** Dark grey brecciated syenite. Good fracture filling graphite and as flooding in the matrix. 15cm mafic dyke at the lower contact.	N549283	249.65	250.60	0.95	10.1	0.29	
			N549285	250.60	251.60	1.00	7.71	0.28	
			N549286	251.60	252.57	0.97	10.7	0.14	
252.57	255.12	**SYENOP Syenite with Graphitic Overprinting** Medium to dark grey, massive syenite, medium to coarse grained. Weak to locally moderate graphite overprinting as fracture filling veinlets at 253.6 and 254.5m.	N549287	252.57	253.40	0.83	2.89	0.37	
			N549288	253.40	254.30	0.90	3.94	0.29	
			N549289	254.30	255.12	0.82	3.56	0.33	
255.12	258.03	**GRPBX Graphitic Breccia** Dark grey, fractured and locally brecciated coarse syenite. Good graphite as fracture filling veinlets and matrix flooding.	N549290	255.12	256.00	0.88	10.1	0.25	
			N549292	256.00	257.00	1.00	2.71	0.72	
			N549293	257.00	258.03	1.03	9.77	0.39	
258.03	261.81	**SYEN Syenite** Light to medium grey, massive, coarse syenite. No visible graphite.	N549294	258.03	259.00	0.97	1.08	0.29	
			N549296	259.00	260.90	1.90	0.33	0.23	
			N549297	260.90	261.81	0.91	0.35	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
261.81	265.46	**GRPBX Graphitic Breccia** Dark grey, medium grained brecciated syenite. Good fracture filling graphite and minor graphite flooding in the matrix.	N549298	261.81	262.53	0.72	6.26	0.37	
			N549299	262.53	263.26	0.73	3.14	0.82	
			N549300	263.26	264.30	1.04	4.32	0.24	
			N549301	264.30	265.46	1.16	9.68	0.27	
265.46	267.79	**SYEN Syenite** Medium grey, medium grained , massive syenite. No visible graphite.	N549302	265.46	266.60	1.14	0.31	0.43	
			N549303	266.60	267.79	1.19	1.2	0.46	
267.79	270.63	**GRPBX Graphitic Breccia** Light to medium grey, medium to coarse grained brecciated syenite. Good fracture filling graphite veinlets. Both contacts sharp at 80 dca.	N549305	267.79	268.70	0.91	4.45	0.4	
			N549306	268.70	269.70	1.00	4.26	0.26	
			N549307	269.70	270.63	0.93	10	0.22	
270.63	272.32	**SYEN Syenite** Medium grey to pinkish-grey, massive, coarse grained syenite. No visible graphite.	N549308	270.63	271.50	0.87	0.74	0.36	
			N549309	271.50	272.32	0.82	0.34	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
272.32 -	281.77	**GRPBX Graphitic Breccia** Medium to dark grey, medium to coarse grained, brecciated syenite. Good graphite as fracture filling veinlets and veins and as matrix flooding. Lower contact sharp at 90 dca.	N549310	272.32	273.20	0.88	9.68	0.29	
			N549312	273.20	274.10	0.90	12.6	0.23	
			N549313	274.10	275.00	0.90	6.04	0.25	
			N549314	275.00	276.00	1.00	1.79	0.33	
			N549316	276.00	277.00	1.00	4.75	0.31	
			N549317	277.00	278.00	1.00	7.88	0.42	
			N549318	278.00	279.00	1.00	9.82	0.29	
			N549319	279.00	280.00	1.00	6.35	0.21	
			N549320	280.00	280.90	0.90	8.01	0.24	
			N549321	280.90	281.77	0.87	6.8	0.23	
281.77 -	287.70	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium to coarse grained massive syenite. Weak graphite overprinting as fracture filling veinlets from 284 to 284.6m. Lower contact sharp at 70 dca.	N549322	281.77	282.90	1.13	0.42	0.37	
			N549323	282.90	284.00	1.10	0.81	0.35	
			N549325	284.00	285.00	1.00	3.99	0.35	2.64
			N549326	285.00	285.90	0.90	0.54	0.3	2.64
			N549327	285.90	286.80	0.90	0.42	0.17	2.61
			N549328	286.80	287.70	0.90	0.32	0.19	2.62
287.70 -	289.96	**GRPBX Graphitic Breccia** Light grey, coarse grained fractured syenite. Good graphite as matrix flooding and semi-massive veins at 288.4 and 289 to 289.96m. Lower contact sharp at 65 dca.	N549329	287.70	288.90	1.20	6.62	0.21	2.59
			N549330	288.90	289.96	1.06	10.4	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
289.96	292.67	**SYEN Syenite** Light grey to pinkish-grey, medium grained, massive syenite. No visible graphite.	N549332	289.96	290.90	0.94	0.46	0.33	
			N549333	290.90	291.80	0.90	0.73	0.24	
			N549334	291.80	292.67	0.87	0.9	0.27	
292.67	293.32	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. No visible graphite. Both contacts sharp at 90 dca.	N549336	292.67	293.32	0.65	0.03	0.07	
293.32	295.10	**GRPBX Graphitic Breccia** Dark grey, medium grained fractured syenite. Good graphite as fracture filling veinlets. Both contacts sharp at 90 dca.	N549337	293.32	294.20	0.88	4.97	0.27	
			N549338	294.20	295.10	0.90	9.05	0.27	
295.10	297.90	**SYEN Syenite** Medium grey to light pink, massive , coarse grained syenite. No visible graphite.	N549339	295.10	296.00	0.90	0.49	0.31	
			N549340	296.00	297.00	1.00	0.36	0.35	
			N549341	297.00	297.90	0.90	0.65	0.35	
297.90	300.47	**ID Intermediate Dyke** Light to medium grey to greenish-grey, very fine to fine grained, mafic to intermediate dyke. Upper contact irregular. Lower contact sharp at 70 dca. No visible graphite.	N549342	297.90	299.20	1.30	0.02	0.31	
			N549343	299.20	300.47	1.27	0.02	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
300.47	306.26	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained, massive syenite. Very weak graphite overprinting as odd graphite veinlet. Moderate fracturing, blocky core from 301.8 to 302.4. Lower contact sharp at 90 dca.	N549345	300.47	301.40	0.93	0.7	0.36	
			N549346	301.40	302.30	0.90	2.27	0.26	
			N549347	302.30	303.30	1.00	2.12	0.28	
			N549348	303.30	304.30	1.00	0.97	0.38	
			N549349	304.30	305.30	1.00	0.64	0.3	
			N549350	305.30	306.26	0.96	0.28	0.33	
306.26	308.77	**GRPBX Graphitic Breccia** Dark grey, medium grained, brecciated syenite. Well mineralized with graphite as fracture filling veinlets and veins from upper contact to 308.15m. Lower contact sharp at 90 dca.	N549352	306.26	307.15	0.89	8.93	0.31	
			N549353	307.15	308.00	0.85	10	0.33	
			N549354	308.00	308.77	0.77	4	0.29	
308.77	319.28	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, coarse, massive syenite. Weak, localized graphite overprinting as hairline fracture filling graphite veinlets from 3313.6 to 314.3m. Fractured core, pebble size grounded fragments from 310.9 to 311.3m.	N549356	308.77	309.80	1.03	0.1	0.32	
			N549357	309.80	310.90	1.10	0.08	0.44	
			N549358	310.90	312.00	1.10	0.45	0.4	
			N549359	312.00	313.00	1.00	0.1	0.26	
			N549360	313.00	314.00	1.00	1.09	0.3	
			N549361	314.00	315.00	1.00	1.81	0.38	
			N549362	315.00	316.00	1.00	0.64	0.38	
			N549363	316.00	317.00	1.00	0.58	0.41	
			N549365	317.00	318.15	1.15	0.68	0.34	
			N549366	318.15	319.28	1.13	0.79	0.41	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
319.28	325.93	**GRPBX Graphitic Breccia** Medium to dark grey, coarse brecciated syenite. Good graphite as fracture filling veins and veinlets from upper contact to 322.2 and as graphite flooding in the matrix from 323 to 324m.	N549367	319.28	320.30	1.02	10.4	0.24	
			N549368	320.30	321.30	1.00	7.46	0.25	
			N549369	321.30	322.30	1.00	1.05	0.21	
			N549370	322.30	323.20	0.90	2.85	0.37	
			N549372	323.20	324.10	0.90	8.38	0.4	
			N549373	324.10	325.00	0.90	4.49	0.39	
			N549374	325.00	325.93	0.93	2.53	0.25	
325.93	330.25	**SYENOP Syenite with Graphitic Overprinting**	N549376	325.93	326.90	0.97	0.75	0.19	
			N549377	326.90	328.00	1.10	0.3	0.26	
			N549378	328.00	329.10	1.10	3.03	0.36	
			N549379	329.10	330.25	1.15	4.9	0.38	
330.25	338.95	**MD Mafic Dyke** Light to medium gray to greenish-grey, very fine to fine grained, massive mafic to intermediate dyke. No visible graphite. Upper contact sharp at 75 dca. Lower contact sharp at 50 dca.	N549380	330.25	331.20	0.95	0.01	0.04	
			N549381	331.20	332.10	0.90	0.03	0.05	
			N549382	332.10	333.00	0.90	0.03	0.04	
			N549383	333.00	334.00	1.00	0.03	0.07	
			N549385	334.00	335.00	1.00	0.04	0.06	
			N549386	335.00	336.00	1.00	0.07	0.05	
			N549387	336.00	337.00	1.00	0.02	0.05	
			N549388	337.00	338.00	1.00	0.03	0.03	
			N549389	338.00	338.95	0.95	0.11	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
338.95	343.50	**GRPBX Graphitic Breccia** Dark grey, coarse brecciated syenite. Well mineralized graphitic breccia with graphite flooding in the matrix and as fracture filling veinlets. Lower contact sharp at 45 dca.	N549390	338.95	340.00	1.05	13.65	0.4	
			N549392	340.00	341.00	1.00	4.75	0.28	
			N549393	341.00	341.90	0.90	4.66	0.28	
			N549394	341.90	342.75	0.85	6.61	0.54	
			N549396	342.75	343.50	0.75	5.85	0.45	
343.50	345.90	**SYEN Syenite** Light grey, coarse, massive weakly foliated syenite. No visible graphite. Lower contact sharp at 90 dca.	N549397	343.50	344.70	1.20	0.47	0.35	
			N549398	344.70	345.90	1.20	0.28	0.37	
345.90	361.30	**GRPBX Graphitic Breccia** Medium to dark grey brecciated coarse syenite. Good graphite as graphite flooding in the matrix and as fracture filling veinlets. From 357.35 to 360.45m mainly massive syenite with minor graphite overprinting a fracture filling veinlets from 358.8 to 358.9m. Well mineralized from 360.45 to the lower contact. Lower contact sharp at 70 dca.	N549399	345.90	347.00	1.10	6.66	0.37	
			N549400	347.00	348.00	1.00	4.79	0.11	
			N549401	348.00	349.00	1.00	3.94	0.25	
			N549402	349.00	350.00	1.00	2.75	0.29	
			N549403	350.00	351.00	1.00	9.47	0.39	
			N549405	351.00	352.00	1.00	6.23	0.31	
			N549406	352.00	353.00	1.00	3.06	0.46	
			N549407	353.00	354.00	1.00	6.3	0.31	
			N549408	354.00	355.00	1.00	1.92	0.37	
			N549409	355.00	356.00	1.00	7.32	0.34	
			N549410	356.00	357.00	1.00	10.9	0.38	
			N549412	357.00	358.00	1.00	2.87	0.37	
			N549413	358.00	359.10	1.10	2.4	0.26	
			N549414	359.10	360.20	1.10	0.74	0.2	
			N549416	360.20	361.30	1.10	12.3	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
361.30	364.87	**ID Intermediate Dyke** Light grey with a greenish and pinkish tinge, fine grained, massive intermediate to felsic dyke. No visible graphite. Lower contact sharp at 85 dca.	N549417	361.30	362.20	0.90	0.01	0.04	
			N549418	362.20	363.10	0.90	0.01	0.07	
			N549419	363.10	364.00	0.90	0.02	0.12	
			N549420	364.00	364.87	0.87	0.02	0.15	
364.87	368.70	**GRPBX Graphitic Breccia** Dark grey to brownish-grey, brecciated syenite. Well mineralized with graphite as fracture filling veinlets and flooding in the matrix. Cut by two 20-25cm felsic and intermediate dykes at 366.7 and 367.2m respectively.	N549421	364.87	366.00	1.13	5.66	0.12	
			N549422	366.00	367.00	1.00	5.7	0.44	
			N549423	367.00	367.90	0.90	6.24	0.25	
			N549425	367.90	368.70	0.80	7.82	0.44	
368.70	373.48	**FDOP Felsic Dyke with Graphitic Overprinting** Dark grey to locally pinkish-grey, fine grained, porphyritic felsic dyke. Minor graphite as fine grained graphite flooding from 371.6 to 371.85m probably part of the breccia. 1cm fault gouge at 371.65. Strong fracturing, blocky core from 369.8 to 370.6. Minor fault gouge and carbonate veining at 370.4m. Lower contact sharp at 90 dca.	N549426	368.70	369.80	1.10	0.78	0.2	
			N549427	369.80	370.70	0.90	1.53	0.3	
			N549428	370.70	371.60	0.90	1.56	0.13	
			N549429	371.60	372.50	0.90	6.56	0.05	
			N549430	372.50	373.48	0.98	0.08	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
373.48	381.00	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, medium grained, massive very hard, "gabbroic texture", intrusive sill. No visible graphite. EOH 381.0m	N549432	373.48	374.30	0.82	0.03	0.04	
			N549433	374.30	375.10	0.80	0.02	0.05	
			N549434	375.10	376.00	0.90	0.02	0.02	
			N549436	376.00	377.00	1.00	0.01	0.01	
			N549437	377.00	378.00	1.00	0.01	0.01	
			N549438	378.00	379.00	1.00	0.02	0.02	
			N549439	379.00	380.00	1.00	0.03	0.02	
			N549440	380.00	381.00	1.00	0.01	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	411.00	18/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545680.8	682648.2			Reflex APS	22/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	125.00	300.70		-50.70	Chibougamau Diamond Drilling	24/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	336	*Casing Pulled*	*Casing (1)*	75.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To help define the boundry of the West Pipe.	Graphitic breccia was intersected at 73.00m, directly below the sediment cover. The majority of rock from 73.00m to 284.41m is graphitic breccia with smaller intervals of over printed syenite and small lamprophyre dykes. A large unmineralized syenite sill unit was intersected from 299.90m to 402.83m. The hole was shut down at 411.00m in unmineralized syenite sill. The assays from 73.00m to 297.00m averaged 2.35% Cg over 223.00m; within this intersection a higher grade graphite zone from 76.00m to 119.00m averaged 3.70% Cg over 43.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
357.00			309.4	300.4	-49.4	-49.4	☑	Reflex EZ	56002	
360.00			309.8	300.8	-49.4	-49.4	☑	Reflex EZ	56099	
363.00			309.3	300.3	-49.4	-49.4	☑	Reflex EZ	55836	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
366.00			308.2	299.2	-49.3	-49.3	☑	Reflex EZ	55919	
369.00			308.6	299.6	-49.4	-49.4	☑	Reflex EZ	55440	
372.00			308.8	299.8	-49.3	-49.3	☑	Reflex EZ	55865	
375.00			309.3	300.3	-49.4	-49.4	☑	Reflex EZ	55809	
378.00			309	300	-49.4	-49.4	☑	Reflex EZ	55824	
381.00			309	300	-49.5	-49.5	☑	Reflex EZ	55963	
384.00			308.1	299.1	-49.4	-49.4	☑	Reflex EZ	55970	
387.00			309.7	300.7	-49.3	-49.3	☑	Reflex EZ	56076	
390.00			309.6	300.6	-49.5	-49.5	☑	Reflex EZ	56157	
393.00			309.4	300.4	-49.5	-49.5	☑	Reflex EZ	56154	
396.00			309.1	300.1	-49.4	-49.4	☑	Reflex EZ	56091	
399.00			310	301	-49.5	-49.5	☑	Reflex EZ	55471	
402.00			310.2	301.2	-49.5	-49.5	☑	Reflex EZ	55841	
405.00			309.5	300.5	-49.5	-49.5	☑	Reflex EZ	56182	
408.00			310.1	301.1	-49.6	-49.6	☑	Reflex EZ	56138	
411.00			310.1	301.1	-49.6	-49.6	☑	Reflex EZ	56196	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	70.80	**OB Overburden**							
70.80	73.00	**SED Sediment** Grey to pale grey/white very fine grained limestone. Lower contact undefined (unconformity).							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
73.00	- 125.22	**GRPBX Graphitic Breccia** Dark grey matrix with white and black, pink/orange, sub-angular to rounded fragments. The matrix is high in graphite and some of the larger fragments also have graphite fracture filling. There are thin fractures filled with soft white to pale green chlorite? material. HCl does not react with this substance. 73.00-78.00m There seems to be little or no conductivity in this area of the breccia and although there is nothing setting it apart from the rest of the unit the rest of the unit has a much higher conductivity. 117.40-125.22 The fragments in this area become more angular and seem to be more insitu than higher in the unit. This is still breccia but is becoming more of a fracture filling between fragments. Lower contact is sharp and at 135dca.	N549441	73.00	74.00	1.00	0.79	0.03	
			N549442	74.00	75.00	1.00	0.73	0.01	
			N549443	75.00	76.00	1.00	2.77	0.03	
			N549445	76.00	77.00	1.00	4.58	0.04	
			N549446	77.00	78.00	1.00	2.08	0.04	
			N549447	78.00	79.00	1.00	5.66	0.08	
			N549448	79.00	80.00	1.00	3.35	0.02	
			N549449	80.00	81.00	1.00	4.9	0.03	
			N549450	81.00	82.00	1.00	3.58	0.03	
			N549451	81.00	82.00	1.00	3.46	0.03	
			N549452	82.00	83.00	1.00	5.44	0.21	
			N549453	83.00	84.00	1.00	4.13	0.04	
			N549454	84.00	85.00	1.00	2.89	0.04	
			N549456	85.00	86.00	1.00	1.5	0.03	
			N549457	86.00	87.00	1.00	0.92	0.02	
			N549458	87.00	88.00	1.00	0.83	0.04	
			N549459	88.00	89.00	1.00	3.18	0.02	
			N549460	89.00	90.00	1.00	1.95	0.03	
			N549461	90.00	91.00	1.00	3.18	0.02	
			N549462	91.00	92.00	1.00	3.91	0.02	
			N549463	92.00	93.00	1.00	5.87	0.01	
			N549465	93.00	94.00	1.00	3.72	0.01	
			N549466	94.00	95.00	1.00	3.01	0.05	
			N549467	95.00	96.00	1.00	3.7	0.03	
			N549468	96.00	97.00	1.00	2.86	0.08	
			N549469	97.00	98.00	1.00	2.94	0.03	
			N549471	98.00	99.00	1.00	3.51	0.03	
			N549470	98.00	99.00	1.00	3.53	0.03	
			N549472	99.00	100.00	1.00	5.29	0.04	
			N549473	100.00	101.00	1.00	6.22	0.02	
			N549474	101.00	102.00	1.00	2.48	0.03	
			N549476	102.00	103.00	1.00	5.7	0.04	
			N549477	103.00	104.00	1.00	2.67	0.07	
			N549478	104.00	105.00	1.00	5.7	0.02	
			N549479	105.00	106.00	1.00	4.28	0.03	
			N549480	106.00	107.00	1.00	6.22	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N549481	107.00	108.00	1.00	5.33	0.03	
			N549482	108.00	109.00	1.00	1.87	0.08	
			N549483	109.00	110.00	1.00	3.45	0.05	
			N549485	110.00	111.00	1.00	5.11	0.05	
			N549486	111.00	112.00	1.00	4.43	0.03	
			N549487	112.00	113.00	1.00	3.57	0.04	
			N549488	113.00	114.00	1.00	2.38	0.06	
			N549489	114.00	115.00	1.00	2.73	0.04	
			N549490	115.00	116.00	1.00	2.58	0.2	
			N549491	115.00	116.00	1.00	2.65	0.22	
			N549492	116.00	117.00	1.00	4.25	0.11	
			N549493	117.00	118.00	1.00	3.68	0.05	
			N549494	118.00	119.00	1.00	3.35	0.13	
			N549496	119.00	120.00	1.00	0.3	0.22	
			N549497	120.00	121.00	1.00	0.31	0.23	
			N549498	121.00	122.00	1.00	1.06	0.26	
			N549499	122.00	123.00	1.00	3.71	0.16	
			N549500	123.00	124.00	1.00	2	0.15	
			N549501	124.00	125.22	1.22	2.95	0.16	
125.22	135.10	**SYEN Syenite**							
		Grey to pink/orange, fine grained. Mild to moderate graphite fracture filling. 127.00-131.28m this area of the unit is very fractured. Lower contact is sharp and at ~42dca.	N549502	125.22	126.00	0.78	0.1	0.2	
			N549503	126.00	127.00	1.00	1.53	0.3	
			N549505	127.00	128.00	1.00	0.22	0.12	
			N549506	128.00	129.00	1.00	0.13	0.08	
			N549507	129.00	130.00	1.00	0.34	0.09	
			N549508	130.00	131.28	1.28	0.42	0.07	
			N549509	131.28	132.00	0.72	0.57	0.14	
			N549511	132.00	133.00	1.00	0.76	0.07	
			N549510	132.00	133.00	1.00	0.8	0.08	
			N549512	133.00	134.00	1.00	0.29	0.17	
			N549513	134.00	135.10	1.10	1.94	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
135.10	144.62	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments surrounded by a graphite rich matrix. Some areas are dominated by larger +30cm fragments with smaller areas 2-10cm wide of matrix and smaller fragments. There are even some areas that are more like a strong fracture filling as opposed to a true breccia. Overall this unit is ~30% larger fragments. 135.1-136.79 fragments in this area are chlorite and biotite rich. Lower contact irregular at 116dca.	N549514	135.10	136.00	0.90	3.73	0.13	
			N549516	136.00	137.00	1.00	6.42	0.23	
			N549517	137.00	138.00	1.00	1.1	0.32	
			N549518	138.00	139.00	1.00	3.16	0.32	
			N549519	139.00	140.00	1.00	3.1	0.23	
			N549520	140.00	141.00	1.00	0.52	0.07	
			N549521	141.00	142.00	1.00	1.21	0.16	
			N549522	142.00	143.00	1.00	1.98	0.22	
			N549523	143.00	144.00	1.00	1.24	0.29	
			N549525	144.00	144.62	0.62	4.05	0.43	
144.62	152.50	**GRDROP Granodiorite with Graphitic Overprinting** Black and white, medium grained. There is biotite present in this unit. 148.30-149.10m small localized areas of graphite rich breccia ranging in width from 5-15cm. 151.63-151.74m Porphyritic Intermediate Dyke at 61dca. Lower contact sharp at ~90dca.	N549526	144.62	145.00	0.38	1.45	0.38	
			N549527	145.00	146.00	1.00	0.33	0.21	
			N549528	146.00	147.00	1.00	0.14	0.19	
			N549529	147.00	148.00	1.00	2.68	0.34	
			N549531	148.00	149.00	1.00	3.81	0.62	
			N549530	148.00	149.00	1.00	3.93	0.62	
			N549532	149.00	150.00	1.00	1.45	0.33	
			N549533	150.00	151.00	1.00	0.85	0.25	
			N549534	151.00	151.75	0.75	1.46	0.12	
			N549536	151.75	152.50	0.75	1.02	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
152.50	153.82	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments in a graphite rich matrix. There seems to be a dull green chlorite alteration throughout this unit. There is a definite matrix between fragments; some of the larger fragments show some sign of a fabric possibly of the original rock? Lower contact sharp at 44dca.	N549537	152.50	153.00	0.50	3.81	0.32	
			N549538	153.00	153.82	0.82	4.86	0.35	
153.82	158.39	**IDP Intermediate Dike (Porphyritic)** Dark grey to black fine grained rock with white, pink and green phenocrysts. The green, possibly olivine phenocrysts have a magnetic halo around them. 157.55-158.05 Hematite staining. Lower contact irregular at 42dca.	N549539	153.82	155.00	1.18	0.03	0.08	
			N549540	155.00	156.00	1.00	0.03	0.06	
			N549541	156.00	157.00	1.00	0.04	0.08	
			N549542	157.00	157.70	0.70	0.01	0.1	
			N549543	157.70	158.39	0.69	0.01	0.15	
158.39	163.04	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine grained with some minor localized graphite rich breccia. There is moderate carbonate along thin fractures. 162.66-163.04m Porphyritic Intermediate Dyke with carbonate in fractures. Upper Contact @ 27dca/LC @ 58dca.	N549545	158.39	159.00	0.61	0.71	0.22	
			N549546	159.00	160.00	1.00	1.39	0.17	
			N549547	160.00	161.00	1.00	1.12	0.17	
			N549548	161.00	162.00	1.00	0.97	0.17	
			N549549	162.00	163.04	1.04	0.44	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
163.04	174.30	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments separated by a graphite rich matrix. Fragments are mostly between 1-10cm with some larger fragments up to 20cm. Weak chlorite alteration. 168.00-169.00m this area is more of an intense fracture filling of a syenite, possibly a large fragment? 170.15-170.75m there is more chlorite and biotite alteration in this area than the rest of the unit. Lower contact sharp at 110dca.	N549551	163.04	164.00	0.96	2.7	0.37	
			N549550	163.04	164.00	0.96	2.58	0.35	
			N549552	164.00	165.00	1.00	2.09	0.45	
			N549553	165.00	166.00	1.00	0.3	0.21	
			N549554	166.00	167.00	1.00	5.33	0.69	
			N549556	167.00	168.00	1.00	5.19	0.66	
			N549557	168.00	169.00	1.00	1.86	0.51	
			N549558	169.00	170.00	1.00	2.2	0.41	
			N549559	170.00	171.00	1.00	1.41	0.29	
			N549560	171.00	172.00	1.00	2.95	0.36	
			N549561	172.00	173.00	1.00	0.89	0.15	
			N549562	173.00	173.65	0.65	4.25	0.28	
			N549563	173.65	174.30	0.65	3.48	0.24	
174.30	177.29	**SYEN Syenite** Grey and pink fine to medium grained. This unit has a distinct gneissic banding with alternating lighter pink and darker grey bands. There is no conductivity within this unit. Lower contact sharp at 88dca.	N549565	174.30	175.00	0.70	0.71	0.17	
			N549566	175.00	176.00	1.00	0.06	0.13	
			N549567	176.00	177.29	1.29	0.01	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
177.29	188.28	**GRPBX Graphitic Breccia** A diverse unit of breccia with areas of more overprinted fragments in a matrix including graphite and small fragments to fragments with no over printing and a more pure graphite matrix. The areas with the more pure matrix seem to have more angular fragments. 181.75-182.20m an area of moderate chlorite and biotite with contacts at 130dca. 183.80-184.45m hematite staining along fractures and within fragments. 184.55-185.35m large syenite fragment with moderate fracture filling. 186-188.28m although still trace there is some pyrite associated with the matrix and possibly quartz. Lower contact sharp at 135dca.	N549568	177.29	178.00	0.71	3.82	0.28	
			N549569	178.00	179.00	1.00	4.52	0.18	
			N549571	179.00	180.00	1.00	3.42	0.25	
			N549570	179.00	180.00	1.00	3.44	0.24	
			N549572	180.00	181.00	1.00	4.09	0.28	
			N549573	181.00	182.00	1.00	3.21	0.14	
			N549574	182.00	183.00	1.00	1.36	0.29	
			N549576	183.00	184.00	1.00	3.15	0.6	
			N549577	184.00	185.00	1.00	3.79	0.47	
			N549578	185.00	186.00	1.00	4.71	0.39	
			N549579	186.00	187.00	1.00	2.59	0.4	
			N549580	187.00	187.65	0.65	0.95	0.33	
			N549581	187.65	188.28	0.63	7.74	0.72	
188.28	193.87	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained. Moderate graphite fracture filling. Mild to moderate chlorite alteration throughout unit. 190.00-190.30m localized breccia with sub-angular fragments and overprinting. Lower contact irregular at ~97dca.	N549582	188.28	189.00	0.72	0.58	0.25	
			N549583	189.00	190.00	1.00	0.49	0.31	
			N549585	190.00	191.00	1.00	2.24	0.49	
			N549586	191.00	192.00	1.00	0.82	0.24	
			N549587	192.00	193.00	1.00	0.86	0.22	
			N549588	193.00	193.87	0.87	0.75	0.23	
193.87	196.66	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments up to 40cm in size with a graphite rich matrix. The fragments are more fracture filled and less overprinted than other wet pipe breccias, this is more like a typical east pipe breccia. Lower contact sharp at 45dca.	N549589	193.87	195.00	1.13	5.61	0.39	
			N549591	195.00	196.00	1.00	3.41	0.45	
			N549590	195.00	196.00	1.00	3.27	0.45	
			N549592	196.00	196.66	0.66	2.84	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
196.66	198.89	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained. This unit has mild to moderate graphite fracture filling. Lower contact slightly irregular at 93dca.	N549593	196.66	197.30	0.64	0.41	0.1	
			N549594	197.30	198.00	0.70	0.24	0.18	
			N549596	198.00	198.89	0.89	0.32	0.13	
198.89	207.47	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments unto 25cm in size in a graphite rich matrix. Some of the larger fragments are mildly overprinted and have moderate fracture filling. The larger fragments are separated by 2-10cm wide graphite rich zones with smaller fragments. 199.33-200.06m a large mildly overprinted with moderate graphite fracture filling fragment. 204.88-205.24m overprinted mafic dyke with moderate to strong chlorite and mild to moderate biotite alteration. 205.73-206.00m possibly a strongly overprinted fragment with some foliation or a mildly sheared area? 207.21-207.47m Porphyritic Intermediate Dyke with pink in and green phenocrysts. Upper Contact @ 88dca/Lower Contact @ 30dca. Lower contact of unit is sharp and shared with the porphyritic intermediate dyke at 30dca.	N549597	198.89	200.00	1.11	3.25	0.4	
			N549598	200.00	201.00	1.00	2.72	0.4	
			N549599	201.00	202.00	1.00	3.29	0.15	
			N549600	202.00	203.00	1.00	4.94	0.43	
			N549601	203.00	204.00	1.00	4.07	0.27	
			N549602	204.00	205.00	1.00	0.98	0.2	
			N549603	205.00	206.00	1.00	5.69	1.82	
			N549605	206.00	207.00	1.00	5.31	0.83	
			N549606	207.00	207.47	0.47	1.28	0.31	
207.47	208.76	**SYEN Syenite** Pink with grey fine to medium grained syenite or felsic dyke. There does not appear to be any overprinting or fracture filling in this unit. Lower contact at 60dca.	N549607	207.47	208.76	1.29	0.08	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
208.76	210.85	**GRPBX Graphitic Breccia** There is definite fragments with a graphite rich matrix although most of this unit resembles a more fractured syenite with graphite filling the fractures. This unit looks like the conductivity should be high but it is actually weak which may mean that the unit is not as rich in graphite as it appears. Lower contact irregular at 105dca.	N549608	208.76	209.40	0.64	4.51	0.51	
			N549609	209.40	210.00	0.60	3.84	0.38	
			N549611	210.00	210.85	0.85	2.44	0.17	
			N549610	210.00	210.85	0.85	2.35	0.17	
210.85	214.78	**SYEN Syenite** Grey, white and pink, fine to medium grained. This unit has localized fracture filling at 212.32m but otherwise does not seem to have any graphite associated with it. 213.00-214.78m The syenite has an appearance similar to a breccia but there is no graphite associated with the unit.	N549612	210.85	212.00	1.15	0.04	0.12	
			N549613	212.00	213.00	1.00	0.06	0.1	
			N549614	213.00	214.00	1.00	0.04	0.05	
			N549616	214.00	214.78	0.78	0.05	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
214.78	243.85	**GRPBX Graphitic Breccia** This breccia is very subtle as the fragments are so dark its difficult to distinguish some of them from the matrix. This breccia looks like it should be very rich in graphite but in fact it is only weakly conductive. Below the Porphyry dyke at 219.08-219.51m the fragments become more distinguishable from the matrix. Fragments range in size up to 40cm, colour from grey to pale pink and green and are mildly to strongly overprinted with graphite. 215.00-216.73m weak to moderate shearing, there is a definite foliation in the rock. 217.50-217.89m possibly a dark felsic porphyry, there is not conductivity in this dyke differentiating it from the surrounding breccia. 219.08-219.51m dark grey porphyry dyke with feldspar phenocrysts. UC @ 94dca/LC @ 106dca. 220.72-220.83m grey siliceous dyke with fragments that are deep red with hematite staining. UC @ 37dca/LC @ 50dca 226.50-226.61m green overprinted mafic dyke with chlorite and biotite. Contacts are irregular. 243.17m fine grained felsic dyke ~1cm wide cutting obtusely across the core with irregular contacts. Lower contact sharp at 60dca.							
			N549617	214.78	215.40	0.62	2.38	0.23	
			N549618	215.40	216.00	0.60	0.13	0.11	
			N549619	216.00	217.00	1.00	0.18	0.15	
			N549620	217.00	218.00	1.00	1.47	0.3	
			N549621	218.00	219.08	1.08	2.78	0.46	
			N549622	219.08	219.51	0.43	0.05	0.09	
			N549623	219.51	220.00	0.49	5.25	0.53	
			N549625	220.00	221.00	1.00	4.17	0.57	2.6
			N549626	221.00	222.00	1.00	1.67	0.25	2.64
			N549627	222.00	223.00	1.00	3.93	0.31	2.64
			N549628	223.00	224.00	1.00	0.88	0.09	2.58
			N549629	224.00	225.00	1.00	1.83	0.12	2.61
			N549630	225.00	226.00	1.00	2.34	0.19	
			N549631	225.00	226.00	1.00	2.31	0.19	
			N549632	226.00	227.00	1.00	7.15	0.5	
			N549633	227.00	228.00	1.00	3.15	0.38	
			N549634	228.00	229.00	1.00	2.27	0.24	
			N549636	229.00	230.00	1.00	1.38	0.24	
			N549637	230.00	231.00	1.00	2.43	0.42	
			N549638	231.00	232.00	1.00	1.53	0.12	
			N549639	232.00	233.00	1.00	0.84	0.09	
			N549640	233.00	234.00	1.00	2.15	0.14	
			N549641	234.00	235.00	1.00	2.87	0.32	
			N549642	235.00	236.00	1.00	5.04	0.31	
			N549643	236.00	237.00	1.00	8.46	1.64	
			N549645	237.00	238.00	1.00	7.62	0.4	
			N549646	238.00	239.00	1.00	6.32	0.34	
			N549647	239.00	240.00	1.00	5.22	0.4	
			N549648	240.00	241.00	1.00	3.65	0.31	
			N549649	241.00	242.00	1.00	5.11	0.95	
			N549650	242.00	243.00	1.00	4.11	0.59	
			N549651	242.00	243.00	1.00	4.4	0.61	
			N549652	243.00	243.85	0.85	2.67	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
243.85	248.76	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained with graphite fracture filling. 244.05-244.11 strong chlorite shear? At 90dca. 246.27-246.29 possible mafic dyke moderate chlorite and biotite. 246.90-247.05 shear/mafic dyke, moderate chlorite and biotite; there is a mild fabric seen in this rock not seen in the surrounding rock. Graphite overprinting and fracture filling. UC @ 27dca/LC @ 21dca. 247.14-247.26 same as above but no foliation. UC @ 27dca/LC @ 19dca. 247.47-248.19 breccia zone with angular to sub-angular fragments surrounded but a graphite rich matrix. 248.19-248.52 mafic dyke with chlorite and biotite alteration. Strong chlorite along fractures. Graphite overprinting and fracture filling. UC @ 33dca/LC @ 18dca. Lower contact sharp at 122dca.	N549653	243.85	245.00	1.15	0.13	0.14	
			N549654	245.00	246.00	1.00	0.11	0.14	
			N549656	246.00	246.90	0.90	0.34	0.19	
			N549657	246.90	247.47	0.57	1.08	0.21	
			N549658	247.47	248.19	0.72	5.14	0.3	
			N549659	248.19	248.76	0.57	0.33	0.17	
248.76	256.79	**SYENSL Syenite Sill (unmineralized)** Medium grained intermediate intrusive rock with coarse grained phases. Moderate chlorite fracture filling. Some of the coarse grained areas have a pink hue to them possibly suggesting a more orthoclase rich rock? 256.08-256.79 graphite fracture filling. Lower contact sharp at 100dca.	N549660	248.76	250.00	1.24	0.01	0.02	
			N549661	250.00	251.00	1.00	0.01	0.01	
			N549662	251.00	252.00	1.00	0.02	0.06	
			N549663	252.00	253.00	1.00	0.04	0.03	
			N549665	253.00	254.00	1.00	0.01	0.02	
			N549666	254.00	255.00	1.00	0.02	0.01	
			N549667	255.00	256.08	1.08	0.02	0.23	
			N549668	256.08	256.79	0.71	0.57	0.28	
256.79	258.80	**SYENOP Syenite with Graphitic Overprinting** Grey to pink medium grained with graphite fracture filling. 256.79-257.56 Brecciated zone with sub-angular to sub-rounded fragments surrounded by a graphite rich matrix. Lower contact sharp at 130dca.	N549669	256.79	257.56	0.77	6.05	0.72	
			N549671	257.56	258.10	0.54	0.02	0.03	
			N549670	257.56	258.10	0.54	0.02	0.04	
			N549672	258.10	258.80	0.70	0.14	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
258.80	269.47	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments in a graphite rich matrix. Some fragments exhibit fracture filling. Some fragments have been overprinted so much that they are difficult to distinguish from the matrix, other fragments are pink and are very similar to the original syenite. There is some trace pyrite associated with this breccia. 260.94-261.97m dark grey porphyritic dyke with strongly irregular contacts. 263.13-263.30m chlorite and biotite rich zone with mild foliation and irregular contacts. 264.72-265.79m overprinted syenite with fracture filling. Lower contact sharp at 75dca.	N549673	258.80	259.40	0.60	4.26	0.55	
			N549674	259.40	260.00	0.60	6.07	0.42	
			N549676	260.00	260.94	0.94	2.5	0.21	
			N549677	260.94	261.97	1.03	0.13	0.09	
			N549678	261.97	263.00	1.03	2.7	0.26	
			N549679	263.00	264.00	1.00	4.02	0.26	
			N549680	264.00	264.72	0.72	3.58	0.31	
			N549681	264.72	265.79	1.07	0.3	0.09	
			N549682	265.79	266.20	0.41	3.54	0.24	
			N549683	266.20	267.00	0.80	1.92	0.06	
			N549685	267.00	268.00	1.00	2.46	0.35	
			N549686	268.00	269.00	1.00	3.36	0.29	
			N549687	269.00	269.47	0.47	2.74	0.14	
269.47	274.35	**SYENOP Syenite with Graphitic Overprinting** Grey with a few pink areas. Mild to moderate overprinting and some graphite fracture filling. Moderate carbonate along fractures. 271.04-271.20m chlorite and biotite altered zone with mild foliation. Lower contact sharp at 35dca.	N549688	269.47	270.00	0.53	0.27	0.06	
			N549689	270.00	271.00	1.00	0.26	0.44	
			N549691	271.00	272.00	1.00	0.5	0.17	
			N549690	271.00	272.00	1.00	0.44	0.13	
			N549692	272.00	273.00	1.00	0.24	0.15	
			N549693	273.00	273.60	0.60	0.14	0.16	
			N549694	273.60	274.35	0.75	0.16	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
274.35	278.50	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments with a graphite rich matrix. About 40% of this unit is made up of larger graphite overprinted syenite zones/units? Lower contact sharp at 55dca.	N549696	274.35	275.00	0.65	3.7	0.23	
			N549697	275.00	275.70	0.70	0.62	0.35	
			N549698	275.70	276.40	0.70	3.29	0.32	
			N549699	276.40	277.05	0.65	0.29	0.12	
			N549700	277.05	277.75	0.70	3.67	0.3	
			N549701	277.75	278.50	0.75	5.75	0.38	
278.50	280.17	**IDP Intermediate Dike (Porphyritic)** Dark grey fine grained rock with white pink and green phenocrysts. Lower contact sharp at 128dca.	N549702	278.50	279.00	0.50	0.05	0.15	
			N549703	279.00	280.17	1.17	0.14	0.17	
280.17	284.41	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments in a graphite rich matrix. Graphite overprinting is moderate to strong in some areas. There is chlorite and biotite alteration in some fragments. 281.63-282.21m porphyritic dyke with trace pyrite in blebs. UC and LC @ 54dca. 282.21-283.58m less brecciated and more of an overprinted syenite with strong graphite fracture filling. 284.00-284.10m fine grained felsic dyke. UC and LC @ 90dca. Lower contact irregular at ~40dca.	N549705	280.17	281.00	0.83	5.55	0.4	
			N549706	281.00	281.63	0.63	5.78	0.76	
			N549707	281.63	282.21	0.58	0.58	0.82	
			N549708	282.21	283.00	0.79	2.38	0.22	
			N549709	283.00	283.58	0.58	2.11	0.23	
			N549711	283.58	284.41	0.83	6.29	0.27	
			N549710	283.58	284.41	0.83	6.32	0.28	
284.41	286.86	**SYENSL Syenite Sill (unmineralized)** Medium to coarse grained grey to green with some pale pink areas.	N549712	284.41	285.00	0.59	0.15	0.32	
			N549713	285.00	286.00	1.00	0.01	0.04	
			N549714	286.00	286.86	0.86	0.02	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
286.86	299.90	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained. 289.00-291.00m moderately to strongly fractured. 292.60-293.42m chlorite and biotite altered zone with a weak foliation. 294.10-294.40m brecciated zone with a graphite rich matrix. 289.10-289.90m Porphyritic Intermediate Dyke dark grey with green phenocrysts with alteration halos. Lower gradational at 66dca.	N549716	286.86	288.00	1.14	0.26	0.14	
			N549717	288.00	289.00	1.00	1.62	0.14	2.57
			N549718	289.00	290.00	1.00	0.25	0.04	2.56
			N549719	290.00	291.00	1.00	0.13	0.03	2.53
			N549720	291.00	292.00	1.00	0.72	0.33	2.66
			N549721	292.00	292.60	0.60	0.82	0.03	
			N549722	292.60	293.42	0.82	0.63	0.09	
			N549723	293.42	294.10	0.68	2.28	0.13	
			N549725	294.10	294.40	0.30	5.29	0.04	
			N549726	294.40	295.00	0.60	0.67	0.06	
			N549727	295.00	296.00	1.00	1.37	0.11	
			N549728	296.00	297.00	1.00	0.29	0.09	
			N549729	297.00	298.10	1.10	0.06	0.11	
			N549730	298.10	298.90	0.80	0.05	0.005	
			N549731	298.10	298.90	0.80	0.04	0.005	
			N549732	298.90	299.90	1.00	0.07	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
299.90	402.83	**SYENSL Syenite Sill (unmineralized)** Grey green to pale green medium to coarse grained. Localized small dark felsic dykes. Chlorite alteration predominantly along fractures. 385.00-388.00m fracture zone with hematite staining along fractures. Angular rubble throughout zone. Possible fault gouge at 387.80?	N549733	299.90	301.00	1.10	0.04	0.01	
			N549734	301.00	302.50	1.50	0.03	0.01	
			N549736	302.50	304.00	1.50	0.02	0.01	
			N549737	304.00	305.50	1.50	0.01	0.04	
			N549738	305.50	307.00	1.50	0.01	0.04	
			N549739	307.00	308.50	1.50	0.01	0.04	
			N549740	308.50	310.00	1.50	0.01	0.05	
			N549741	310.00	311.50	1.50	0.02	0.06	
			N549742	311.50	313.00	1.50	0.02	0.03	
			N549743	313.00	314.50	1.50	0.03	0.11	
			N549745	314.50	316.00	1.50	0.01	0.05	
			N549746	316.00	317.50	1.50	0.02	0.03	
			N549747	317.50	319.00	1.50	0.04	0.03	
			N549748	319.00	320.50	1.50	0.08	0.03	
			N549749	320.50	322.00	1.50	0.06	0.06	
			N549750	322.00	323.50	1.50	0.03	0.03	
			N549751	322.00	323.50	1.50	0.02	0.02	
			N549752	323.50	325.00	1.50	0.04	0.01	
			N549753	325.00	326.50	1.50	0.06	0.02	
			N549754	326.50	328.00	1.50	0.05	0.04	
			N549756	328.00	329.50	1.50	0.07	0.02	
			N549757	329.50	331.00	1.50	0.03	0.02	
			N549758	331.00	332.50	1.50	0.05	0.14	
			N549759	332.50	334.00	1.50	0.11	0.1	
			N549760	334.00	335.50	1.50	0.06	0.2	
			N549761	335.50	337.00	1.50	0.05	0.34	
			N549762	337.00	338.50	1.50	0.09	0.26	
			N549763	338.50	340.00	1.50	0.1	0.09	
			N549765	340.00	341.50	1.50	0.01	0.03	
			N549766	341.50	343.00	1.50	0.07	0.02	
			N549767	343.00	344.50	1.50	0.04	0.05	
			N549768	344.50	346.00	1.50	0.03	0.15	
			N549769	346.00	347.50	1.50	0.01	0.03	
			N549770	347.50	349.00	1.50	0.02	0.02	
			N549771	347.50	349.00	1.50	0.04	0.02	
			N549772	349.00	350.50	1.50	0.05	0.02	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N549773	350.50	352.00	1.50	0.01	0.01	
		N549774	352.00	353.50	1.50	0.01	0.01	
		N549776	353.50	355.00	1.50	0.02	0.01	
		N549777	355.00	356.50	1.50	0.01	0.01	2.69
		N549778	356.50	358.00	1.50	0.01	0.02	2.64
		N549779	358.00	359.50	1.50	0.05	0.01	2.68
		N549780	359.50	361.00	1.50	0.03	0.02	2.7
		N549781	361.00	362.50	1.50	0.01	0.02	2.66
		N549782	362.50	364.00	1.50	0.03	0.01	
		N549783	364.00	365.50	1.50	0.1	0.02	
		N549785	365.50	367.00	1.50	0.05	0.03	
		N549786	367.00	368.50	1.50	0.01	0.01	
		N549787	368.50	370.00	1.50	0.05	0.01	
		N549788	370.00	371.50	1.50	0.05	0.01	
		N549789	371.50	373.00	1.50	0.05	0.01	
		N549790	373.00	374.50	1.50	0.01	0.02	
		N549791	373.00	374.50	1.50	0.01	0.03	
		N549792	374.50	376.00	1.50	0.01	0.01	
		N549793	376.00	377.50	1.50	0.03	0.02	
		N549794	377.50	379.00	1.50	0.03	0.11	
		N549796	379.00	380.50	1.50	0.01	0.04	
		N549797	380.50	382.00	1.50	0.04	0.11	
		N549798	382.00	383.50	1.50	0.04	0.02	
		N549799	383.50	385.00	1.50	0.09	0.05	
		N549800	385.00	386.50	1.50	0.02	0.05	
		N549801	386.50	388.00	1.50	0.05	0.01	
		N549802	388.00	389.50	1.50	0.05	0.05	
		N549803	389.50	391.00	1.50	0.01	0.01	
		N549805	391.00	392.50	1.50	0.01	0.005	
		N549806	392.50	394.00	1.50	0.01	0.03	
		N549807	394.00	395.50	1.50	0.01	0.01	
		N549808	395.50	397.00	1.50	0.03	0.03	
		N549809	397.00	398.50	1.50	0.01	0.03	
		N549810	398.50	400.00	1.50	0.01	0.02	
		N549811	398.50	400.00	1.50	0.01	0.03	
		N549812	400.00	401.50	1.50	0.01	0.03	
		N549813	401.50	402.83	1.33	0.01	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
402.83	410.05	**SYEN Syenite** Grey to pink, medium grained no graphite. 406.19-406.66 fine grained grey felsic dyke.	N549814	402.83	404.00	1.17	0.04	0.04	
			N549816	404.00	405.00	1.00	0.01	0.04	2.64
			N549817	405.00	406.00	1.00	0.01	0.05	2.65
			N549818	406.00	407.00	1.00	0.05	0.56	2.64
			N549819	407.00	408.00	1.00	0.03	0.05	2.63
			N549820	408.00	409.00	1.00	0.02	0.05	2.64
			N549821	409.00	410.05	1.05	0.04	0.13	
410.05	411.00	**SYENSL Syenite Sill (unmineralized)** Pale green, medium grained, hard. 410.05-410.29 porphyritic dyke. EOH 411.0m	N549822	410.05	411.00	0.95	0.01	0.07	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	285.00	18/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545908.8	682923			Reflex APS	22/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.00	196.60		-47.50	Chibougamau Diamond Drilling	24/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Mike Roberts	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	225	*Casing Pulled*	*Casing (1)*	60.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To test East Pipe at North tip	124.25m to 202.56m graphite rich breccia units seperated by overprinted syenite. From 107.00m to 241.00m, the assays averaged 3.78% Cg over 134.00m; within this intersection a higher grade graphite zone from 124.88m to 203.00m averaged 6.15% Cg over 78.12m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
78.00			206.3	197.3	-48.1	-48.1	☑	Reflex EZ	56659	
81.00			206.3	197.3	-48	-48	☑	Reflex EZ	56437	
84.00			206	197	-48	-48	☑	Reflex EZ	56276	
87.00			205.4	196.4	-47.9	-47.9	☑	Reflex EZ	56274	
90.00			205.6	196.6	-47.9	-47.9	☑	Reflex EZ	56243	
93.00			206.1	197.1	-47.9	-47.9	☑	Reflex EZ	56211	
96.00			205	196	-47.9	-47.9	☑	Reflex EZ	56257	
99.00			205	196	-47.9	-47.9	☑	Reflex EZ	56272	
102.00			206	197	-47.9	-47.9	☑	Reflex EZ	56191	
105.00			204.8	195.8	-47.9	-47.9	☑	Reflex EZ	56268	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
108.00			205.1	196.1	-47.8	-47.8	☑	Reflex EZ	56278	
111.00			206.3	197.3	-47.9	-47.9	☑	Reflex EZ	56191	
114.00			206.2	197.2	-47.9	-47.9	☑	Reflex EZ	56182	
117.00			206.5	197.5	-47.9	-47.9	☑	Reflex EZ	56175	
120.00			205.5	196.5	-47.9	-47.9	☑	Reflex EZ	56212	
123.00			205.6	196.6	-47.9	-47.9	☑	Reflex EZ	56197	
126.00			205.1	196.1	-47.8	-47.8	☑	Reflex EZ	56251	
129.00			206.5	197.5	-47.9	-47.9	☑	Reflex EZ	56176	
132.00			205.7	196.7	-47.8	-47.8	☑	Reflex EZ	56181	
135.00			206.2	197.2	-48	-48	☑	Reflex EZ	56182	
138.00			205.1	196.1	-47.9	-47.9	☑	Reflex EZ	56239	
141.00			205.3	196.3	-47.8	-47.8	☑	Reflex EZ	56193	
144.00			206.6	197.6	-47.9	-47.9	☑	Reflex EZ	56190	
147.00			206.3	197.3	-47.8	-47.8	☑	Reflex EZ	56169	
150.00			206.6	197.6	-47.9	-47.9	☑	Reflex EZ	56158	
153.00			206.5	197.5	-47.9	-47.9	☑	Reflex EZ	56173	
156.00			205.5	196.5	-47.8	-47.8	☑	Reflex EZ	56221	
159.00			205.5	196.5	-47.9	-47.9	☑	Reflex EZ	56199	
162.00			206.7	197.7	-47.9	-47.9	☑	Reflex EZ	56169	
165.00			206.2	197.2	-47.9	-47.9	☑	Reflex EZ	56162	
168.00			205.4	196.4	-47.9	-47.9	☑	Reflex EZ	56185	
171.00			205.4	196.4	-48.1	-48.1	☑	Reflex EZ	56122	
174.00			205.2	196.2	-48.1	-48.1	☑	Reflex EZ	56220	
177.00			205.4	196.4	-48	-48	☑	Reflex EZ	56221	
180.00			205.8	196.8	-48.1	-48.1	☑	Reflex EZ	56192	
183.00			206.3	197.3	-48.1	-48.1	☑	Reflex EZ	56184	
186.00			206.2	197.2	-48.1	-48.1	☑	Reflex EZ	56193	
189.00			205.2	196.2	-48.1	-48.1	☑	Reflex EZ	56218	
192.00			206.5	197.5	-48.1	-48.1	☑	Reflex EZ	56200	
195.00			205.6	196.6	-48.1	-48.1	☑	Reflex EZ	56206	
198.00			206.5	197.5	-48.1	-48.1	☑	Reflex EZ	56200	
201.00			205.3	196.3	-48.1	-48.1	☑	Reflex EZ	56234	
204.00			206.3	197.3	-48.1	-48.1	☑	Reflex EZ	56183	
207.00			206.2	197.2	-48.1	-48.1	☑	Reflex EZ	56200	
210.00			205.6	196.6	-48.1	-48.1	☑	Reflex EZ	56274	
213.00			205.5	196.5	-48.1	-48.1	☑	Reflex EZ	56269	
216.00			205.8	196.8	-48.2	-48.2	☑	Reflex EZ	56254	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
219.00			205.6	196.6	-48.1	-48.1	☑	Reflex EZ	56256	
222.00			205.9	196.9	-48.2	-48.2	☑	Reflex EZ	56246	
225.00			205.7	196.7	-48.1	-48.1	☑	Reflex EZ	56232	
228.00			207.1	198.1	-48.2	-48.2	☑	Reflex EZ	56242	
231.00			205.6	196.6	-48.1	-48.1	☑	Reflex EZ	56244	
234.00			207.3	198.3	-48.1	-48.1	☑	Reflex EZ	56221	
237.00			207.3	198.3	-48.1	-48.1	☑	Reflex EZ	56216	
240.00			206.3	197.3	-48.2	-48.2	☑	Reflex EZ	56229	
243.00			207.4	198.4	-48.1	-48.1	☑	Reflex EZ	56180	
246.00			207.2	198.2	-48.1	-48.1	☑	Reflex EZ	56197	
249.00			206.1	197.1	-48.2	-48.2	☑	Reflex EZ	56232	
252.00			207.3	198.3	-48.2	-48.2	☑	Reflex EZ	56199	
255.00			206.1	197.1	-48.1	-48.1	☑	Reflex EZ	56284	
258.00			206.2	197.2	-48.1	-48.1	☑	Reflex EZ	56213	
261.00			206.4	197.4	-48.1	-48.1	☑	Reflex EZ	56264	
264.00			207.6	198.6	-48.1	-48.1	☑	Reflex EZ	56190	
267.00			206.4	197.4	-48.1	-48.1	☑	Reflex EZ	56221	
270.00			206.4	197.4	-48.1	-48.1	☑	Reflex EZ	56236	
273.00			206.9	197.9	-48.2	-48.2	☑	Reflex EZ	56203	
276.00			206.8	197.8	-48.2	-48.2	☑	Reflex EZ	56221	
279.00			206.9	197.9	-48.1	-48.1	☑	Reflex EZ	56215	
282.00			206.3	197.3	-48.1	-48.1	☑	Reflex EZ	56225	
285.00			206.3	197.3	-48.1	-48.1	☑	Reflex EZ	56255	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	57.00	**OB Overburden**							
57.00	57.20	**SED Sediment** Limestone							
57.20	64.20	**SYENOP Syenite with Graphitic Overprinting** Orange and pink. Very strongly weathered. Strongly fractured and broken and blocky. 63.90 to 64.20 Soft red gouge. Lower contact at 158 dca.	Q156708	57.20	58.00	0.80	0.03	0.13	
			Q156709	58.00	59.00	1.00	0.05	0.51	
			Q156711	59.00	60.00	1.00	0.01	0.29	
			Q156710	59.00	60.00	1.00	0.04	0.28	
			Q156712	60.00	61.00	1.00	0.07	0.07	
			Q156713	61.00	62.00	1.00	0.04	0.01	
			Q156714	62.00	63.00	1.00	0.08	0.01	
			Q156716	63.00	64.20	1.20	0.05	0.02	
64.20	68.30	**MD Mafic Dyke** Olive green. Fine to very fine grained. Massive. 67.52 to 67.70 fracture at 15 dca. Lower contact gouge at 37 dca.	Q156717	64.20	65.00	0.80	0.04	0.02	
			Q156718	65.00	66.00	1.00	0.09	0.01	
			Q156719	66.00	67.00	1.00	0.08	0.01	
			Q156720	67.00	68.30	1.30	0.09	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
68.30	- 122.04	**SYENOP Syenite with Graphitic Overprinting** Orange and pink and purple (Potassic alteration?) with some light grey areas. Massive and very hard. Unit is well weathered. 107.8 to 118m strongly fractured. 109.92 5cm malachite fault gouge at 47 dca. 117.90 to 117.98m Malachite fault gouge at 80 dca. Lower contact at 43 dca.	Q156721	68.30	69.00	0.70	0.01	0.04	
			Q156722	69.00	70.00	1.00	0.09	0.05	
			Q156723	70.00	71.00	1.00	0.13	0.01	
			Q156725	71.00	72.00	1.00	0.29	0.02	
			Q156726	72.00	73.00	1.00	0.23	0.01	
			Q156727	73.00	74.00	1.00	0.13	0.01	
			Q156728	74.00	75.00	1.00	0.06	0.01	
			Q156729	75.00	76.00	1.00	0.16	0.01	
			Q156730	76.00	77.00	1.00	0.17	0.02	
			Q156731	76.00	77.00	1.00	0.15	0.01	
			Q156732	77.00	78.00	1.00	0.1	0.04	
			Q156733	78.00	79.00	1.00	0.23	0.08	
			Q156734	79.00	80.00	1.00	0.06	0.09	
			Q156736	80.00	81.00	1.00	0.17	0.08	
			Q156737	81.00	82.00	1.00	0.19	0.18	
			Q156738	82.00	83.00	1.00	0.21	0.18	
			Q156739	83.00	84.00	1.00	0.18	0.18	
			Q156740	84.00	85.00	1.00	0.15	0.15	
			Q156741	85.00	86.00	1.00	0.23	0.17	
			Q156742	86.00	87.00	1.00	0.08	0.23	
			Q156743	87.00	88.00	1.00	0.18	0.14	
			Q156745	88.00	89.00	1.00	0.38	0.04	
			Q156746	89.00	90.00	1.00	0.18	0.06	
			Q156747	90.00	91.00	1.00	0.13	0.09	
			Q156748	91.00	92.00	1.00	0.06	0.13	
			Q156749	92.00	93.00	1.00	0.23	0.07	
			Q156751	93.00	94.00	1.00	0.21	0.13	
			Q156750	93.00	94.00	1.00	0.24	0.12	
			Q156752	94.00	95.00	1.00	0.11	0.22	
			Q156753	95.00	96.00	1.00	0.38	0.05	
			Q156754	96.00	97.00	1.00	0.18	0.13	
			Q156756	97.00	98.00	1.00	0.19	0.11	
			Q156757	98.00	99.00	1.00	0.06	0.13	
			Q156758	99.00	100.00	1.00	0.16	0.21	
			Q156759	100.00	101.00	1.00	0.29	0.11	
			Q156760	101.00	102.00	1.00	0.11	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q156761	102.00	103.00	1.00	0.3	0.15	
			Q156762	103.00	104.00	1.00	0.28	0.15	
			Q156763	104.00	105.00	1.00	0.2	0.22	
			Q156765	105.00	106.00	1.00	0.26	0.22	
			Q156766	106.00	107.00	1.00	0.31	0.24	
			Q156767	107.00	108.00	1.00	0.57	0.19	
			Q156768	108.00	109.00	1.00	0.21	0.09	
			Q156769	109.00	110.00	1.00	0.3	0.09	
			Q156770	110.00	111.00	1.00	0.27	0.13	
			Q156771	110.00	111.00	1.00	0.27	0.12	
			Q156772	111.00	112.00	1.00	0.93	0.06	
			Q156773	112.00	113.00	1.00	0.57	0.09	
			Q156774	113.00	114.00	1.00	1.03	0.13	
			Q156776	114.00	115.00	1.00	0.58	0.14	
			Q156777	115.00	116.00	1.00	0.57	0.17	
			Q156778	116.00	117.00	1.00	0.15	0.24	
			Q156779	117.00	118.00	1.00	0.63	0.16	
			Q156780	118.00	119.00	1.00	0.82	0.1	
			Q156781	119.00	120.00	1.00	1.25	0.07	
			Q156782	120.00	121.00	1.00	0.32	0.27	
			Q156783	121.00	122.04	1.04	0.21	0.31	
122.04	124.25	**SYEN Syenite** Dark grey base with dark green chlorite and biotite alteration overprinted on syenite. Biotite foliated at 55 dca. Lower contact at 67 dca.	Q156785	122.04	123.00	0.96	0.44	0.04	
			Q156786	123.00	124.25	1.25	0.68	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
124.25	150.80	**GRPBX Graphitic Breccia** Dark grey to black with lighter grey overprinted syenite fragments. 124.34 to 124.88 Jasperoid dyke at Upper Contact 79 dca, Lower Contact at 65 dca. 139.00 to 150.8 Unit has what appears to be cherty fragments. Very fine grained and buff. 144.73 to 144.85 "Chert dyke" at 110 dca. 148.90 to 149.00 Fault at 23 dca. Lower contact at 56 dca.	Q156787	124.25	124.88	0.63	1.13	0.05	
			Q156788	124.88	126.00	1.12	5.21	0.05	
			Q156789	126.00	127.00	1.00	5.18	0.02	
			Q156790	127.00	128.00	1.00	9.42	0.02	
			Q156791	127.00	128.00	1.00	9.55	0.02	
			Q156792	128.00	129.00	1.00	3.9	0.02	
			Q156793	129.00	130.00	1.00	4.04	0.03	
			Q156794	130.00	131.00	1.00	11.2	0.03	
			Q156796	131.00	132.00	1.00	9.72	0.07	2.44
			Q156797	132.00	133.00	1.00	7.76	0.06	2.51
			Q156798	133.00	134.00	1.00	7.71	0.08	2.6
			Q156799	134.00	135.00	1.00	6.97	0.09	2.5
			Q156800	135.00	136.00	1.00	8.65	0.07	2.52
			Q156801	136.00	137.00	1.00	7.43	0.05	
			Q156802	137.00	138.00	1.00	8.34	0.06	
			Q156803	138.00	139.00	1.00	8.75	0.04	
			Q156805	139.00	140.00	1.00	9.2	0.08	
			Q156806	140.00	141.00	1.00	9.44	0.07	
			Q156807	141.00	142.00	1.00	6.19	0.08	
			Q156808	142.00	143.00	1.00	7.11	0.09	
			Q156809	143.00	144.00	1.00	6.92	0.1	
			Q156810	144.00	145.00	1.00	8.56	0.09	
			Q156811	144.00	145.00	1.00	8.92	0.09	
			Q156812	145.00	146.00	1.00	7.2	0.08	
			Q156813	146.00	147.00	1.00	12.5	0.09	
			Q156814	147.00	148.00	1.00	14	0.1	
			Q156816	148.00	149.00	1.00	8.65	0.11	
			Q156817	149.00	150.00	1.00	11.2	0.08	
			Q156818	150.00	150.80	0.80	9.11	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
150.80	160.00	**SYENOP Syenite with Graphitic Overprinting** Orange and pink to red. Unit is extremely fractured fault zone. Broken and blocky. Fractures and faults range all the way from 0 to 180 dca. Lower contact faulted at 50 dca.	Q156819	150.80	152.00	1.20	0.4	0.16	
			Q156820	152.00	153.00	1.00	0.16	0.18	
			Q156821	153.00	154.00	1.00	3.23	0.09	
			Q156822	154.00	155.00	1.00	0.01	0.02	
			Q156823	155.00	156.00	1.00	0.06	0.005	
			Q156825	156.00	157.00	1.00	0.01	0.01	
			Q156826	157.00	158.00	1.00	0.01	0.03	
			Q156827	158.00	159.00	1.00	0.01	0.05	
			Q156828	159.00	160.00	1.00	0.2	0.03	
160.00	176.24	**GRPBX Graphitic Breccia** Dark grey to black. Well mineralized. 170.44 to 171.08 Intermediate dyke, Upper Contact 35 dca, Lower Contact 65 dca. 175.97 to 175.24 overprinted syenite at 39 dca. Lower contact at 31 dca.	Q156829	160.00	161.00	1.00	9.11	0.02	
			Q156830	161.00	162.00	1.00	6.27	0.03	
			Q156831	161.00	162.00	1.00	6.3	0.04	
			Q156832	162.00	163.00	1.00	8.26	0.09	
			Q156833	163.00	164.00	1.00	1.62	0.1	
			Q156834	164.00	165.00	1.00	12.6	0.1	
			Q156836	165.00	166.00	1.00	5.46	0.06	
			Q156837	166.00	167.00	1.00	6	0.01	
			Q156838	167.00	168.00	1.00	5.66	0.11	
			Q156839	168.00	169.00	1.00	6.07	0.17	
			Q156840	169.00	170.00	1.00	11.1	0.25	
			Q156841	170.00	170.44	0.44	9.71	0.44	
			Q156842	170.44	171.08	0.64	0.15	0.2	
			Q156843	171.08	172.00	0.92	8.54	0.22	
			Q156845	172.00	173.00	1.00	6.76	0.29	
			Q156846	173.00	174.00	1.00	9.22	0.7	
			Q156847	174.00	175.00	1.00	7.92	0.53	
			Q156848	175.00	175.97	0.97	2.66	1.21	
			Q156849	175.97	176.24	0.27	1.15	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
176.24	177.80	**ID Intermediate Dyke** Dark green Very fine grained. Massive and very hard. Lower contact sharp at 39 dca.	Q156851	176.24	177.00	0.76	0.21	0.35	
			Q156850	176.24	177.00	0.76	0.24	0.35	
			Q156852	177.00	177.80	0.80	0.44	0.31	
177.80	178.64	**SYENOP Syenite with Graphitic Overprinting** Grey to dark grey with slight orange orthoclase tinge. Massive and very hard. Moderately mineralized. Lower contact sharp at 39 dca.	Q156853	177.80	178.64	0.84	1.04	0.38	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
178.64	202.56	**GRPBX Graphitic Breccia** Dark grey to black. Well mineralized. 194.80 to 195.22m Fault zone at 75 dca. Lower contact faulted at 55 dca.	Q156854	178.64	179.00	0.36	7.71	0.29	
			Q156856	179.00	180.00	1.00	6.96	0.26	
			Q156857	180.00	181.00	1.00	1.62	0.29	
			Q156858	181.00	182.00	1.00	8.85	0.24	
			Q156859	182.00	183.00	1.00	1.37	0.28	
			Q156860	183.00	184.00	1.00	0.19	0.28	
			Q156861	184.00	185.00	1.00	10.35	0.31	
			Q156862	185.00	186.00	1.00	8.84	0.24	
			Q156863	186.00	187.00	1.00	6.31	0.24	
			Q156865	187.00	188.00	1.00	7.74	0.27	
			Q156866	188.00	189.00	1.00	7.53	0.25	
			Q156867	189.00	190.00	1.00	4.8	0.26	
			Q156868	190.00	191.00	1.00	4.49	0.26	
			Q156869	191.00	192.00	1.00	10.3	0.33	
			Q156870	192.00	193.00	1.00	5.71	0.26	
			Q156871	192.00	193.00	1.00	5.63	0.28	
			Q156872	193.00	194.00	1.00	6.12	0.38	
			Q156873	194.00	195.00	1.00	8.77	0.26	
			Q156874	195.00	196.00	1.00	4.37	0.25	
			Q156876	196.00	197.00	1.00	7.76	0.27	
			Q156877	197.00	198.00	1.00	1.95	0.4	
			Q156878	198.00	199.00	1.00	10.25	0.63	
			Q156879	199.00	200.00	1.00	5.73	0.32	
			Q156880	200.00	201.00	1.00	6.37	0.22	
			Q156881	201.00	202.00	1.00	5.21	0.18	
			Q156882	202.00	202.56	0.56	7.53	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
202.56	207.00	**SYENOP Syenite with Graphitic Overprinting** Grey to dark grey with slight orange orthoclase tinge. Massive and very hard. Unit grades into lower syenite with no graphite.	Q156883	202.56	203.00	0.44	3.87	0.53	
			Q156885	203.00	204.00	1.00	1.12	0.34	
			Q156886	204.00	205.00	1.00	0.46	0.31	
			Q156887	205.00	206.00	1.00	0.76	0.31	
			Q156888	206.00	207.00	1.00	0.35	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
207.00 -	258.67	**SYEN Syenite** Grey with slight orange orthoclase tinge. Massive and very hard. Local minor graphite fracture filling. 229.15 to 229.49m Mafic dyke at 75 dca, UC 59 dca LC Lower contact at 65 dca.	Q156889	207.00	208.00	1.00	0.11	0.26	
			Q156890	208.00	209.00	1.00	0.47	0.36	
			Q156891	208.00	209.00	1.00	0.5	0.28	
			Q156892	209.00	210.00	1.00	1.1	0.28	
			Q156893	210.00	211.00	1.00	0.48	0.19	
			Q156894	211.00	212.00	1.00	0.95	0.29	
			Q156896	212.00	213.00	1.00	0.84	0.27	
			Q156897	213.00	214.00	1.00	0.37	0.25	
			Q156898	214.00	215.00	1.00	0.15	0.26	
			Q156899	215.00	216.00	1.00	0.13	0.27	
			Q156900	216.00	217.00	1.00	0.45	0.31	
			Q156901	217.00	218.00	1.00	0.29	0.3	
			Q156902	218.00	219.00	1.00	0.3	0.29	
			Q156903	219.00	220.00	1.00	0.18	0.27	
			Q156905	220.00	221.00	1.00	0.14	0.25	
			Q156906	221.00	222.00	1.00	0.22	0.26	
			Q156907	222.00	223.00	1.00	0.16	0.24	
			Q156908	223.00	224.00	1.00	0.25	0.2	
			Q156909	224.00	225.00	1.00	0.54	0.25	
			Q156910	225.00	226.00	1.00	0.03	0.21	
			Q156911	225.00	226.00	1.00	0.04	0.21	
			Q156912	226.00	227.00	1.00	0.06	0.22	
			Q156913	227.00	228.00	1.00	0.12	0.21	
			Q156914	228.00	229.15	1.15	0.1	0.17	
			Q156916	229.15	229.44	0.29	0.73	0.25	
			Q156917	229.44	230.00	0.56	0.3	0.18	
			Q156918	230.00	231.00	1.00	0.19	0.22	
			Q156919	231.00	232.00	1.00	0.06	0.18	
			Q156920	232.00	233.00	1.00	0.06	0.22	
			Q156921	233.00	234.00	1.00	0.19	0.19	
			Q156922	234.00	235.00	1.00	0.16	0.2	
			Q156923	235.00	236.00	1.00	0.1	0.22	
			Q156925	236.00	237.00	1.00	0.84	0.28	
			Q156926	237.00	238.00	1.00	0.67	0.25	
			Q156927	238.00	239.00	1.00	0.28	0.27	
			Q156928	239.00	240.00	1.00	2.13	0.38	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q156929	240.00	241.00	1.00	0.48	0.31	
			Q156930	241.00	242.00	1.00	0.17	0.27	
			Q156931	241.00	242.00	1.00	0.13	0.27	
			Q156932	242.00	243.00	1.00	0.11	0.24	
			Q156933	243.00	244.00	1.00	0.36	0.25	
			Q156934	244.00	245.00	1.00	0.23	0.2	
			Q156936	245.00	246.00	1.00	0.26	0.19	
			Q156937	246.00	247.00	1.00	0.23	0.17	
			Q156938	247.00	248.00	1.00	0.37	0.23	
			Q156939	248.00	249.00	1.00	0.05	0.18	
			Q156940	249.00	250.00	1.00	0.11	0.14	
			Q156941	250.00	251.00	1.00	0.12	0.19	
			Q156942	251.00	252.00	1.00	0.07	0.22	
			Q156943	252.00	253.00	1.00	0.08	0.2	
			Q156945	253.00	254.00	1.00	0.08	0.23	
			Q156946	254.00	255.00	1.00	0.07	0.24	
			Q156947	255.00	256.00	1.00	0.08	0.22	
			Q156948	256.00	257.00	1.00	0.09	0.19	
			Q156949	257.00	258.00	1.00	0.21	0.25	
			Q156951	258.00	258.67	0.67	0.36	0.17	
			Q156950	258.00	258.67	0.67	0.38	0.17	
258.67	- 259.58	**MDOP Mafic Dyke with Graphitic Overprinting** Green, Fine to medium grained. Massive and hard. Lower contact at 109 dca.	Q156952	258.67	259.58	0.91	0.59	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
259.58	285.00	**SYEN Syenite** Grey with slight orange orthoclase tinge. Massive and very hard. 270.65 to 270.86 Chlorite Biotite alteration at 67 dca. 270.98 to 271.07 Chlorite biotite alteration at 63 dca. 271.43 to 271.52 Chlorite biotite alteration at 37 dca. 271.58 to 271.74 Chlorite biotite alteration at 37 dca. 275.95 to 276.01 Fault at 25 dca. EOH 285.0m	Q156953	259.58	261.00	1.42	0.17	0.2	
			Q156954	261.00	262.00	1.00	0.08	0.18	
			Q156956	262.00	263.00	1.00	0.08	0.26	
			Q156957	263.00	264.00	1.00	0.1	0.2	
			Q156958	264.00	265.00	1.00	0.16	0.19	
			Q156959	265.00	266.00	1.00	0.11	0.19	
			Q156960	266.00	267.00	1.00	0.07	0.27	
			Q156961	267.00	268.00	1.00	0.07	0.23	
			Q156962	268.00	269.00	1.00	0.1	0.25	
			Q156963	269.00	270.00	1.00	0.12	0.25	
			Q156965	270.00	271.07	1.07	0.16	0.18	
			Q156966	271.07	272.00	0.93	0.37	0.1	
			Q156967	272.00	273.00	1.00	0.21	0.19	
			Q156968	273.00	274.00	1.00	0.13	0.16	
			Q156969	274.00	275.00	1.00	0.17	0.36	
			Q156970	275.00	276.00	1.00	0.51	0.15	
			Q156971	275.00	276.00	1.00	0.45	0.16	
			Q156972	276.00	277.00	1.00	0.19	0.18	
			Q156973	277.00	278.00	1.00	0.18	0.25	
			Q156974	278.00	279.00	1.00	0.26	0.2	
			Q156976	279.00	280.00	1.00	0.2	0.3	
			Q156977	280.00	281.00	1.00	0.67	0.29	
			Q156978	281.00	282.00	1.00	0.4	0.34	
			Q156979	282.00	283.00	1.00	0.33	0.36	
			Q156980	283.00	284.00	1.00	0.2	0.3	
			Q156981	284.00	285.00	1.00	1.72	0.32	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	387.11	22/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545716.4	682668.1			Reflex APS	26/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.60	299.40		-49.50	Chibougamau Diamond Drilling	27/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Clayton Kennedy	Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	312.11	*Casing Pulled*	*Casing (1)*	75.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To test the boundary of the West Pipe from the South East.	Syenite/overprinted syenite from 73.85m to 101.90m (just below seds) helps define boundary of pipe. 101.90m to 295.60m mostly breccia with intermittent units of pverprinted syenite, porphyritic intermediate dyke and unmineralized syenite sill. From 227.68m to 230.00m felsic dyke and porphyry dyke with strong overprinting. The assays from 83.00m to 295.06m averaged 3.20% Cg over 212.60m; within this intersection a higher grade graphite zone from 101.90m to 228.20m averaged 3.52% Cg over 126.30m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
201.00			308.1	299.1	-49	-49	☑	Reflex EZ	56369	
204.00			307.5	298.5	-49	-49	☑	Reflex EZ	56305	
207.00			307.6	298.6	-49.1	-49.1	☑	Reflex EZ	56322	
210.00			307.5	298.5	-49	-49	☑	Reflex EZ	56344	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
213.00			307.7	298.7	-49	-49	☑	Reflex EZ	56334	
216.00			307.8	298.8	-49	-49	☑	Reflex EZ	56359	
225.00			307.9	298.9	-49	-49	☑	Reflex EZ	56317	
228.00			308.4	299.4	-49	-49	☑	Reflex EZ	56053	
231.00			307.9	298.9	-48.9	-48.9	☑	Reflex EZ	56333	
234.00			307.6	298.6	-48.9	-48.9	☑	Reflex EZ	56361	
237.00			307.8	298.8	-48.9	-48.9	☑	Reflex EZ	56388	
240.00			308.1	299.1	-49	-49	☑	Reflex EZ	56879	
243.00			307.9	298.9	-48.9	-48.9	☑	Reflex EZ	56211	
246.00			307.7	298.7	-48.9	-48.9	☑	Reflex EZ	56326	
249.00			307.9	298.9	-48.9	-48.9	☑	Reflex EZ	56297	
252.00			307.8	298.8	-48.9	-48.9	☑	Reflex EZ	56349	
255.00			307.7	298.7	-48.9	-48.9	☑	Reflex EZ	56269	
258.00			307.8	298.8	-48.9	-48.9	☑	Reflex EZ	56383	
261.00			307.7	298.7	-48.9	-48.9	☑	Reflex EZ	56397	
267.00			308	299	-48.8	-48.8	☑	Reflex EZ	56407	
270.00			308.2	299.2	-48.8	-48.8	☑	Reflex EZ	56321	
273.00			307.8	298.8	-48.8	-48.8	☑	Reflex EZ	56387	
276.00			307.9	298.9	-48.8	-48.8	☑	Reflex EZ	56336	
279.00			307.9	298.9	-48.7	-48.7	☑	Reflex EZ	56368	
282.00			307.9	298.9	-48.8	-48.8	☑	Reflex EZ	56401	
285.00			307.9	298.9	-48.8	-48.8	☑	Reflex EZ	56361	
288.00			308	299	-48.8	-48.8	☑	Reflex EZ	56350	
291.00			308.1	299.1	-48.7	-48.7	☑	Reflex EZ	56398	
294.00			307.8	298.8	-48.7	-48.7	☑	Reflex EZ	56417	
297.00			308	299	-48.7	-48.7	☑	Reflex EZ	56398	
300.00			307.7	298.7	-48.7	-48.7	☑	Reflex EZ	56350	
306.00			307.6	298.6	-48.7	-48.7	☑	Reflex EZ	56091	
309.00			307.7	298.7	-48.6	-48.6	☑	Reflex EZ	56198	
312.00			307.7	298.7	-48.7	-48.7	☑	Reflex EZ	56233	
315.00			308.2	299.2	-48.7	-48.7	☑	Reflex EZ	56044	
318.00			308	299	-48.7	-48.7	☑	Reflex EZ	56557	
321.00			307.9	298.9	-48.7	-48.7	☑	Reflex EZ	56335	
324.00			307	298	-48.6	-48.6	☑	Reflex EZ	56124	
327.00			307.2	298.2	-48.7	-48.7	☑	Reflex EZ	56136	
330.00			307.5	298.5	-48.6	-48.6	☑	Reflex EZ	56216	
333.00			308.1	299.1	-48.7	-48.7	☑	Reflex EZ	56034	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
336.00			308.1	299.1	-48.7	-48.7	☑	Reflex EZ	56062	
339.00			308	299	-48.6	-48.6	☑	Reflex EZ	56196	
342.00			308	299	-48.7	-48.7	☑	Reflex EZ	56222	
345.00			308	299	-48.6	-48.6	☑	Reflex EZ	56210	
348.00			308.4	299.4	-48.6	-48.6	☑	Reflex EZ	56105	
351.00			308	299	-48.6	-48.6	☑	Reflex EZ	56159	
354.00			308	299	-48.5	-48.5	☑	Reflex EZ	56105	
357.00			308.7	299.7	-48.5	-48.5	☑	Reflex EZ	56174	
360.00			309	300	-48.5	-48.5	☑	Reflex EZ	56040	
363.00			309.2	300.2	-48.5	-48.5	☑	Reflex EZ	56277	
372.00			307.7	298.7	-48.5	-48.5	☑	Reflex EZ	55987	
378.00			307.7	298.7	-48.5	-48.5	☑	Reflex EZ	56238	
381.00			308	299	-48.4	-48.4	☑	Reflex EZ	56356	
384.00			308.1	299.1	-48.4	-48.4	☑	Reflex EZ	56294	
387.00			308.3	299.3	-48.4	-48.4	☑	Reflex EZ	56207	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00 -	71.00	**OB Overburden**							
71.00 -	73.85	**SED Sediment** White, pale brown and grey limestone. Very weathered and rubbly contact, unconformity.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
73.85	- 99.00	**SYEN Syenite** Grey to pale pink, fine to medium grained mostly massive with some localized areas of mild foliation. White carbonate fracture filling throughout. Localized graphite fracture filling of fractures up to 0.5cm wide. 90.90-91.85m fault, brownish red fault gouge with a small amount of rubble. Upper Contact @ 153dca/ lower contact rubbly and unmeasurable. Lower contact transitional at ~52dca.	N549823	73.85	75.00	1.15	0.02	0.01	
			N549825	75.00	76.00	1.00	0.17	0.01	
			N549826	76.00	77.00	1.00	0.25	0.01	
			N549827	77.00	78.00	1.00	0.09	0.005	
			N549828	78.00	79.00	1.00	0.15	0.005	
			N549829	79.00	80.00	1.00	0.11	0.005	
			N549830	80.00	81.00	1.00	0.06	0.01	
			N549831	80.00	81.00	1.00	0.11	0.01	
			N549832	81.00	82.00	1.00	0.16	0.01	
			N549833	82.00	83.00	1.00	0.05	0.02	
			N549834	83.00	84.00	1.00	0.56	0.02	
			N549836	84.00	85.00	1.00	0.09	0.06	
			N549837	85.00	86.00	1.00	0.1	0.05	
			N549838	86.00	87.00	1.00	0.25	0.08	
			N549839	87.00	88.00	1.00	0.1	0.02	
			N549840	88.00	89.00	1.00	0.33	0.02	
			N549841	89.00	90.00	1.00	0.06	0.03	
			N549842	90.00	90.80	0.80	0.35	0.05	
			N549843	90.80	91.85	1.05	0.69	0.03	
			N549845	91.85	93.00	1.15	0.24	0.1	
			N549846	93.00	94.00	1.00	0.51	0.1	
			N549847	94.00	95.00	1.00	0.62	0.09	
			N549848	95.00	96.00	1.00	0.18	0.07	
			N549849	96.00	97.00	1.00	0.13	0.07	
			N549850	97.00	98.00	1.00	0.19	0.09	
			N549851	97.00	98.00	1.00	0.16	0.11	
			N549852	98.00	99.00	1.00	0.36	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
99.00	- 101.90	**SYENOP Syenite with Graphitic Overprinting** Dark grey with pink sections. The dark grey areas have white and grey crystal fragments of the original syenite. There are small localized areas of breccia with a graphite rich matrix. Lower contact sharp at 45dca.	N549853	99.00	100.00	1.00	2.27	0.03	
			N549854	100.00	101.00	1.00	2.12	0.03	
			N549856	101.00	101.90	0.90	3.3	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
101.90	151.40	**GRPBX Graphitic Breccia** Fragments 0.1-30cm in size, angular to sub-rounded, grey to pink in colour. Some fragments are more overprinted than others and are darker grey. Larger fragments also have graphite fracture filling. 101.9-105 carbonate fracture filling. 105.13-106.08 overprinted syenite section with weak graphite fracture filling. 112.86-113.98 overprinted syenite with graphite fracture filling and zones of chlorite alteration. 121.00-127.00 still brecciated but having close to 35% larger overprinted syenite fragments with strong graphite fracture filling. There are also two porphyritic intermediate dykes cutting irregularly through the core at 121.75m-122.27m and 126.00-126.35m. 127.60-128.18 possibly an overprinted mafic dyke? Dark green chlorite alteration. 131.97-133.08 overprinted syenite with strong fracture filling and localized brecciation. Some remnant banding or foliation? 141.50 and 144.90 possible fault zones with strong fracturing and hematite staining. 144.20-147.29 still breccia but with larger overprinted syenite fragments with graphite fracture filling making up 30% of the area. Lower contact irregular.	N549857	101.90	103.00	1.10	4.58	0.04	
			N549858	103.00	104.00	1.00	7.55	0.04	
			N549859	104.00	105.13	1.13	4.42	0.03	
			N549860	105.13	106.08	0.95	0.84	0.11	
			N549861	106.08	107.00	0.92	2.97	0.04	
			N549862	107.00	108.00	1.00	5.2	0.04	
			N549863	108.00	109.00	1.00	6.2	0.04	
			N549865	109.00	110.00	1.00	4.33	0.06	
			N549866	110.00	111.00	1.00	4.6	0.03	
			N549867	111.00	112.00	1.00	1.23	0.07	
			N549868	112.00	112.76	0.76	1.31	0.06	
			N549869	112.76	113.98	1.22	0.11	0.21	
			N549870	113.98	115.00	1.02	1.91	0.12	
			N549871	113.98	115.00	1.02	2.01	0.11	
			N549872	115.00	116.00	1.00	4.84	0.09	
			N549873	116.00	117.00	1.00	4.84	0.05	
			N549874	117.00	118.00	1.00	5.44	0.1	
			N549876	118.00	119.00	1.00	1.65	0.14	
			N549877	119.00	120.00	1.00	2.23	0.14	
			N549878	120.00	121.00	1.00	3.02	0.19	
			N549879	121.00	122.00	1.00	0.71	0.21	
			N549880	122.00	123.00	1.00	1.5	0.23	
			N549881	123.00	124.00	1.00	1.73	0.22	
			N549882	124.00	125.00	1.00	2.95	0.23	
			N549883	125.00	126.00	1.00	2.97	0.07	
			N549885	126.00	127.00	1.00	1.83	0.14	
			N549886	127.00	128.00	1.00	3.4	0.05	
			N549887	128.00	129.00	1.00	5.06	0.13	
			N549888	129.00	130.00	1.00	2.86	0.23	
			N549889	130.00	131.00	1.00	6.27	0.18	
			N549890	131.00	131.97	0.97	6.53	0.19	
			N549891	131.00	131.97	0.97	6.85	0.21	
			N549892	131.97	133.08	1.11	3.24	0.08	
			N549893	133.08	134.00	0.92	13.85	0.13	
			N549894	134.00	135.00	1.00	2.64	0.4	
			N549896	135.00	136.00	1.00	8.13	0.45	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N549897	136.00	137.00	1.00	4.75	0.17	
			N549898	137.00	138.00	1.00	2.22	0.26	
			N549899	138.00	139.00	1.00	3.11	0.34	
			N549900	139.00	140.00	1.00	3.65	0.29	
			N549901	140.00	141.00	1.00	4.56	0.17	
			N549902	141.00	142.00	1.00	2.81	0.12	
			N549903	142.00	143.00	1.00	2.12	0.2	
			N549905	143.00	144.20	1.20	5.51	0.25	
			N549906	144.20	145.00	0.80	2.4	0.19	
			N549907	145.00	146.00	1.00	2.86	0.24	
			N549908	146.00	147.29	1.29	2.27	0.25	
			N549909	147.29	148.00	0.71	2.81	0.17	
			N549910	148.00	149.00	1.00	3.38	0.14	
			N549911	148.00	149.00	1.00	3.2	0.15	
			N549912	149.00	150.00	1.00	2.33	0.18	
			N549913	150.00	151.00	1.00	2.46	0.09	
			N549914	151.00	151.40	0.40	1.84	0.07	
151.40	156.80	**IDP Intermediate Dike (Porphyritic)**							
		Grey fine grained rock with white/light grey, pink and green phenocrysts. No graphite associated with this unit. Some thin carbonate filled fractures. 156.20-156.23 carbonate vein at 30dca. Lower contact at 60dca.	N549916	151.40	152.00	0.60	0.09	0.19	
			N549917	152.00	153.00	1.00	0.05	0.11	2.75
			N549918	153.00	154.00	1.00	0.07	0.09	2.77
			N549919	154.00	155.00	1.00	0.08	0.06	2.77
			N549920	155.00	156.00	1.00	0.06	0.12	2.78
			N549921	156.00	156.80	0.80	0.07	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
156.80 -	191.18	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments surrounded by a graphite rich matrix. Fragments range from <1cm to ~40cm, there are larger sections >50cm of overprinted syenite within this unit. Syenite makes up ~30% of this unit. There is graphite mild to moderate fracture filling and weak to moderate overprinting present in the larger syenite areas. There is trace pyrite throughout this unit. 156.80-156.97 strongly overprinted mafic dyke with chlorite and biotite alteration. UC @ 60dca/LC @ 50dca. 157.15-157.25 strongly chlorite and biotite altered section. 181.57-181.75 overprinted mafic dyke with chlorite and biotite alteration UC and LC @ 70dca. Lower contact sharp at 32dca.	N549922	156.80	157.40	0.60	2.9	0.52	
			N549923	157.40	158.00	0.60	3.87	0.19	
			N549925	158.00	159.00	1.00	0.96	0.13	
			N549926	159.00	160.00	1.00	5.44	0.19	
			N549927	160.00	161.00	1.00	4.82	0.34	
			N549928	161.00	162.00	1.00	1.1	0.26	
			N549929	162.00	163.00	1.00	4.83	0.18	
			N549931	163.00	164.00	1.00	4.98	0.25	
			N549930	163.00	164.00	1.00	4.99	0.26	
			N549932	164.00	165.00	1.00	6.18	0.38	
			N549933	165.00	166.00	1.00	5.22	0.51	
			N549934	166.00	167.00	1.00	0.96	0.21	
			N549936	167.00	168.00	1.00	3.57	0.31	
			N549937	168.00	169.00	1.00	2.69	0.33	
			N549938	169.00	170.00	1.00	2.21	0.41	
			N549939	170.00	171.00	1.00	2.11	0.5	
			N549940	171.00	172.00	1.00	3.63	0.23	
			N549941	172.00	173.00	1.00	2.26	0.47	
			N549942	173.00	174.00	1.00	4.11	0.41	
			N549943	174.00	175.00	1.00	2.68	0.4	
			N549945	175.00	176.00	1.00	2.4	0.26	
			N549946	176.00	177.00	1.00	2.86	0.4	
			N549947	177.00	178.00	1.00	4.8	0.37	
			N549948	178.00	179.00	1.00	1	0.05	
			N549949	179.00	180.00	1.00	4.86	0.21	
			N549951	180.00	181.00	1.00	2.13	0.13	
			N549950	180.00	181.00	1.00	2.11	0.13	
			N549952	181.00	182.00	1.00	5.01	0.87	
			N549953	182.00	183.00	1.00	2.98	0.12	
			N549954	183.00	184.00	1.00	6.55	0.49	
			N549956	184.00	185.00	1.00	3.44	0.23	
			N549957	185.00	186.00	1.00	0.43	0.1	
			N549958	186.00	187.00	1.00	2.54	0.24	
			N549959	187.00	188.00	1.00	2.82	0.2	
			N549960	188.00	189.00	1.00	2.52	0.36	
			N549961	189.00	190.00	1.00	6.18	0.54	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N549962	190.00	191.18	1.18	7.97	0.41	
191.18 -	193.16	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained. Local graphitic fracture filling. 191.40-191.77 pale pink, white grey/black medium to coarse grained granodiorite, possible weak overprinting. Irregular but distinguishable contacts. Lower contact sharp at 107dca.	N549963	191.18	192.00	0.82	0.38	0.23	
			N549965	192.00	193.16	1.16	0.97	0.16	
193.16 -	207.00	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments surrounded by a graphite rich matrix. Fragments range from <1cm to ~40cm, there are larger sections >50cm of overprinted syenite within this unit. Syenite makes up ~30% of this unit. There is graphite mild to moderate fracture filling and weak to moderate overprinting present in the larger syenite areas. There is trace pyrite throughout this unit. 197.13-197.20 strong chlorite altered zone. 201.97-202.03 grey to pale pink fine grained felsic dyke, UC and LC @ 53dca. 204.01-204.08 white and deep red fine grained dyke, UC and LC @ 53dca. Lower contact sharp at 84dca.	N549966	193.16	194.00	0.84	5.31	0.47	
			N549967	194.00	195.00	1.00	3.88	0.19	
			N549968	195.00	196.00	1.00	4.71	0.55	
			N549969	196.00	197.00	1.00	2.32	0.38	
			N549971	197.00	198.00	1.00	3.94	0.58	
			N549970	197.00	198.00	1.00	4.04	0.58	
			N549972	198.00	199.00	1.00	7.36	0.41	
			N549973	199.00	200.00	1.00	5.31	0.38	
			N549974	200.00	201.00	1.00	4.06	0.39	
			N549976	201.00	202.00	1.00	4.08	0.38	
			N549977	202.00	203.00	1.00	3.99	0.38	
			N549978	203.00	204.00	1.00	5.53	0.5	
			N549979	204.00	205.00	1.00	3.41	0.19	
			N549980	205.00	206.00	1.00	7.51	0.49	
			N549981	206.00	207.00	1.00	6.16	0.6	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
207.00	211.68	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained. Local graphitic fracture filling and brecciation with a graphite rich matrix. Lower contact sharp at 114dca.	N549982	207.00	208.00	1.00	0.05	0.15	
			N549983	208.00	209.00	1.00	0.5	0.2	
			N549985	209.00	210.00	1.00	1.66	0.21	
			N549986	210.00	211.00	1.00	1.82	0.23	
			N549987	211.00	211.68	0.68	1.48	0.18	
211.68	227.68	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments surrounded by a graphite rich matrix. Fragments range from <1cm to ~40cm, there are larger sections >50cm of overprinted syenite within this unit. Syenite makes up ~30% of this unit. There is graphite mild to moderate fracture filling and weak to moderate overprinting present in the larger syenite areas. There is trace pyrite throughout this unit. 215.23-215.74 grey fine grained felsic dyke with moderate fracturing and hematite staining between 215.60-215.74. Lower contact very sharp at 68dca.	N549988	211.68	212.35	0.67	3.46	0.33	
			N549989	212.35	213.00	0.65	6.26	0.6	
			N549990	213.00	214.00	1.00	7.32	0.56	
			N549991	213.00	214.00	1.00	7.43	0.53	
			N549992	214.00	215.00	1.00	6.36	0.76	
			N549993	215.00	216.00	1.00	0.51	0.21	
			N549994	216.00	217.00	1.00	2.38	0.42	
			N549996	217.00	218.00	1.00	4.21	0.46	
			N549997	218.00	219.00	1.00	4.45	0.19	
			N549998	219.00	220.00	1.00	4.73	0.32	
			N549999	220.00	221.00	1.00	6.84	0.44	
			N550000	221.00	222.00	1.00	5.59	0.86	
			N550001	222.00	223.00	1.00	5.14	0.37	
			N550002	223.00	224.00	1.00	3.8	0.26	
			N550003	224.00	225.00	1.00	2.56	0.17	
			N550005	225.00	226.00	1.00	1.27	0.13	
			N550006	226.00	227.00	1.00	2.03	0.31	
			N550007	227.00	227.68	0.68	1.16	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
227.68	228.20	**FDOP Felsic Dyke with Graphitic Overprinting** Dark grey aphanitic. There is visible banding/foliation with graphite rich zones. These bands are 1-3mm wide. This rock looks glassy. Lower contact irregular at 38dca.	N550008	227.68	228.20	0.52	10.8	0.38	
228.20	230.00	**FPOP Feldspar Porphyry with Graphitic Overprinting** Dark grey fine grained rock with irregular shaped phenocrysts 1-10mm in size some exhibit mild stretching. The stretched phenocrysts seem to overprint the non stretched ones and have a mild fabric to their stretching at ~30dca. These stretched phenocrysts also seem to have less graphitic overprinting than the non stretched ones. This unit looks strangely similar to a tuff?? 229.74-229.85 irregular felsic dyke. Lower contact sharp at 30dca.	N550009	228.20	229.00	0.80	0.04	0.12	
			N550011	229.00	230.00	1.00	0.15	0.12	
			N550010	229.00	230.00	1.00	0.16	0.13	
230.00	238.48	**GRPBX Graphitic Breccia** Angular to sub-rounded fragments surrounded by a graphite rich matrix. Fragments range from <1cm to ~40cm, there are larger sections >50cm of overprinted syenite within this unit. Syenite makes up ~30% of this unit. There is graphite mild to moderate fracture filling and weak to moderate overprinting present in the larger syenite areas. There is trace pyrite throughout this unit. 231.15-231.22 grey felsic dyke with graphitic fracture filling. Upper Contact @ 127dca/LC @ 94 dca. 235.62-235.89 grey fine grained rock with 3mm phenocrysts possibly feldspars. Upper Contact @ 137/irregular lower contact. Lower contact sharp at 115dca.	N550012	230.00	231.00	1.00	3.88	0.58	
			N550013	231.00	232.00	1.00	4.17	0.41	
			N550014	232.00	233.00	1.00	2.87	0.29	
			N550016	233.00	234.00	1.00	2.18	0.14	
			N550017	234.00	235.00	1.00	2.03	0.29	
			N550018	235.00	236.00	1.00	3.02	0.67	
			N550019	236.00	237.00	1.00	5.36	0.59	
			N550020	237.00	238.00	1.00	4.94	0.41	
			N550021	238.00	238.48	0.48	5.1	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
238.48	253.95	**SYENSL Syenite Sill (unmineralized)** Grey green medium to coarse grained with localized siliceous areas. Chlorite fracture filling. 240.93-241.40 Porphyritic Intermediate Dyke and breccia. The dyke is weakly conductive and the breccia has a graphite rich matrix. UC and LC at 105dca. 242.98-243.32 Porphyritic Intermediate Dyke with weak conductivity. UC and UC @ 75dca. 247.72-24845 an area of breccia with a mostly felsic matrix although some of the matrix does seem to be darker possibly due to graphite. Lower contact at 115dca.	N550022	238.48	239.00	0.52	0.26	0.46	
			N550023	239.00	240.00	1.00	0.09	0.42	
			N550025	240.00	240.93	0.93	0.03	0.07	
			N550026	240.93	241.40	0.47	1.02	0.34	
			N550027	241.40	242.00	0.60	0.09	0.19	
			N550028	242.00	242.98	0.98	0.05	0.21	
			N550029	242.98	243.32	0.34	0.13	0.05	
			N550031	243.32	244.00	0.68	0.04	0.32	
			N550030	243.32	244.00	0.68	0.06	0.33	
			N550032	244.00	245.00	1.00	0.06	0.18	
			N550033	245.00	246.00	1.00	0.21	0.14	
			N550034	246.00	247.00	1.00	0.09	0.12	
			N550036	247.00	247.72	0.72	0.14	0.1	
			N550037	247.72	248.45	0.73	1.06	0.09	
			N550038	248.45	249.00	0.55	0.18	0.28	
			N550039	249.00	250.00	1.00	0.08	0.1	
			N550040	250.00	251.00	1.00	0.1	0.02	
			N550041	251.00	252.00	1.00	0.08	0.02	
			N550042	252.00	253.00	1.00	0.05	0.08	
			N550043	253.00	253.95	0.95	0.1	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
253.95	277.78	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments ranging from <1-30cm in size. Most have moderate to strong overprinting and the larger fragments have graphite fracture filling. 262.70-263.43 small unmineralized syenite section UC @ 106dca/LC @ 28dca.	N550045	253.95	255.00	1.05	6.49	0.97	
			N550046	255.00	256.00	1.00	4.74	0.31	2.58
			N550047	256.00	257.00	1.00	5.17	0.49	2.65
			N550048	257.00	258.00	1.00	7.44	0.55	2.62
			N550049	258.00	259.00	1.00	4.71	0.4	2.63
			N550050	259.00	260.00	1.00	5.5	0.56	2.81
			N550051	259.00	260.00	1.00	5.54	0.53	
			N550052	260.00	261.00	1.00	4.33	0.61	
			N550053	261.00	262.00	1.00	5.76	0.44	
			N550054	262.00	262.70	0.70	4.45	0.53	
			N550056	262.70	263.43	0.73	0.65	0.38	
			N550057	263.43	264.00	0.57	3.96	0.32	
			N550058	264.00	265.00	1.00	5.9	0.65	
			N550059	265.00	266.00	1.00	4.87	0.66	
			N550060	266.00	267.00	1.00	4.67	0.6	
			N550061	267.00	268.00	1.00	1.97	0.63	
			N550062	268.00	269.00	1.00	3.99	0.47	
			N550063	269.00	270.00	1.00	5.71	0.41	
			N550065	270.00	271.00	1.00	6.47	0.56	
			N550066	271.00	272.00	1.00	6.55	0.72	
			N550067	272.00	273.00	1.00	4.67	1.13	
			N550068	273.00	274.00	1.00	6.03	0.8	
			N550069	274.00	275.00	1.00	6.24	0.47	
			N550070	275.00	276.00	1.00	4.63	0.33	
			N550071	275.00	276.00	1.00	4.67	0.33	
			N550072	276.00	277.00	1.00	5.49	0.72	
			N550073	277.00	277.78	0.78	3.83	0.29	
277.78	280.16	**SYENSL Syenite Sill (unmineralized)** Grey green, medium to coarse grained. Chlorite fracture filling.	N550074	277.78	279.00	1.22	0.01	0.11	
			N550076	279.00	280.16	1.16	0.02	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
280.16	295.60	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments ranging from <1-15cm in size. Fragments are moderately overprinted. 282 thin gouge filled fault @ 160dca. 294.13-294.61 area with multiple felsic ~10cm dykes with irregular contacts	N550077	280.16	281.00	0.84	2.73	0.21	
			N550078	281.00	282.00	1.00	2.69	0.28	
			N550079	282.00	283.00	1.00	4.72	0.33	
			N550080	283.00	284.00	1.00	3.7	0.28	
			N550081	284.00	285.00	1.00	4.29	0.32	
			N550082	285.00	286.00	1.00	3.76	0.32	
			N550083	286.00	287.00	1.00	4.85	0.22	
			N550085	287.00	288.00	1.00	3.99	0.42	
			N550086	288.00	289.00	1.00	2.52	0.38	
			N550087	289.00	290.00	1.00	4.3	0.46	
			N550088	290.00	291.00	1.00	6.54	0.6	
			N550089	291.00	292.00	1.00	6.1	0.46	
			N550090	292.00	293.00	1.00	5.82	0.44	
			N550092	293.00	294.00	1.00	5.28	0.27	
			N550093	294.00	295.00	1.00	5.1	0.43	
			N550094	295.00	295.60	0.60	4.72	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
295.60	387.11	**SYENSL Syenite Sill (unmineralized)** Grey green medium to coarse grained with localized siliceous areas. Chlorite fracture filling. 297.10-297.39 Porphyritic Intermediate Dyke. UC @ 48dca/LC @ 70dca. 297.68-297.93 Porphyritic Intermediate Dyke. UC and LC @ 90dca. 298.35-298.66 Porphyritic Intermediate Dyke. UC @ 48dca/LC @ 128dca. 333.00-333.20 fault, chlorite altered rubble. 364.00-368.00 moderate fracturing and localized hematite staining, possible fracture/fault zone. EOH 387.11m	N550096	295.60	296.45	0.85	0.02	0.07	
			N550097	296.45	297.10	0.65	0.01	0.01	
			N550098	297.10	297.93	0.83	0.03	0.04	
			N550099	297.93	299.00	1.07	0.02	0.03	
			N550100	299.00	300.50	1.50	0.02	0.02	
			N550101	300.50	302.00	1.50	0.01	0.04	
			N550102	302.00	303.50	1.50	0.02	0.04	
			N550103	303.50	305.00	1.50	0.01	0.04	
			N550105	305.00	306.50	1.50	0.01	0.01	
			N550106	306.50	308.00	1.50	0.01	0.01	
			N550107	308.00	309.50	1.50	0.01	0.02	
			N550108	309.50	311.00	1.50	0.02	0.02	
			N550109	311.00	312.50	1.50	0.03	0.02	
			N550110	312.50	314.00	1.50	0.02	0.02	
			N550111	312.50	314.00	1.50	0.04	0.02	
			N550112	314.00	315.50	1.50	0.04	0.01	
			N550113	315.50	317.00	1.50	0.01	0.03	
			N550114	317.00	318.50	1.50	0.02	0.02	
			N550116	318.50	320.00	1.50	0.01	0.01	
			N550117	320.00	321.50	1.50	0.01	0.02	
			N550118	321.50	323.00	1.50	0.01	0.02	
			N550119	323.00	324.50	1.50	0.08	0.01	
			N550120	324.50	326.00	1.50	0.03	0.01	
			N550121	326.00	327.50	1.50	0.03	0.02	
			N550122	327.50	329.00	1.50	0.03	0.04	
			N550123	329.00	330.50	1.50	0.04	0.6	
			N550125	330.50	332.00	1.50	0.03	0.06	
			N550126	332.00	333.50	1.50	0.17	0.02	
			N550127	333.50	335.00	1.50	0.01	0.02	
			N550128	335.00	336.50	1.50	0.01	0.02	
			N550129	336.50	338.00	1.50	0.01	0.02	
			N550130	338.00	339.50	1.50	0.02	0.03	
			N550131	338.00	339.50	1.50	0.01	0.03	
			N550132	339.50	341.00	1.50	0.01	0.02	
			N550133	341.00	342.50	1.50	0.01	0.02	
			N550134	342.50	344.00	1.50	0.02	0.03	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N550136	344.00	345.50	1.50	0.01	0.02	
		N550137	345.50	347.00	1.50	0.01	0.02	
		N550138	347.00	348.50	1.50	0.02	0.03	
		N550139	348.50	350.00	1.50	0.01	0.02	
		N550140	350.00	351.50	1.50	0.01	0.02	
		N550141	351.50	353.00	1.50	0.01	0.01	
		N550142	353.00	354.50	1.50	0.01	0.02	
		N550143	354.50	356.00	1.50	0.05	0.08	
		N550145	356.00	357.50	1.50	0.03	0.01	
		N550146	357.50	359.00	1.50	0.01	0.03	
		N550147	359.00	360.50	1.50	0.01	0.03	
		N550148	360.50	362.00	1.50	0.01	0.01	
		N550149	362.00	363.50	1.50	0.01	0.01	
		N550151	363.50	365.00	1.50	0.02	0.01	
		N550150	363.50	365.00	1.50	0.01	0.01	
		N550152	365.00	366.50	1.50	0.01	0.04	
		N550153	366.50	368.00	1.50	0.06	0.05	
		N550154	368.00	369.50	1.50	0.09	0.03	
		N550156	369.50	371.00	1.50	0.04	0.02	2.68
		N550157	371.00	372.50	1.50	0.05	0.06	2.69
		N550158	372.50	374.00	1.50	0.03	0.04	2.7
		N550159	374.00	375.50	1.50	0.01	0.03	2.67
		N550160	375.50	377.00	1.50	0.02	0.02	2.68
		N550161	377.00	378.50	1.50	0.04	0.01	
		N550162	378.50	380.00	1.50	0.03	0.01	
		N550163	380.00	381.50	1.50	0.02	0.03	
		N550165	381.50	383.00	1.50	0.01	0.02	
		N550166	383.00	384.50	1.50	0.02	0.02	
		N550167	384.50	386.00	1.50	0.03	0.03	
		N550168	386.00	387.11	1.11	0.11	0.08	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	390.00	26/09/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545645.6	682630.9			Reflex APS		27/09/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	125.50	299.80		-55.00	Chibougamau Diamond Drilling		29/09/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Mike Roberts		Mike Roberts		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	324	Casing Pulled	Casing (1)	66.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
To test West Pipe from the south east.	Graphite rich breccia package from 101.16m to 207.00m with some minor overprinted syenite and lampophyre. Second smaller graphite rich breccia package from 258.36m to 311.24m with minor overprinted syenite and unmineralized syenite sill. From 100.16m to 103.66m and 106.00m to 108.61m very fine grained breccia, matrix dominant with small 1mm fragments. From 63.00m to 220.00m, the assays from this intersection averaged 2.85% Cg over 157.00m; within this intersection a higher grade graphite zone from 100.16m to 206.00m averaged 3.86% Cg over 105.84m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			298.8	298.8	-55.6	-55.6	☑	Reflex EZ	56102	
93.00			298.8	298.8	-55.6	-55.6	☑	Reflex EZ	56065	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
96.00			298.8	298.8	-55.6	-55.6	☑	Reflex EZ	56053	
99.00			298.8	298.8	-55.6	-55.6	☑	Reflex EZ	56057	
105.00			298.7	298.7	-55.6	-55.6	☑	Reflex EZ	56099	
108.00			299	299	-55.7	-55.7	☑	Reflex EZ	56039	
111.00			299	299	-55.7	-55.7	☑	Reflex EZ	56030	
114.00			299	299	-55.6	-55.6	☑	Reflex EZ	56019	
117.00			298.8	298.8	-55.5	-55.5	☑	Reflex EZ	56004	
120.00			300.7	300.7	-55.6	-55.6	☑	Reflex EZ	56381	
123.00			299.5	299.5	-55.6	-55.6	☑	Reflex EZ	56070	
126.00			298.8	298.8	-55.4	-55.4	☑	Reflex EZ	56022	
129.00			299	299	-55.6	-55.6	☑	Reflex EZ	55999	
132.00			298.9	298.9	-55.6	-55.6	☑	Reflex EZ	56000	
135.00			298.9	298.9	-55.6	-55.6	☑	Reflex EZ	55978	
138.00			298.9	298.9	-55.6	-55.6	☑	Reflex EZ	55973	
141.00			298.8	298.8	-55.7	-55.7	☑	Reflex EZ	56132	
144.00			298.6	298.6	-55.5	-55.5	☑	Reflex EZ	56041	
147.00			298.5	298.5	-55.5	-55.5	☑	Reflex EZ	56005	
150.00			298.3	298.3	-55.5	-55.5	☑	Reflex EZ	56001	
153.00			298.8	298.8	-55.4	-55.4	☑	Reflex EZ	55998	
156.00			298.6	298.6	-55.4	-55.4	☑	Reflex EZ	55994	
159.00			298.6	298.6	-55.4	-55.4	☑	Reflex EZ	56015	
162.00			298.7	298.7	-55.4	-55.4	☑	Reflex EZ	56068	
165.00			298.7	298.7	-55.4	-55.4	☑	Reflex EZ	56088	
168.00			298.7	298.7	-55.4	-55.4	☑	Reflex EZ	56093	
171.00			298.9	298.9	-55.3	-55.3	☑	Reflex EZ	56090	
174.00			299	299	-55.3	-55.3	☑	Reflex EZ	56094	
177.00			298.8	298.8	-55.4	-55.4	☑	Reflex EZ	56096	
180.00			298.9	298.9	-55.4	-55.4	☑	Reflex EZ	56084	
183.00			299.1	299.1	-55.3	-55.3	☑	Reflex EZ	56064	
186.00			299.2	299.2	-55.2	-55.2	☑	Reflex EZ	56033	
189.00			299.4	299.4	-55.2	-55.2	☑	Reflex EZ	56127	
192.00			299	299	-55.2	-55.2	☑	Reflex EZ	56034	
195.00			298.7	298.7	-55.2	-55.2	☑	Reflex EZ	56046	
198.00			299.2	299.2	-55.2	-55.2	☑	Reflex EZ	55998	
201.00			299.1	299.1	-55.2	-55.2	☑	Reflex EZ	55972	
204.00			299.1	299.1	-55.2	-55.2	☑	Reflex EZ	56011	
207.00			298.9	298.9	-55	-55	☑	Reflex EZ	56018	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			299	299	-55.1	-55.1	☑	Reflex EZ	55990	
213.00			297.8	297.8	-55	-55	☑	Reflex EZ	56634	
216.00			298.9	298.9	-55.1	-55.1	☑	Reflex EZ	55988	
219.00			298.8	298.8	-55.2	-55.2	☑	Reflex EZ	55930	
222.00			298	298	-55	-55	☑	Reflex EZ	56090	
225.00			298.3	298.3	-55	-55	☑	Reflex EZ	56148	
228.00			298.3	298.3	-54.9	-54.9	☑	Reflex EZ	56050	
231.00			298.4	298.4	-54.9	-54.9	☑	Reflex EZ	56332	
234.00			298.7	298.7	-54.8	-54.8	☑	Reflex EZ	56176	
237.00			298	298	-55	-55	☑	Reflex EZ	56699	
240.00			299.4	299.4	-55	-55	☑	Reflex EZ	56040	
243.00			297.9	297.9	-55	-55	☑	Reflex EZ	55964	
246.00			299	299	-55	-55	☑	Reflex EZ	55817	
249.00			299	299	-55	-55	☑	Reflex EZ	56384	
252.00			299	299	-55	-55	☑	Reflex EZ	56214	
255.00			299.8	299.8	-54.9	-54.9	☑	Reflex EZ	56292	
258.00			299.3	299.3	-55	-55	☑	Reflex EZ	56405	
261.00			300	300	-54.9	-54.9	☑	Reflex EZ	56198	
264.00			300	300	-54.9	-54.9	☑	Reflex EZ	56140	
267.00			299.7	299.7	-54.9	-54.9	☑	Reflex EZ	56238	
270.00			299.3	299.3	-54.8	-54.8	☑	Reflex EZ	56161	
273.00			300	300	-54.8	-54.8	☑	Reflex EZ	56218	
276.00			299.9	299.9	-54.8	-54.8	☑	Reflex EZ	56241	
279.00			300	300	-54.7	-54.7	☑	Reflex EZ	56192	
282.00			300.1	300.1	-54.7	-54.7	☑	Reflex EZ	56243	
285.00			299.8	299.8	-54.6	-54.6	☑	Reflex EZ	56244	
288.00			299.8	299.8	-54.6	-54.6	☑	Reflex EZ	56223	
291.00			299.9	299.9	-54.6	-54.6	☑	Reflex EZ	56238	
294.00			299.9	299.9	-54.5	-54.5	☑	Reflex EZ	56149	
297.00			300.1	300.1	-54.5	-54.5	☑	Reflex EZ	56228	
300.00			300	300	-54.5	-54.5	☑	Reflex EZ	56226	
303.00			299.4	299.4	-54.5	-54.5	☑	Reflex EZ	55823	
306.00			299.5	299.5	-54.4	-54.4	☑	Reflex EZ	56116	
309.00			299.2	299.2	-54.4	-54.4	☑	Reflex EZ	55557	
312.00			299.6	299.6	-54.2	-54.2	☑	Reflex EZ	55801	
315.00			298.9	298.9	-54.2	-54.2	☑	Reflex EZ	55663	
318.00			299.9	299.9	-54.2	-54.2	☑	Reflex EZ	55900	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
321.00			299.6	299.6	-54.2	-54.2	☑	Reflex EZ	56287	
324.00			299.7	299.7	-54.2	-54.2	☑	Reflex EZ	55860	
327.00			300.1	300.1	-54.2	-54.2	☑	Reflex EZ	56223	
330.00			299.7	299.7	-54.2	-54.2	☑	Reflex EZ	56133	
333.00			299.3	299.3	-54.2	-54.2	☑	Reflex EZ	55665	
336.00			300	300	-54.2	-54.2	☑	Reflex EZ	55772	
339.00			299.5	299.5	-54.2	-54.2	☑	Reflex EZ	55786	
342.00			299.7	299.7	-54.1	-54.1	☑	Reflex EZ	55840	
345.00			299.4	299.4	-54.1	-54.1	☑	Reflex EZ	55779	
348.00			300.3	300.3	-54.1	-54.1	☑	Reflex EZ	55910	
357.00			299.8	299.8	-54	-54	☑	Reflex EZ	55639	
360.00			299.7	299.7	-54	-54	☑	Reflex EZ	55776	
363.00			299.4	299.4	-54.2	-54.2	☑	Reflex EZ	55628	
366.00			300.7	300.7	-54.2	-54.2	☑	Reflex EZ	56130	
369.00			300.9	300.9	-54.1	-54.1	☑	Reflex EZ	56139	
372.00			299.7	299.7	-54.1	-54.1	☑	Reflex EZ	55837	
375.00			299.4	299.4	-54	-54	☑	Reflex EZ	55562	
378.00			299.8	299.8	-53.9	-53.9	☑	Reflex EZ	55846	
381.00			300.2	300.2	-53.9	-53.9	☑	Reflex EZ	55912	
384.00			299.5	299.5	-54	-54	☑	Reflex EZ	55685	
387.00			300	300	-53.9	-53.9	☑	Reflex EZ	56056	
390.00			299	299	-53.9	-53.9	☑	Reflex EZ	56548	
393.00			299	299	-53.9	-53.9	☑	Reflex EZ	56548	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	60.00	**OB Overburden**							
60.00	62.00	**SED Sediment** Limestone. Broken and blocky.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
62.00	- 100.16	**SYENOP Syenite with Graphitic Overprinting** Orange and purple due to orthoclase and graphite. Massive and very hard. 78.16 to 78.59 Chlorite malachite alteration, UC 50 dca, LC 37 dca. 88.72 to 89.38 Fault zone gouge at 37 dca. Lower contact at 64 dca.	Q156982	62.00	63.00	1.00	0.09	0.04	
			Q156983	63.00	64.00	1.00	0.3	0.01	
			Q156985	64.00	65.00	1.00	0.93	0.02	
			Q156986	65.00	66.00	1.00	0.01	0.29	
			Q156987	66.00	67.00	1.00	0.03	0.2	
			Q156988	67.00	68.00	1.00	0.03	0.16	
			Q156989	68.00	69.00	1.00	0.4	0.04	
			Q156990	69.00	70.00	1.00	0.82	0.07	
			Q156991	69.00	70.00	1.00	0.8	0.07	
			Q156992	70.00	71.00	1.00	1.81	0.14	
			Q156993	71.00	72.00	1.00	2.47	0.09	
			Q156994	72.00	73.00	1.00	0.18	0.19	
			Q156996	73.00	74.00	1.00	0.85	0.16	
			Q156997	74.00	75.00	1.00	0.41	0.23	
			Q156998	75.00	76.00	1.00	1.65	0.18	
			Q156999	76.00	77.00	1.00	1.24	0.15	
			Q157000	77.00	78.16	1.16	0.61	0.11	
			Q157001	78.16	78.59	0.43	2.4	0.03	
			Q157002	78.59	79.00	0.41	0.8	0.07	
			Q157003	79.00	80.00	1.00	0.35	0.18	
			Q157005	80.00	81.00	1.00	0.79	0.2	
			Q157006	81.00	82.00	1.00	0.91	0.18	
			Q157007	82.00	83.00	1.00	1.51	0.15	
			Q157008	83.00	84.00	1.00	0.54	0.21	
			Q157009	84.00	85.00	1.00	0.67	0.23	
			Q157010	85.00	86.00	1.00	0.37	0.28	
			Q157011	85.00	86.00	1.00	0.35	0.29	
			Q157012	86.00	87.00	1.00	1.26	0.18	
			Q157013	87.00	88.00	1.00	0.61	0.26	
			Q157014	88.00	88.72	0.72	1.12	0.17	
			Q157016	88.72	89.35	0.63	1.39	0.06	
			Q157017	89.35	90.00	0.65	1.61	0.05	
			Q157018	90.00	91.00	1.00	0.94	0.23	2.6
			Q157019	91.00	92.00	1.00	1.89	0.11	2.58
			Q157020	92.00	93.00	1.00	0.46	0.22	2.62
			Q157021	93.00	94.00	1.00	0.24	0.17	2.61

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q157022	94.00	95.00	1.00	0.55	0.14	2.62
			Q157023	95.00	96.00	1.00	0.8	0.17	
			Q157025	96.00	97.00	1.00	0.89	0.18	
			Q157026	97.00	98.00	1.00	0.39	0.21	
			Q157027	98.00	99.00	1.00	0.32	0.21	
			Q157028	99.00	100.16	1.16	1.46	0.25	
100.16	103.66	**GRPBX Graphitic Breccia** Dark grey to black. Fine to medium grained rock with 1mm angular fragments. Unit appears to be an ash tuff. Very strongly mineralized. Breccia fragments are very small. Lower contact irregular at 21 dca.	Q157029	100.16	101.00	0.84	11.85	0.13	
			Q157031	101.00	102.00	1.00	9.45	0.14	
			Q157030	101.00	102.00	1.00	9.22	0.15	
			Q157032	102.00	103.00	1.00	12.2	0.1	
			Q157033	103.00	103.66	0.66	9.7	0.31	
103.66	106.00	**IDP Intermediate Dike (Porphyritic)** Light green with very light green and dark green angular "phenocrysts" ? Massive and hard. Lower contact at 38 dca.	Q157034	103.66	105.00	1.34	0.02	0.18	
			Q157036	105.00	106.00	1.00	0.06	0.29	
106.00	108.61	**GRPBX Graphitic Breccia** Dark grey to black. Similar to above breccia but with more fragments (20%?) Perhaps coarsening down hole. Lower contact gradational.	Q157037	106.00	107.00	1.00	8.83	0.15	
			Q157038	107.00	108.00	1.00	6.47	0.17	
			Q157039	108.00	108.61	0.61	6.55	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
108.61 -	122.67	**GRPBX Graphitic Breccia** Grey to dark grey to black. A more typical breccia unit. Angular to subrounded syenite fragments from 1cm to 20cm in size. Syenite is well overprinted. 115.37 to 115.94 Granite dyke at 80 dca. Lower contact faulted at 56 dca.	Q157040	108.61	110.00	1.39	1.83	0.39	
			Q157041	110.00	111.00	1.00	0.63	0.28	
			Q157042	111.00	111.63	0.63	5.27	0.51	
			Q157043	111.63	112.00	0.37	5.66	0.86	
			Q157045	112.00	113.00	1.00	1.84	0.31	
			Q157046	113.00	114.00	1.00	0.19	0.27	
			Q157047	114.00	115.00	1.00	3.79	0.18	
			Q157048	115.00	115.37	0.37	1.31	0.21	
			Q157049	115.37	115.94	0.57	1.02	0.27	
			Q157051	115.94	117.00	1.06	3.51	0.23	
			Q157050	115.94	117.00	1.06	3.65	0.23	
			Q157052	117.00	118.00	1.00	3.26	0.23	
			Q157053	118.00	119.00	1.00	2.98	0.16	
			Q157054	119.00	120.00	1.00	2.92	0.22	
			Q157056	120.00	121.00	1.00	3.46	0.25	
			Q157057	121.00	122.00	1.00	1	0.18	
			Q157058	122.00	122.67	0.67	2.2	0.28	
122.67 -	126.63	**IDP Intermediate Dike (Porphyritic)** Grey/grey with angular fragments. Unit is strongly fractured and faulted. Broken blocky core. 122.67 to 127.10 Fault zone at 45 dca. Lower contact faulted at 45 dca.	Q157059	122.67	124.00	1.33	0.21	0.11	
			Q157060	124.00	125.00	1.00	0.01	0.22	
			Q157061	125.00	126.00	1.00	0.03	0.18	
			Q157062	126.00	126.63	0.63	0.08	0.11	
126.63 -	128.58	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and very hard. Lower contact sharp at 73 dca.	Q157063	126.63	128.00	1.37	1.13	0.17	
			Q157065	128.00	128.58	0.58	0.52	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
128.58 -	143.30	**GRPBX Graphitic Breccia** Dark grey to black. 128.58 to 129.00 Black fine to medium grained ash tuff. Lower contact at 85 dca.	Q157066	128.58	129.00	0.42	14.65	0.25	
			Q157067	129.00	130.00	1.00	3.5	0.31	
			Q157068	130.00	131.00	1.00	0.47	0.34	
			Q157069	131.00	132.00	1.00	3.75	0.21	
			Q157070	132.00	133.00	1.00	2.62	0.21	
			Q157071	132.00	133.00	1.00	2.53	0.17	
			Q157072	133.00	134.00	1.00	3.28	0.28	
			Q157073	134.00	135.00	1.00	4.56	0.27	
			Q157074	135.00	136.00	1.00	4.26	0.45	
			Q157076	136.00	137.00	1.00	5.48	0.21	2.6
			Q157077	137.00	138.00	1.00	4.47	0.21	2.62
			Q157078	138.00	139.00	1.00	0.24	0.16	2.71
			Q157079	139.00	140.00	1.00	2.13	0.14	2.71
			Q157080	140.00	141.00	1.00	4.43	0.35	2.64
			Q157081	141.00	142.00	1.00	7.05	0.47	
			Q157082	142.00	143.30	1.30	4.42	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
143.30	163.64	**GRPBX Graphitic Breccia** Very dark grey to black. <1mm angular fragments or clasts. Fine grained ash tuff that is very strongly mineralized. Fining and coarsening is evident with ash beds apparently at 61 dca. Lower contact gradational.	Q157083	143.30	144.00	0.70	11.55	0.42	
			Q157085	144.00	145.00	1.00	10	0.41	2.61
			Q157086	145.00	146.00	1.00	8.87	0.34	2.61
			Q157087	146.00	147.00	1.00	7.98	0.32	2.59
			Q157088	147.00	148.00	1.00	7.02	0.29	2.6
			Q157089	148.00	149.00	1.00	8.14	0.25	2.6
			Q157090	149.00	150.00	1.00	8.47	0.16	
			Q157091	149.00	150.00	1.00	8.51	0.17	
			Q157092	150.00	151.00	1.00	8.33	0.12	
			Q157093	151.00	152.00	1.00	8.7	0.21	
			Q157094	152.00	153.00	1.00	7.98	0.15	
			Q157096	153.00	154.00	1.00	7.45	0.19	
			Q157097	154.00	155.00	1.00	8.04	0.21	
			Q157098	155.00	156.00	1.00	8.18	0.19	
			Q157099	156.00	157.00	1.00	8.38	0.19	
			Q157100	157.00	158.00	1.00	7.49	0.18	
			Q157101	158.00	159.00	1.00	7.94	0.17	
			Q157102	159.00	160.00	1.00	8.11	0.18	
			Q157103	160.00	161.00	1.00	7.73	0.19	
			Q157105	161.00	162.00	1.00	7.42	0.21	
			Q157106	162.00	163.00	1.00	7.1	0.24	
			Q157107	163.00	163.64	0.64	6.31	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
163.64	178.13	**GRPBX Graphitic Breccia** Dark grey to black. Unit grades from 1mm breccia fragments or clasts to 1-10cm syenite fragments that are subrounded to angular. Lower contact sharp at 45 dca.	Q157108	163.64	164.00	0.36	5.94	0.26	
			Q157109	164.00	165.00	1.00	3.98	0.33	
			Q157110	165.00	166.00	1.00	2.44	0.32	
			Q157111	165.00	166.00	1.00	2.4	0.32	
			Q157112	166.00	167.00	1.00	2.29	0.31	
			Q157113	167.00	168.00	1.00	2.21	0.32	
			Q157114	168.00	169.00	1.00	2.86	0.35	
			Q157116	169.00	170.00	1.00	3.14	0.32	
			Q157117	170.00	171.00	1.00	2.81	0.38	
			Q157118	171.00	172.00	1.00	2.72	0.65	
			Q157119	172.00	173.00	1.00	2.37	0.32	
			Q157120	173.00	174.00	1.00	2.65	0.36	
			Q157121	174.00	175.00	1.00	1.69	0.3	
			Q157122	175.00	176.00	1.00	3.03	0.39	
			Q157123	176.00	177.00	1.00	1.99	0.28	
			Q157125	177.00	178.13	1.13	2.58	0.23	
178.13	182.80	**SYENOP Syenite with Graphitic Overprinting** 40% GRPBX. Grey to dark grey with orange tinge and black graphite background. Very hard. Lower contact at 55 dca.	Q157126	178.13	179.00	0.87	0.18	0.17	
			Q157127	179.00	180.00	1.00	0.67	0.25	
			Q157128	180.00	181.00	1.00	1.86	0.17	
			Q157129	181.00	182.00	1.00	0.77	0.26	
			Q157131	182.00	182.80	0.80	1.68	0.24	
			Q157130	182.00	182.80	0.80	1.64	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.80	207.00	**GRPBX Graphitic Breccia** Dark grey matrix which may contain less graphite than typical. 199.06 to 199.23 Porphyritic Intermediate Dyke at 44 dca. Lower contact at 155 dca.	Q157132	182.80	184.00	1.20	1.02	0.33	
			Q157133	184.00	185.00	1.00	1.86	0.47	
			Q157134	185.00	186.00	1.00	1.38	0.25	
			Q157136	186.00	187.00	1.00	1.05	0.24	
			Q157137	187.00	188.00	1.00	2.1	0.22	
			Q157138	188.00	189.00	1.00	1.51	0.33	
			Q157139	189.00	190.00	1.00	1.87	0.31	
			Q157140	190.00	191.00	1.00	2.34	0.36	
			Q157141	191.00	192.00	1.00	1.93	0.32	
			Q157142	192.00	193.00	1.00	2.34	0.34	
			Q157143	193.00	194.00	1.00	2.83	0.29	
			Q157145	194.00	195.00	1.00	2.45	0.32	
			Q157146	195.00	196.00	1.00	2.08	0.28	
			Q157147	196.00	197.00	1.00	2.25	0.29	
			Q157148	197.00	198.00	1.00	2.27	0.3	
			Q157149	198.00	199.00	1.00	2.83	0.25	
			Q157150	199.00	200.00	1.00	1.96	0.46	
			Q157151	199.00	200.00	1.00	1.93	0.5	
			Q157152	200.00	201.00	1.00	1.82	0.35	
			Q157153	201.00	202.00	1.00	1.98	0.23	
			Q157154	202.00	203.00	1.00	2.16	0.32	
			Q157156	203.00	204.00	1.00	2.16	0.39	
			Q157157	204.00	205.00	1.00	2.22	0.33	
			Q157158	205.00	206.00	1.00	2.33	0.33	
			Q157159	206.00	207.00	1.00	1.42	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
207.00	220.00	**SYENOP Syenite with Graphitic Overprinting** Grey to dark grey with 50% felsic breccia. Graphite is likely present but at low grade. 210.59 to 210.87 Chlorite biotite alteration at 80 dca. Unit is also softer with a talcy feel weak chlorite alteration.	Q157160	207.00	208.00	1.00	0.68	0.23	
			Q157161	208.00	209.00	1.00	0.51	0.18	
			Q157162	209.00	210.00	1.00	0.67	0.17	
			Q157163	210.00	211.00	1.00	0.47	0.19	
			Q157165	211.00	212.00	1.00	0.34	0.07	
			Q157166	212.00	213.00	1.00	0.22	0.23	
			Q157167	213.00	213.68	0.68	0.2	0.2	
			Q157168	213.68	215.00	1.32	0.13	0.08	
			Q157169	215.00	216.00	1.00	0.36	0.18	
			Q157171	216.00	217.00	1.00	0.23	0.17	
			Q157170	216.00	217.00	1.00	0.28	0.18	
			Q157172	217.00	218.00	1.00	0.36	0.19	
			Q157173	218.00	219.00	1.00	1.32	0.34	
			Q157174	219.00	220.00	1.00	0.63	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
220.00	246.70	**IDP Intermediate Dike (Porphyritic)** Dark green with red (orthoclase?) tinge when wet. Salt and pepper texture. Medium grained. Massive and very hard. 1-3mm clasts of feldspar. 221.33 to 221.75 Mafic dyke at 80 dca. Lower contact at 75 dca.	Q157176	220.00	221.00	1.00	0.05	0.18	
			Q157177	221.00	222.00	1.00	0.01	0.06	
			Q157178	222.00	223.00	1.00	0.03	0.07	
			Q157179	223.00	224.00	1.00	0.11	0.09	
			Q157180	224.00	225.00	1.00	0.05	0.08	
			Q157181	225.00	226.50	1.50	0.02	0.06	
			Q157182	226.50	228.00	1.50	0.02	0.05	
			Q157183	228.00	229.50	1.50	0.06	0.05	
			Q157185	229.50	231.00	1.50	0.03	0.05	
			Q157186	231.00	232.50	1.50	0.03	0.05	
			Q157187	232.50	234.00	1.50	0.01	0.06	
			Q157188	234.00	235.50	1.50	0.04	0.06	
			Q157189	235.50	237.00	1.50	0.02	0.06	
			Q157190	237.00	238.50	1.50	0.01	0.1	
			Q157191	237.00	238.50	1.50	0.03	0.11	
			Q157192	238.50	240.00	1.50	0.02	0.07	
			Q157193	240.00	241.50	1.50	0.01	0.05	
			Q157194	241.50	243.00	1.50	0.03	0.07	
			Q157196	243.00	244.50	1.50	0.03	0.05	
			Q157197	244.50	246.00	1.50	0.04	0.05	
			Q157198	246.00	246.70	0.70	0.01	0.03	
246.70	252.30	**SYENSL Syenite Sill (unmineralized)** Green to dark green. Fine to medium grained. Massive with swirls of coarser grained material. Typical sill unit for the 2 pipes. Lower contact at 55 dca.	Q157199	246.70	248.00	1.30	0.01	0.04	
			Q157200	248.00	249.00	1.00	0.01	0.02	
			Q157201	249.00	250.00	1.00	0.02	0.02	
			Q157202	250.00	251.00	1.00	0.01	0.02	
			Q157203	251.00	252.30	1.30	0.01	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
252.30	258.36	**FP Feldspar Porphyry** Dark grey to black. Fine grained with 1-3mm plagioclase phenocrysts. Lower contact at 47 dca.	Q157205	252.30	253.00	0.70	1.47	0.32	
			Q157206	253.00	254.00	1.00	1.73	0.28	
			Q157207	254.00	255.00	1.00	1.88	0.32	
			Q157208	255.00	256.00	1.00	1.93	0.33	
			Q157209	256.00	257.00	1.00	1.94	0.31	
			Q157210	257.00	258.36	1.36	2.51	0.38	
258.36	275.92	**GRPBX Graphitic Breccia** Light grey to dark grey. Typical breccia unit. 266.38 to 266.43 Dyke at 65 dca. 268.26 to 268.44 dyke at 65 dca. Lower contact at 58 dca.	Q157212	258.36	259.00	0.64	0.28	0.13	
			Q157213	259.00	260.00	1.00	0.26	0.17	
			Q157214	260.00	261.00	1.00	1.45	0.31	
			Q157216	261.00	262.00	1.00	1.93	0.31	
			Q157217	262.00	263.00	1.00	2.63	0.13	
			Q157218	263.00	264.00	1.00	2.68	0.22	
			Q157219	264.00	265.00	1.00	0.81	0.39	
			Q157220	265.00	266.00	1.00	2.17	0.58	
			Q157221	266.00	267.00	1.00	2.6	0.13	
			Q157222	267.00	268.00	1.00	1.74	0.16	
			Q157223	268.00	269.00	1.00	1.17	0.13	
			Q157225	269.00	270.00	1.00	3.81	0.22	
			Q157226	270.00	271.00	1.00	3.17	0.38	
			Q157227	271.00	272.00	1.00	3.41	0.22	
			Q157228	272.00	273.00	1.00	1.48	0.11	
			Q157229	273.00	274.00	1.00	3.93	0.21	
			Q157230	274.00	275.00	1.00	3.24	0.31	
			Q157231	274.00	275.00	1.00	3.23	0.32	
			Q157232	275.00	275.92	0.92	1.71	0.63	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
275.92	277.93	**SYENSL Syenite Sill (unmineralized)** Green to dark green. Fine to medium grained. Massive with swirls of coarser grained material. Typical sill unit for the 2 pipes. Lower contact at 95 dca.	Q157233	275.92	277.00	1.08	0.01	0.04	
			Q157234	277.00	277.93	0.93	0.02	0.03	
277.93	285.56	**GRPBX Graphitic Breccia** Light grey to dark grey. Typical breccia unit. 279.39 to 279.93 Mafic Dyke, UC at 141 dca, LC at 60 dca. Lower contact at 57 dca.	Q157236	277.93	279.00	1.07	1.72	0.25	
			Q157237	279.00	279.39	0.39	3.17	0.17	
			Q157238	279.39	279.93	0.54	0.19	0.25	
			Q157239	279.93	281.00	1.07	0.5	0.18	
			Q157240	281.00	282.00	1.00	1.76	0.15	
			Q157241	282.00	283.00	1.00	1.69	0.19	
			Q157242	283.00	284.00	1.00	1.42	0.11	
			Q157243	284.00	285.00	1.00	1.91	0.22	
			Q157245	285.00	285.56	0.56	2.95	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
285.56	309.67	**SYENSL Syenite Sill (unmineralized)** Green to dark green. Fine to medium grained. Massive with swirls of coarser grained material. Typical gabbro unit for the 2 pipes. 286.25 to 286.53 Porphyritic Intermediate Dyke at 57 dca. 286.65 to 287.00 Porphyritic Intermediate Dyke at 73 dca. Lower contact at 150 dca.	Q157246	285.56	286.25	0.69	0.04	0.02	
			Q157247	286.25	287.00	0.75	0.01	0.03	
			Q157248	287.00	288.00	1.00	0.03	0.04	
			Q157249	288.00	289.50	1.50	0.02	0.01	
			Q157250	289.50	291.00	1.50	0.02	0.04	
			Q157251	289.50	291.00	1.50	0.02	0.02	
			Q157252	291.00	292.50	1.50	0.02	0.02	
			Q157253	292.50	294.00	1.50	0.01	0.02	
			Q157254	294.00	295.50	1.50	0.03	0.09	
			Q157256	295.50	297.00	1.50	0.03	0.03	
			Q157257	297.00	298.50	1.50	0.02	0.03	
			Q157258	298.50	300.00	1.50	0.02	0.06	
			Q157259	300.00	301.50	1.50	0.02	0.04	
			Q157260	301.50	303.00	1.50	0.01	0.02	
			Q157261	303.00	304.50	1.50	0.03	0.04	
			Q157262	304.50	306.00	1.50	0.02	0.03	
			Q157263	306.00	307.50	1.50	0.03	0.03	
			Q157265	307.50	309.00	1.50	0.03	0.08	
			Q157266	309.00	309.67	0.67	0.02	0.81	
309.67	311.24	**GRPBX Graphitic Breccia** Light grey to dark grey. Lots of fracture filling. Lower contact gradational at 73 dca.	Q157267	309.67	310.00	0.33	2.15	0.32	
			Q157268	310.00	311.24	1.24	2.99	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
311.24	321.38	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge. Massive and hard. 315.06 to 315.40 Unmineralized syenite at 76 dca. 316.28 to 316.46 Unmineralized syenite at 65 dca. Lower contact at 101 dca.	Q157269	311.24	312.00	0.76	0.37	0.17	
			Q157271	312.00	313.00	1.00	0.39	0.17	
			Q157270	312.00	313.00	1.00	0.35	0.17	
			Q157272	313.00	314.00	1.00	0.67	0.27	
			Q157273	314.00	315.00	1.00	0.26	0.12	
			Q157274	315.00	316.00	1.00	0.15	0.16	
			Q157276	316.00	317.00	1.00	0.46	0.19	
			Q157277	317.00	318.00	1.00	0.48	0.3	
			Q157278	318.00	319.00	1.00	0.92	0.16	
			Q157279	319.00	320.00	1.00	0.39	0.17	
			Q157280	320.00	321.38	1.38	1.43	0.26	
321.38	344.53	**SYENSL Syenite Sill (unmineralized)** Green to dark green. Fine to medium grained. Massive with swirls of coarser grained material. Typical sill unit for the 2 pipes. Lower contact at 55 dca.	Q157281	321.38	322.50	1.12	0.04	0.08	
			Q157282	322.50	324.00	1.50	0.02	0.03	
			Q157283	324.00	325.50	1.50	0.01	0.04	
			Q157285	325.50	327.00	1.50	0.01	0.02	
			Q157286	327.00	328.50	1.50	0.01	0.03	
			Q157287	328.50	330.00	1.50	0.01	0.02	
			Q157288	330.00	331.50	1.50	0.01	0.03	
			Q157289	331.50	333.00	1.50	0.01	0.02	
			Q157291	333.00	334.50	1.50	0.02	0.04	
			Q157290	333.00	334.50	1.50	0.01	0.03	
			Q157292	334.50	336.00	1.50	0.04	0.03	
			Q157293	336.00	337.50	1.50	0.01	0.02	
			Q157294	337.50	339.00	1.50	0.02	0.03	
			Q157296	339.00	340.50	1.50	0.08	0.04	
			Q157297	340.50	342.00	1.50	0.08	0.06	
			Q157298	342.00	343.50	1.50	0.01	0.12	
			Q157299	343.50	344.53	1.03	0.03	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
344.53	346.34	**IDP Intermediate Dike (Porphyritic)** Dark grey to black. Medium to coarse grained with round to subangular phenocrysts of plagioclase. Unit is well fractured. Lower contact at 65 dca.	Q157300	344.53	345.50	0.97	0.15	0.15	
			Q157301	345.50	346.34	0.84	0.06	0.15	
346.34	347.87	**SYEN Syenite** Orange with light grey. Massive and hard. Unit is strongly fractured. Lower contact at 53 dca.	Q157302	346.34	347.00	0.66	0.06	0.06	
			Q157303	347.00	347.87	0.87	0.09	0.27	
347.87	350.35	**IDP Intermediate Dike (Porphyritic)** As previous. Unit is very strongly fractured. Lower contact at 27 dca.	Q157305	347.87	349.00	1.13	0.15	0.46	
			Q157306	349.00	350.35	1.35	0.05	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
350.35	390.00	**SYENSL Syenite Sill (unmineralized)** Green to dark green. Fine to medium grained. Massive with swirls of coarser grained material. Typical sill unit for the 2 pipes. 387 to 390 Unit becomes a little bit orange with orthoclase? But keeps the massive and coarse grained texture of the rest of this large intermediate intrusive unit. EOH 390.0m	Q157307	350.35	351.00	0.65	0.05	0.03	
			Q157308	351.00	352.50	1.50	0.04	0.03	
			Q157309	352.50	354.00	1.50	0.02	0.02	
			Q157310	354.00	355.50	1.50	0.02	0.04	
			Q157311	354.00	355.50	1.50	0.02	0.04	
			Q157312	355.50	357.00	1.50	0.05	0.07	
			Q157313	357.00	358.50	1.50	0.03	0.02	
			Q157314	358.50	360.00	1.50	0.02	0.01	
			Q157316	360.00	361.50	1.50	0.05	0.02	
			Q157317	361.50	363.00	1.50	0.04	0.02	
			Q157318	363.00	364.50	1.50	0.05	0.04	
			Q157319	364.50	366.00	1.50	0.03	0.02	
			Q157320	366.00	367.50	1.50	0.05	0.02	
			Q157321	367.50	369.00	1.50	0.1	0.04	
			Q157322	369.00	370.50	1.50	0.06	0.02	
			Q157323	370.50	372.00	1.50	0.06	0.03	
			Q157325	372.00	373.50	1.50	0.03	0.04	
			Q157326	373.50	375.00	1.50	0.04	0.04	
			Q157327	375.00	376.50	1.50	0.03	0.04	
			Q157328	376.50	378.00	1.50	0.04	0.05	
			Q157329	378.00	379.50	1.50	0.03	0.08	
			Q157330	379.50	381.00	1.50	0.02	0.08	
			Q157332	381.00	382.50	1.50	0.03	0.04	
			Q157333	382.50	384.00	1.50	0.04	0.09	
			Q157334	384.00	385.50	1.50	0.02	0.09	
			Q157336	385.50	387.00	1.50	0.03	0.11	
			Q157337	387.00	387.50	0.50	0.02	0.05	
			Q157338	387.50	388.00	0.50	0.02	0.06	
			Q157339	388.00	389.00	1.00	0.01	0.04	
			Q157340	389.00	390.00	1.00	0.05	0.05	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	381.66	27/09/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545595.2	682558.1			Reflex APS		29/09/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	123.60	301.60		-49.00	Chibougamau Diamond Drilling		30/09/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Clayton Kennedy		Clayton Kennedy		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☑	☑	☑

Core Size (1)	NQ	318.66	Casing Pulled	Casing (1)	63.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
To test the boundary of the West Pipe.	Syenite/overprinted syenite from 64.00m to 84.70m (just below seds) helps define pipe boundary. 84.70m to 239.00m mostly mineralized breccia with intermittent porphyritic intermediate dyke and syenite. Assays from 72.00m to 257.00m averaged 3.14% Cg over 185.00m; within this intersection a higher grade graphite zone from 89.00m to 183.00m averaged 4.92% Cg over 94.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°) Original	Grid Azimuth (°) Final	Astro. Azimuth (°) Original	Astro. Azimuth (°) Final	Dip (°) Original	Dip (°) Final	Use Test	Survey Method	Mag. Field (nT)	Comments
75.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56456	
78.00			310.4	301.4	-50.2	-50.2	☑	Reflex EZ	56385	
81.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56322	
84.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56312	
87.00			310.7	301.7	-50.3	-50.3	☑	Reflex EZ	56278	
90.00			311	302	-50.2	-50.2	☑	Reflex EZ	56148	
93.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56093	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
96.00			310.6	301.6	-50.3	-50.3	☑	Reflex EZ	56259	
99.00			310.4	301.4	-50.2	-50.2	☑	Reflex EZ	56254	
102.00			310.4	301.4	-50.2	-50.2	☑	Reflex EZ	56245	
105.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56232	
108.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56219	
111.00			310.7	301.7	-50.2	-50.2	☑	Reflex EZ	56202	
114.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56209	
117.00			310.4	301.4	-50.1	-50.1	☑	Reflex EZ	56289	
120.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56235	
123.00			310.7	301.7	-50.1	-50.1	☑	Reflex EZ	56212	
126.00			310.5	301.5	-50.1	-50.1	☑	Reflex EZ	56270	
129.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56218	
132.00			310.5	301.5	-50.2	-50.2	☑	Reflex EZ	56228	
135.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56205	
138.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56233	
141.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56212	
144.00			310.8	301.8	-50.1	-50.1	☑	Reflex EZ	56224	
147.00			310.9	301.9	-50.1	-50.1	☑	Reflex EZ	56234	
150.00			310.6	301.6	-50.1	-50.1	☑	Reflex EZ	56275	
153.00			310.6	301.6	-50.1	-50.1	☑	Reflex EZ	56260	
156.00			310.6	301.6	-50.2	-50.2	☑	Reflex EZ	56227	
159.00			310.8	301.8	-50.2	-50.2	☑	Reflex EZ	56235	
162.00			310.6	301.6	-50.1	-50.1	☑	Reflex EZ	56266	
165.00			310.7	301.7	-50	-50	☑	Reflex EZ	56265	
168.00			311.1	302.1	-50.1	-50.1	☑	Reflex EZ	56155	
171.00			310.8	301.8	-50.1	-50.1	☑	Reflex EZ	56264	
174.00			311.1	302.1	-50	-50	☑	Reflex EZ	56218	
177.00			310.9	301.9	-50.2	-50.2	☑	Reflex EZ	56225	
180.00			310.9	301.9	-50.1	-50.1	☑	Reflex EZ	56229	
183.00			310.9	301.9	-50.1	-50.1	☑	Reflex EZ	56232	
186.00			310.8	301.8	-50.1	-50.1	☑	Reflex EZ	56256	
189.00			310.9	301.9	-50.1	-50.1	☑	Reflex EZ	56244	
192.00			311	302	-50	-50	☑	Reflex EZ	56244	
195.00			311	302	-50	-50	☑	Reflex EZ	56247	
198.00			310.9	301.9	-50	-50	☑	Reflex EZ	56223	
201.00			310.8	301.8	-50	-50	☑	Reflex EZ	56236	
207.00			310.7	301.7	-50	-50	☑	Reflex EZ	56308	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
213.00			311.3	302.3	-50	-50	☑	Reflex EZ	56369	
216.00			310.9	301.9	-49.9	-49.9	☑	Reflex EZ	56261	
219.00			310.8	301.8	-50	-50	☑	Reflex EZ	56236	
222.00			311.1	302.1	-50	-50	☑	Reflex EZ	56232	
225.00			310.6	301.6	-50	-50	☑	Reflex EZ	56307	
228.00			310.8	301.8	-49.9	-49.9	☑	Reflex EZ	56227	
231.00			310.6	301.6	-49.9	-49.9	☑	Reflex EZ	56353	
234.00			311.1	302.1	-49.9	-49.9	☑	Reflex EZ	56084	
237.00			311	302	-49.9	-49.9	☑	Reflex EZ	56227	
240.00			311.2	302.2	-50	-50	☑	Reflex EZ	56276	
243.00			311.2	302.2	-49.9	-49.9	☑	Reflex EZ	56270	
246.00			310.8	301.8	-49.8	-49.8	☑	Reflex EZ	56281	
249.00			310.5	301.5	-50	-50	☑	Reflex EZ	56286	
252.00			310.8	301.8	-49.8	-49.8	☑	Reflex EZ	56239	
255.00			311.2	302.2	-49.8	-49.8	☑	Reflex EZ	56249	
258.00			310.7	301.7	-49.8	-49.8	☑	Reflex EZ	56281	
261.00			310.9	301.9	-49.8	-49.8	☑	Reflex EZ	56287	
264.00			311	302	-49.8	-49.8	☑	Reflex EZ	56383	
267.00			310.9	301.9	-49.8	-49.8	☑	Reflex EZ	56281	
270.00			310.8	301.8	-49.7	-49.7	☑	Reflex EZ	56312	
273.00			310.7	301.7	-49.8	-49.8	☑	Reflex EZ	56344	
276.00			311	302	-49.9	-49.9	☑	Reflex EZ	56393	
279.00			310.8	301.8	-49.8	-49.8	☑	Reflex EZ	56293	
282.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	55959	
285.00			310	301	-49.9	-49.9	☑	Reflex EZ	55814	
288.00			310.4	301.4	-49.8	-49.8	☑	Reflex EZ	56112	
291.00			310.4	301.4	-49.8	-49.8	☑	Reflex EZ	56171	
297.00			311.6	302.6	-49.9	-49.9	☑	Reflex EZ	55949	
300.00			310.5	301.5	-49.8	-49.8	☑	Reflex EZ	56221	
303.00			310.3	301.3	-49.8	-49.8	☑	Reflex EZ	55882	
306.00			311.2	302.2	-49.8	-49.8	☑	Reflex EZ	55964	
309.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	56191	
312.00			311.1	302.1	-49.9	-49.9	☑	Reflex EZ	56328	
315.00			311.2	302.2	-49.8	-49.8	☑	Reflex EZ	56196	
318.00			311.3	302.3	-49.8	-49.8	☑	Reflex EZ	56154	
321.00			311.1	302.1	-49.7	-49.7	☑	Reflex EZ	56198	
324.00			311.5	302.5	-49.8	-49.8	☑	Reflex EZ	56199	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
327.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	56263	
330.00			311.4	302.4	-49.9	-49.9	☑	Reflex EZ	56170	
333.00			311.2	302.2	-49.9	-49.9	☑	Reflex EZ	56250	
336.00			311.2	302.2	-49.9	-49.9	☑	Reflex EZ	56182	
339.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	56208	
342.00			311.2	302.2	-49.8	-49.8	☑	Reflex EZ	56036	
345.00			311.3	302.3	-49.9	-49.9	☑	Reflex EZ	56135	
348.00			311.5	302.5	-49.9	-49.9	☑	Reflex EZ	56143	
351.00			311.2	302.2	-49.9	-49.9	☑	Reflex EZ	56178	
354.00			310.9	301.9	-49.9	-49.9	☑	Reflex EZ	56142	
357.00			310.9	301.9	-49.9	-49.9	☑	Reflex EZ	56188	
360.00			310.7	301.7	-49.9	-49.9	☑	Reflex EZ	56148	
363.00			311.3	302.3	-49.9	-49.9	☑	Reflex EZ	56114	
366.00			311.4	302.4	-49.9	-49.9	☑	Reflex EZ	56162	
369.00			310.7	301.7	-49.9	-49.9	☑	Reflex EZ	56042	
372.00			311.1	302.1	-49.9	-49.9	☑	Reflex EZ	55654	
375.00			311.4	302.4	-49.9	-49.9	☑	Reflex EZ	56141	
378.00			311.1	302.1	-49.9	-49.9	☑	Reflex EZ	56027	
381.00			311.1	302.1	-49.8	-49.8	☑	Reflex EZ	56160	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	62.00	**OB Overburden**							
62.00	64.00	**SED Sediment** White to pale brown limestone. Lower contact unconformity, no measurement.							
64.00	77.54	**SYEN Syenite** Pink to grey fine to medium grained, strongly weathered. No conductivity, possibly local fracture filling. Lower contact at 150dca.	Q157341	64.00	65.00	1.00	0.04	0.03	
			Q157342	65.00	66.00	1.00	0.18	0.04	
			Q157343	66.00	67.00	1.00	0.11	0.02	
			Q157345	67.00	68.00	1.00	0.18	0.04	
			Q157346	68.00	69.00	1.00	0.18	0.03	
			Q157347	69.00	70.00	1.00	0.28	0.03	
			Q157348	70.00	71.00	1.00	0.07	0.02	
			Q157349	71.00	72.00	1.00	0.26	0.03	
			Q157351	72.00	73.00	1.00	0.47	0.05	
			Q157350	72.00	73.00	1.00	0.46	0.04	
			Q157352	73.00	74.00	1.00	0.28	0.04	
			Q157353	74.00	75.00	1.00	0.19	0.02	
			Q157354	75.00	76.00	1.00	0.27	0.02	
			Q157356	76.00	77.00	1.00	0.14	0.02	
			Q157357	77.00	77.54	0.54	0.06	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
77.54	84.70	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained, mild overprinting and fracture filling similar to above unit but definite fracture filling observed. 80.90-84.23 this area of the unit is possibly a monzonite but I have kept it the same unit to keep continuity with other logging. Lower contact sharp at 140dca.	Q157358	77.54	78.00	0.46	0.24	0.14	
			Q157359	78.00	79.00	1.00	0.46	0.27	
			Q157360	79.00	80.00	1.00	0.15	0.05	
			Q157361	80.00	80.90	0.90	0.11	0.29	
			Q157362	80.90	82.00	1.10	0.04	0.34	
			Q157363	82.00	83.00	1.00	0.02	0.27	
			Q157365	83.00	84.23	1.23	0.01	0.6	
			Q157366	84.23	84.70	0.47	0.13	0.12	
84.70	86.53	**GRPBX Graphitic Breccia** Grey and pink sub-angular to sub-rounded fragments ranging in size from 0.5-20cm with some larger >50cm fragments. Some fragments are weakly graphite overprinted. 86.37-86.42 Porphyritic Intermediate Dyke at 50dca. Lower contact irregular at 127dca.	Q157367	84.70	85.50	0.80	2.05	0.1	
			Q157368	85.50	86.53	1.03	2.32	0.08	
86.53	88.46	**IDP Intermediate Dike (Porphyritic)** Dark grey fine grained rock with white, pink and green phenocrysts, some of which have alteration halos. Lower contact irregular at 160dca.	Q157369	86.53	87.00	0.47	0.01	0.17	
			Q157371	87.00	88.00	1.00	0.01	0.19	
			Q157370	87.00	88.00	1.00	0.01	0.21	
			Q157372	88.00	88.46	0.46	0.13	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
88.46	- 157.93	**GRPBX Graphitic Breccia** Grey and pink sub-angular to sub-rounded fragments ranging in size from 0.5-40cm with some larger >50cm fragments. Fragments are mostly weakly to moderately graphite overprinted and some of the larger fragments have graphite fracture filling. 88.65-89.46 irregular porphyritic intermediate dyke. 96.58-96.83 strong chlorite alteration with fragments that are chlorite and potassic altered these fragments all have graphite rinds and some are completely replaced with graphite. 106.20-106.90 syenite area with a 5cm graphite rich vein? In the center. 108.83-109.67 syenite. 113.42-114.15 Porphyritic Intermediate Dyke, UC @ 24dca/LC @ 38dca. 121.85-122.84 grey fine grained felsic dyke at 85dca. 155.00-155.35 rubble, possible fault? 155.35-157.93 moderate to strong fracturing. Lower contact sharp at 117dca.	Q157373	88.46	89.00	0.54	1.23	0.22	
			Q157374	89.00	90.00	1.00	4.57	0.19	
			Q157376	90.00	91.00	1.00	7.49	0.05	
			Q157377	91.00	92.00	1.00	2.29	0.13	
			Q157378	92.00	93.00	1.00	6.26	0.14	
			Q157379	93.00	94.00	1.00	6.59	0.1	
			Q157380	94.00	95.00	1.00	5.48	0.07	
			Q157381	95.00	96.00	1.00	4.86	0.1	
			Q157382	96.00	96.58	0.58	7.21	0.06	
			Q157383	96.58	96.83	0.25	6.76	0.01	
			Q157385	96.83	98.00	1.17	5.34	0.08	
			Q157386	98.00	99.00	1.00	2.72	0.2	
			Q157387	99.00	100.00	1.00	5.5	0.16	
			Q157388	100.00	101.00	1.00	3.17	0.27	
			Q157389	101.00	102.00	1.00	5.63	0.21	
			Q157390	102.00	103.00	1.00	5.1	0.3	
			Q157391	102.00	103.00	1.00	5.2	0.3	
			Q157392	103.00	104.00	1.00	3.13	0.29	
			Q157393	104.00	105.00	1.00	3.61	0.27	
			Q157394	105.00	106.20	1.20	3.23	0.37	
			Q157396	106.20	106.80	0.60	0.28	0.1	
			Q157397	106.80	108.00	1.20	6.05	0.24	
			Q157398	108.00	108.83	0.83	6.45	0.32	
			Q157399	108.83	109.67	0.84	0.08	0.07	
			Q157400	109.67	111.00	1.33	5.67	0.31	
			Q157401	111.00	112.00	1.00	4.43	0.48	
			Q157402	112.00	113.00	1.00	4.78	0.31	
			Q157403	113.00	113.42	0.42	5.34	0.41	
			Q157405	113.42	114.15	0.73	0.19	0.44	
			Q157406	114.15	115.00	0.85	7.48	0.4	
			Q157407	115.00	116.00	1.00	6.52	0.25	
			Q157408	116.00	117.00	1.00	6.22	0.42	
			Q157409	117.00	118.00	1.00	5.84	0.39	
			Q157410	118.00	119.00	1.00	8.2	0.55	
			Q157411	118.00	119.00	1.00	7.89	0.55	
			Q157412	119.00	120.00	1.00	7.19	0.39	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q157413	120.00	121.00	1.00	7.36	0.34	
		Q157414	121.00	121.85	0.85	6.9	0.53	
		Q157416	121.85	122.84	0.99	0.02	0.02	
		Q157417	122.84	124.00	1.16	3.58	0.43	
		Q157418	124.00	125.00	1.00	3.59	0.43	
		Q157419	125.00	126.00	1.00	6.02	0.44	
		Q157420	126.00	127.00	1.00	5.24	0.4	
		Q157421	127.00	128.00	1.00	5.35	0.32	
		Q157422	128.00	129.00	1.00	6.17	0.54	
		Q157423	129.00	130.00	1.00	4.64	0.41	
		Q157425	130.00	131.00	1.00	7.13	0.38	
		Q157426	131.00	132.00	1.00	7.15	0.39	
		Q157427	132.00	133.00	1.00	6.16	0.33	
		Q157428	133.00	134.00	1.00	4.12	0.17	
		Q157429	134.00	135.00	1.00	6.68	0.2	
		Q157430	135.00	136.00	1.00	6.31	0.4	
		Q157431	135.00	136.00	1.00	6.45	0.4	
		Q157432	136.00	137.00	1.00	6.13	0.31	
		Q157433	137.00	138.00	1.00	2.13	0.41	
		Q157434	138.00	139.00	1.00	5.73	0.32	
		Q157436	139.00	140.00	1.00	5.52	0.33	
		Q157437	140.00	141.00	1.00	6.58	0.27	
		Q157438	141.00	142.00	1.00	6.27	0.36	
		Q157439	142.00	143.00	1.00	4.31	0.45	
		Q157440	143.00	144.00	1.00	6.98	0.49	
		Q157441	144.00	145.00	1.00	7.28	0.36	
		Q157442	145.00	146.00	1.00	6.96	0.31	
		Q157443	146.00	147.00	1.00	8.29	0.34	
		Q157445	147.00	148.00	1.00	7.21	0.27	
		Q157446	148.00	149.00	1.00	1.28	0.12	
		Q157447	149.00	150.00	1.00	7.62	0.51	
		Q157448	150.00	151.00	1.00	7.05	0.44	
		Q157449	151.00	152.00	1.00	5.54	0.36	
		Q157450	152.00	153.00	1.00	3.82	0.28	
		Q157451	152.00	153.00	1.00	3.37	0.27	
		Q157452	153.00	154.00	1.00	7.19	0.38	
		Q157453	154.00	155.00	1.00	5.31	0.4	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q157454	155.00	156.00	1.00	5.8	0.32	
			Q157456	156.00	157.00	1.00	5.82	0.38	
			Q157457	157.00	157.93	0.93	8.42	0.35	
157.93	164.87	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained, local breccia with graphite matrix. Breccia makes up 35% of unit. There is moderate to strong fracturing through out the unit.	Q157458	157.93	159.00	1.07	1.92	0.26	
			Q157459	159.00	160.00	1.00	2.96	0.46	
			Q157460	160.00	161.00	1.00	3.39	0.23	
			Q157461	161.00	162.00	1.00	3.4	0.45	
			Q157462	162.00	163.00	1.00	7.7	0.21	
			Q157463	163.00	164.00	1.00	1.59	0.06	
			Q157465	164.00	164.87	0.87	0.1	0.07	
164.87	169.66	**GRPBX Graphitic Breccia** Grey/pink sub-angular to sub-rounded fragments between 0.5-10cm in size. Most fragments are moderately to strongly overprinted with graphite. The breccia is made up of 30% syenite. 166.00-167.00 strongly fractured zone. Lower contact sharp at 146dca.	Q157466	164.87	166.00	1.13	4.22	0.32	
			Q157467	166.00	167.00	1.00	3.89	0.09	
			Q157468	167.00	167.85	0.85	8.71	0.19	
			Q157469	167.85	168.95	1.10	1.92	0.28	
			Q157471	168.95	169.66	0.71	8.48	0.42	
			Q157470	168.95	169.66	0.71	8.71	0.41	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
169.66	174.51	**SYENOP Syenite with Graphitic Overprinting** Grey with pink fine to medium grained, moderately graphite overprinted and moderate to strong fracture filling and localized graphite rich breccia. Lower contact at 121dca.	Q157472	169.66	171.00	1.34	1.57	0.27	
			Q157473	171.00	172.00	1.00	2.58	0.2	
			Q157474	172.00	173.00	1.00	1.8	0.13	
			Q157476	173.00	174.00	1.00	2.23	0.25	
			Q157477	174.00	174.51	0.51	2.79	0.45	
174.51	185.15	**GRPBX Graphitic Breccia** Grey/pink sub-angular to sub-rounded fragments most of which are between 0.5-30cm in size with a couple that are between 50-90cm. Most fragments are moderately to strongly overprinted with graphite. The large fragments have graphite fracture filling. 175.22-175.31 felsic dyke strong foliation, chlorite, biotite and hematite alteration. Lower contact sharp at 118dca.	Q157478	174.51	175.00	0.49	8.42	0.35	
			Q157479	175.00	176.00	1.00	3.78	0.38	
			Q157480	176.00	177.00	1.00	4.45	0.28	
			Q157481	177.00	177.52	0.52	9.71	0.42	
			Q157482	177.52	178.45	0.93	0.73	0.14	
			Q157483	178.45	179.00	0.55	5.23	0.43	
			Q157485	179.00	180.00	1.00	4.11	0.3	
			Q157486	180.00	181.00	1.00	2.4	0.53	
			Q157487	181.00	182.00	1.00	2.92	0.18	
			Q157488	182.00	183.00	1.00	4.9	0.2	
			Q157489	183.00	184.00	1.00	2.66	0.31	
			Q157490	184.00	185.15	1.15	3	0.26	
185.15	186.95	**SYENOP Syenite with Graphitic Overprinting** Grey with some pink medium grained mildly overprinted syenite with weak fracture filling. Lower contact at 82dca.	Q157492	185.15	186.00	0.85	0.06	0.11	
			Q157493	186.00	186.95	0.95	0.15	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
186.95	205.16	**GRPBX Graphitic Breccia** Grey/pink sub-angular to sub-rounded fragments most of which are between 0.5-30cm in size with a couple that are between 50-90cm. Most fragments are moderately to strongly overprinted with graphite. The large fragments have graphite fracture filling. Trace pyrite associated with unit. Lower contact irregular at 30dca.	Q157494	186.95	188.00	1.05	4.56	0.35	
			Q157496	188.00	189.00	1.00	2.95	0.21	
			Q157497	189.00	190.00	1.00	0.86	0.17	
			Q157498	190.00	191.00	1.00	0.8	0.3	
			Q157499	191.00	192.00	1.00	3.99	0.33	
			Q157500	192.00	193.00	1.00	0.68	0.13	
			Q157501	193.00	194.00	1.00	3.01	0.28	
			Q157502	194.00	195.00	1.00	2.33	0.21	
			Q157503	195.00	196.00	1.00	0.91	0.1	
			Q157505	196.00	197.00	1.00	2.5	0.16	2.61
			Q157506	197.00	198.00	1.00	1.63	0.22	2.63
			Q157507	198.00	199.00	1.00	2.49	0.28	2.61
			Q157508	199.00	200.00	1.00	1.63	0.3	2.62
			Q157509	200.00	201.00	1.00	1.48	0.42	2.61
			Q157510	201.00	202.00	1.00	1.89	0.25	
			Q157511	201.00	202.00	1.00	1.74	0.23	
			Q157512	202.00	203.00	1.00	0.94	0.13	
			Q157513	203.00	204.00	1.00	2	0.21	
			Q157514	204.00	205.16	1.16	4.93	0.28	
205.16	210.75	**IDP Intermediate Dike (Porphyritic)** Grey fine grained with green pink and white phenocrysts, the green ones have alteration halos. 206.59-206.84 felsic breccia, syenite fragments in a siliceous matrix. Lower contact irregular at 155dca.	Q157516	205.16	206.00	0.84	0.05	0.42	
			Q157517	206.00	207.00	1.00	0.28	0.25	2.74
			Q157518	207.00	208.00	1.00	0.02	0.25	2.75
			Q157519	208.00	209.00	1.00	0.01	0.29	2.77
			Q157520	209.00	210.00	1.00	0.01	0.25	2.76
			Q157521	210.00	210.75	0.75	0.01	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
210.75	212.61	**GRPBX Graphitic Breccia** Grey/pink sub-angular to sub-rounded fragments most of which are between 0.5-30cm in size. Most fragments are moderately to strongly overprinted with graphite. Lower contact sharp at ~90dca.	Q157522	210.75	212.00	1.25	3.28	0.27	
			Q157523	212.00	212.61	0.61	1.65	0.38	
212.61	217.00	**SYENOP Syenite with Graphitic Overprinting** Grey with some pink medium grained mildly overprinted syenite with weak fracture filling. 214.28-216 moderate to strong fracturing with possible fault gouge at 214.28. Fault? Lower contact sharp at 124dca.	Q157525	212.61	214.00	1.39	0.39	0.17	
			Q157526	214.00	215.00	1.00	0.21	0.06	
			Q157527	215.00	216.00	1.00	0.21	0.06	
			Q157528	216.00	217.00	1.00	0.3	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
217.00	239.71	**GRPBX Graphitic Breccia** Grey/pink sub-angular to sub-rounded fragments most of which are between 0.5-30cm in size. Fragments range from weakly to strongly over printed. 229.23-229.44 chlorite and biotite alteration zone possibly an altered mafic dyke at 60dca. 230.33-230.75 Porphyritic Intermediate Dyke with irregular contacts. 239.00-230.71 Porphyritic Intermediate Dyke between breccia and granodiorite. Upper Contact @ 77dca/LC @ 72dca. Lower contact at 72dca.	Q157529	217.00	218.00	1.00	1.34	0.26	
			Q157530	218.00	219.00	1.00	1.85	0.51	
			Q157531	218.00	219.00	1.00	1.82	0.54	
			Q157532	219.00	220.00	1.00	0.27	0.08	
			Q157533	220.00	221.00	1.00	1.51	0.21	
			Q157534	221.00	222.00	1.00	1.38	0.2	
			Q157536	222.00	223.00	1.00	1.26	0.2	
			Q157537	223.00	224.00	1.00	3.16	0.36	
			Q157538	224.00	225.00	1.00	1.43	0.2	
			Q157539	225.00	226.00	1.00	3.63	0.34	
			Q157540	226.00	227.00	1.00	1.59	0.31	
			Q157541	227.00	228.00	1.00	2.37	0.34	
			Q157542	228.00	229.00	1.00	2.52	0.22	
			Q157543	229.00	230.00	1.00	2	0.21	
			Q157545	230.00	231.00	1.00	2.02	0.27	
			Q157546	231.00	232.00	1.00	2.95	0.27	
			Q157547	232.00	233.00	1.00	0.49	0.21	
			Q157548	233.00	234.00	1.00	1.31	0.24	
			Q157549	234.00	235.00	1.00	1.8	0.68	
			Q157550	235.00	236.00	1.00	2.51	0.71	
			Q157551	235.00	236.00	1.00	2.62	0.68	
			Q157552	236.00	237.00	1.00	6.19	0.37	
			Q157553	237.00	238.00	1.00	5.46	0.32	
			Q157554	238.00	239.00	1.00	4.47	0.26	
			Q157556	239.00	239.71	0.71	0.01	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
239.71	257.94	**GRDROP Granodiorite with Graphitic Overprinting** Black and white medium grained with graphite fracture filling. The unit seems to be weakly to moderately overprinted with graphite. I have called this granodiorite due to the lower amount of orthoclase present. There are pink areas but they seem to be alteration along fractures, possibly bleaching? Lower contact at 78dca.	Q157557	239.71	240.00	0.29	2.94	0.16	
			Q157558	240.00	241.00	1.00	0.25	0.22	
			Q157559	241.00	242.00	1.00	0.32	0.24	2.64
			Q157560	242.00	243.00	1.00	0.2	0.24	2.63
			Q157561	243.00	244.00	1.00	0.35	0.2	2.63
			Q157562	244.00	245.00	1.00	0.57	0.23	2.64
			Q157563	245.00	246.00	1.00	0.28	0.26	2.63
			Q157565	246.00	247.00	1.00	0.18	0.15	
			Q157566	247.00	248.00	1.00	0.25	0.18	
			Q157567	248.00	249.00	1.00	0.23	0.14	
			Q157568	249.00	250.00	1.00	0.18	0.11	
			Q157569	250.00	251.00	1.00	0.42	0.2	
			Q157570	251.00	252.00	1.00	0.28	0.17	
			Q157571	251.00	252.00	1.00	0.29	0.18	
			Q157572	252.00	253.00	1.00	0.27	0.1	
			Q157573	253.00	254.00	1.00	0.43	0.06	
			Q157574	254.00	255.00	1.00	0.8	0.08	
			Q157576	255.00	256.00	1.00	0.14	0.06	
			Q157577	256.00	257.00	1.00	1.25	0.25	
			Q157578	257.00	257.94	0.94	0.09	0.07	
257.94	262.90	**SYENSL Syenite Sill (unmineralized)** Grey to green medium to coarse grained with finer grained siliceous zones. Chlorite fracture filling. Lower contact at 50dca.	Q157579	257.94	259.50	1.56	0.03	0.06	
			Q157580	259.50	261.00	1.50	0.03	0.04	
			Q157581	261.00	262.00	1.00	0.03	0.07	
			Q157582	262.00	262.90	0.90	0.05	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
262.90	267.67	**GRDROP Granodiorite with Graphitic Overprinting** Black and white medium grained with graphite fracture filling. The unit seems to be weakly to moderately overprinted with graphite. I have called this granodiorite due to the lower amount of orthoclase present. There are pink areas but they seem to be alteration along fractures, possibly bleaching? 266.08-266.15 pink fine grained felsic dyke at 90dca. The lower contact of this unit is a gradational change to a more orthoclase rich unit.	Q157583	262.90	264.00	1.10	0.14	0.13	
			Q157585	264.00	265.00	1.00	0.11	0.14	
			Q157586	265.00	266.00	1.00	0.18	0.19	
			Q157587	266.00	267.00	1.00	0.18	0.15	
			Q157588	267.00	267.67	0.67	0.15	0.09	
267.67	277.66	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained with mild to moderate graphite overprinting and fracture filling. 272.38-272.48 Porphyritic Intermediate Dyke, UC @ 114dca/LC @ 141dca. 276.56-277.66 Porphyritic Intermediate Dyke in between syenite and gabbro units. Upper Contact @ 82dca/LC @ 80dca. Lower contact irregular at 80dca.	Q157589	267.67	269.00	1.33	0.16	0.09	
			Q157591	269.00	270.00	1.00	0.18	0.05	
			Q157590	269.00	270.00	1.00	0.15	0.05	
			Q157592	270.00	271.00	1.00	0.07	0.07	
			Q157593	271.00	272.00	1.00	0.06	0.08	
			Q157594	272.00	273.00	1.00	0.09	0.13	
			Q157596	273.00	274.00	1.00	0.08	0.05	
			Q157597	274.00	275.00	1.00	0.07	0.09	
			Q157598	275.00	276.00	1.00	0.08	0.14	
			Q157599	276.00	276.56	0.56	0.08	0.16	
			Q157600	276.56	277.66	1.10	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
277.66	307.42	**SYENSL Syenite Sill (unmineralized)** Grey to green medium to coarse grained with finer grained siliceous zones. Chlorite fracture filling. This unit unlike most of the other sill units encountered has a more pervasive chlorite alteration not just along fractures giving the unit a more deep green colour. 279.30-280.10 moderate fracturing sub parallel with the core angle, chlorite along fracture planes. 281.60-281.79 possible felsic dyke, looks to originally be pink but now mostly green due to chlorite alteration? UC @ 40dca/LC @ 48dca. 248.15-284.54 strongly chloritic possibly mafic dyke moderate fracturing with chlorite along fracture planes. UC @ 162dca/LC @ 124dca. 290.72-290.93 Porphyritic Intermediate Dyke at 142dca. 291.19-291.33 Porphyritic Intermediate Dyke UC @ 125dca/LC @ 142dca. 295.02-295.10 Porphyritic Intermediate Dyke at 98dca. 296.04-296.20 Porphyritic Intermediate Dyke UC @ 72dca/LC @ 78 dca. 297.15-298.08 Porphyritic Intermediate Dyke at 40dca. Lower contact sharp at 136dca.	Q157601	277.66	279.00	1.34	0.05	0.07	
			Q157602	279.00	280.50	1.50	0.13	0.08	
			Q157603	280.50	282.00	1.50	0.05	0.13	
			Q157605	282.00	283.50	1.50	0.04	0.15	2.7
			Q157606	283.50	285.00	1.50	0.04	0.09	2.68
			Q157607	285.00	286.50	1.50	0.11	0.09	2.66
			Q157608	286.50	288.00	1.50	0.01	0.08	2.68
			Q157609	288.00	289.50	1.50	0.01	0.2	2.69
			Q157611	289.50	291.00	1.50	0.05	0.15	
			Q157610	289.50	291.00	1.50	0.07	0.17	
			Q157612	291.00	292.50	1.50	0.01	0.37	
			Q157613	292.50	294.00	1.50	0.03	0.23	
			Q157614	294.00	295.50	1.50	0.01	0.44	
			Q157616	295.50	297.00	1.50	0.01	0.36	
			Q157617	297.00	298.50	1.50	0.01	0.11	
			Q157618	298.50	300.00	1.50	0.01	0.15	
			Q157619	300.00	301.50	1.50	0.02	0.07	
			Q157620	301.50	303.00	1.50	0.01	0.05	
			Q157621	303.00	305.50	2.50	0.01	0.07	
			Q157622	305.50	306.00	0.50	0.01	0.07	
			Q157623	306.00	307.42	1.42	0.01	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
307.42	320.29	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained with mild to moderate graphite overprinting and fracture filling. Some minor carbonate along fractures. Lower contact sharp at 64dca.	Q157625	307.42	308.00	0.58	0.02	0.17	
			Q157626	308.00	309.00	1.00	0.05	0.06	
			Q157627	309.00	310.00	1.00	0.06	0.06	
			Q157628	310.00	311.00	1.00	0.1	0.18	
			Q157629	311.00	312.00	1.00	0.08	0.15	
			Q157631	312.00	313.00	1.00	0.26	0.14	
			Q157630	312.00	313.00	1.00	0.25	0.13	
			Q157632	313.00	314.00	1.00	0.2	0.05	
			Q157633	314.00	315.00	1.00	0.11	0.09	
			Q157634	315.00	316.00	1.00	0.07	0.15	
			Q157636	316.00	317.00	1.00	0.07	0.19	
			Q157637	317.00	318.00	1.00	0.17	0.11	
			Q157638	318.00	319.00	1.00	0.2	0.12	
			Q157639	319.00	320.29	1.29	0.03	0.13	
320.29	327.93	**ID Intermediate Dyke** Grey with some pink, fine grained dyke. The rock looks like a fine grained version of the syenite but does have distinct contacts. 324.00-324.82 moderate to strong fracturing, fragments are >7cm in size, there is chlorite on fracture plains. 324.82-325.42 a zone of regular syenite with dark unaltered chlorite fracture filling. 325.42-325.63 strongly fractures fault area with fault gouge and hematite staining. Lower contact sharp at 94dca.	Q157640	320.29	321.00	0.71	0.03	0.06	
			Q157641	321.00	322.00	1.00	0.03	0.07	
			Q157642	322.00	323.00	1.00	0.04	0.13	
			Q157643	323.00	324.00	1.00	0.06	0.03	
			Q157645	324.00	325.00	1.00	0.06	0.06	
			Q157646	325.00	326.00	1.00	0.18	0.03	
			Q157647	326.00	327.00	1.00	0.04	0.06	
			Q157648	327.00	327.93	0.93	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
327.93 -	365.61	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained with mild to moderate graphite overprinting and fracture filling. 335.90-336.38 grey fine grained felsic dyke at 41dca. 340.96-341.12 chlorite alteration with associated pyrite, UC @ 59dca/LC @ 67dca. 341.60-341.67 chlorite alteration with associated pyrite, @ 74dca. 347.51-347.61 chlorite alteration with associated pyrite, UC @ 22dca/LC @ 30dca. 348.15-348.35 chlorite alteration with associated pyrite and moderate fracturing @ 57dca. 348.57-348.64 chlorite alteration with associated pyrite, UC @ 40dca/LC @ 49dca. 349.42-349.51 chlorite alteration with associated pyrite, UC @ 49dca/ LC @ 41dca. 363.02-364.72 mildly foliated zone with chlorite and possible graphite? Lower contact sharp at 90dca.	Q157649	327.93	329.00	1.07	0.08	0.11	
			Q157650	329.00	330.00	1.00	0.19	0.13	
			Q157651	329.00	330.00	1.00	0.2	0.13	
			Q157652	330.00	331.00	1.00	0.08	0.15	
			Q157653	331.00	332.00	1.00	0.19	0.17	
			Q157654	332.00	333.00	1.00	0.17	0.22	
			Q157656	333.00	334.00	1.00	0.2	0.22	
			Q157657	334.00	335.00	1.00	0.1	0.12	
			Q157658	335.00	335.90	0.90	0.06	0.15	
			Q157659	335.90	336.38	0.48	0.01	0.04	
			Q157660	336.38	337.00	0.62	0.06	0.08	
			Q157661	337.00	338.00	1.00	0.14	0.13	
			Q157662	338.00	339.00	1.00	0.27	0.14	
			Q157663	339.00	340.00	1.00	0.09	0.16	
			Q157665	340.00	340.96	0.96	0.13	0.08	
			Q157666	340.96	341.67	0.71	0.24	0.66	
			Q157667	341.67	343.00	1.33	0.09	0.04	
			Q157668	343.00	344.00	1.00	0.15	0.03	
			Q157669	344.00	345.00	1.00	0.03	0.02	
			Q157671	345.00	346.00	1.00	0.02	0.02	
			Q157670	345.00	346.00	1.00	0.05	0.02	
			Q157672	346.00	347.00	1.00	1.22	0.02	
			Q157673	347.00	347.51	0.51	0.42	0.12	
			Q157674	347.51	348.50	0.99	0.18	0.18	
			Q157676	348.50	349.51	1.01	0.12	0.18	
			Q157677	349.51	350.00	0.49	0.04	1.04	
			Q157678	350.00	351.00	1.00	0.12	0.13	
			Q157679	351.00	352.00	1.00	0.17	0.22	
			Q157680	352.00	353.00	1.00	0.04	0.29	
			Q157681	353.00	354.00	1.00	0.17	0.18	
			Q157682	354.00	355.00	1.00	0.09	0.15	
			Q157683	355.00	356.00	1.00	0.11	0.18	
			Q157685	356.00	357.00	1.00	0.14	0.22	
			Q157686	357.00	358.00	1.00	0.09	0.11	
			Q157687	358.00	359.00	1.00	0.16	0.19	
			Q157688	359.00	360.00	1.00	0.82	0.23	

Lithology From	To	Lithology	Sample #	From	To	Len.	CG %	S %	Core Density
			Q157689	360.00	361.00	1.00	0.47	0.25	
			Q157690	361.00	362.00	1.00	0.31	0.15	
			Q157691	361.00	362.00	1.00	0.25	0.15	
			Q157692	362.00	363.02	1.02	0.27	0.17	
			Q157693	363.02	364.00	0.98	0.8	0.04	
			Q157694	364.00	364.72	0.72	0.29	0.03	
			Q157696	364.72	365.61	0.89	0.22	0.33	
365.61	381.66	**SYENSL Syenite Sill (unmineralized)** Grey to green medium to coarse grained, chlorite fracture filling some localized pervasive chlorite alteration. 372.00-381.66 moderate to strong fracturing mostly parallel to core angle. Stronger chloritic alteration in this area. EOH 381.66m	Q157697	365.61	366.00	0.39	0.01	0.21	
			Q157698	366.00	367.50	1.50	0.05	0.11	
			Q157699	367.50	369.00	1.50	0.02	0.19	
			Q157700	369.00	370.50	1.50	0.01	0.19	
			Q157701	370.50	372.00	1.50	0.01	0.06	
			Q157702	372.00	373.50	1.50	0.01	0.02	
			Q157703	373.50	375.00	1.50	0.02	0.05	
			Q157705	375.00	376.50	1.50	0.01	0.64	
			Q157706	376.50	378.00	1.50	0.01	0.03	
			Q157707	378.00	379.50	1.50	0.04	0.25	
			Q157708	379.50	381.00	1.50	0.05	0.07	
			Q157709	381.00	381.66	0.66	0.03	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Resource hole	405.00	27/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545622.4	682581.7			Reflex APS	01/10/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.60	305.70		-49.70	Chibougamau Diamond Drilling	01/10/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Ardian Peshkepia	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	339	*Casing Pulled*	*Casing (1)*	66.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To test west pipe from SouthEast	This drill hole intersected 77.00m of graphitic breccia from 117.95 to 194.95 with overprinted syenite sections. Two deeper mineralized breccia intevals were intersected from 232.66m to 252.74m for 20.08m and from 260.82m to 274.15m for 13.33m. From 92.25m to 288.20m, the assays from this intersection averaged 1.84% Cg over 195.95m; within this intersection a higher grade graphite zone from 112.00m to 194.95m averaged 2.71% Cg over 82.95m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			314.9	305.9	-50	-50	☑	Reflex EZ	56629	
75.00			315	306	-49.9	-49.9	☑	Reflex EZ	56527	
78.00			313.5	304.5	-50.1	-50.1	☑	Reflex EZ	56244	
81.00			314.8	305.8	-50	-50	☑	Reflex EZ	56490	
84.00			314.6	305.6	-50	-50	☑	Reflex EZ	56526	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			314.7	305.7	-50	-50	☑	Reflex EZ	56666	
90.00			314.1	305.1	-50	-50	☑	Reflex EZ	56469	
93.00			313.9	304.9	-49.9	-49.9	☑	Reflex EZ	56411	
96.00			314.4	305.4	-50	-50	☑	Reflex EZ	56536	
99.00			314.3	305.3	-50	-50	☑	Reflex EZ	56524	
102.00			314	305	-50	-50	☑	Reflex EZ	56446	
105.00			313.7	304.7	-50	-50	☑	Reflex EZ	56469	
108.00			314	305	-49.9	-49.9	☑	Reflex EZ	56532	
111.00			314	305	-49.9	-49.9	☑	Reflex EZ	56352	
114.00			314.1	305.1	-49.9	-49.9	☑	Reflex EZ	56253	
117.00			314.4	305.4	-49.9	-49.9	☑	Reflex EZ	56240	
120.00			314.6	305.6	-49.9	-49.9	☑	Reflex EZ	56308	
123.00			314.7	305.7	-49.9	-49.9	☑	Reflex EZ	56342	
126.00			315	306	-49.8	-49.8	☑	Reflex EZ	56377	
129.00			314.9	305.9	-49.9	-49.9	☑	Reflex EZ	56378	
132.00			314.8	305.8	-49.9	-49.9	☑	Reflex EZ	56418	
135.00			314.9	305.9	-49.8	-49.8	☑	Reflex EZ	56439	
138.00			315	306	-48.9	-48.9	☑	Reflex EZ	56367	
141.00			314.4	305.4	-49.3	-49.3	☑	Reflex EZ	56393	
144.00			314.9	305.9	-49.9	-49.9	☑	Reflex EZ	56454	
147.00			314.8	305.8	-49.9	-49.9	☑	Reflex EZ	56478	
150.00			314.8	305.8	-49.9	-49.9	☑	Reflex EZ	56471	
153.00			314.9	305.9	-49.8	-49.8	☑	Reflex EZ	56479	
156.00			315	306	-49.8	-49.8	☑	Reflex EZ	56467	
159.00			314.8	305.8	-49.8	-49.8	☑	Reflex EZ	56473	
162.00			314.8	305.8	-49.8	-49.8	☑	Reflex EZ	56436	
165.00			314.7	305.7	-49.8	-49.8	☑	Reflex EZ	56466	
168.00			314.9	305.9	-49.9	-49.9	☑	Reflex EZ	56448	
171.00			315.2	306.2	-49.8	-49.8	☑	Reflex EZ	56415	
174.00			315	306	-49.8	-49.8	☑	Reflex EZ	56470	
177.00			314.8	305.8	-49.8	-49.8	☑	Reflex EZ	56376	
180.00			314.7	305.7	-49.7	-49.7	☑	Reflex EZ	56451	
183.00			314.8	305.8	-49.7	-49.7	☑	Reflex EZ	56449	
186.00			314.8	305.8	-49.7	-49.7	☑	Reflex EZ	56461	
189.00			314.9	305.9	-49.6	-49.6	☑	Reflex EZ	56503	
192.00			315.1	306.1	-49.6	-49.6	☑	Reflex EZ	56472	
195.00			315	306	-49.5	-49.5	☑	Reflex EZ	56629	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
198.00			315.1	306.1	-49.5	-49.5	☑	Reflex EZ	56418	
201.00			314.8	305.8	-49.4	-49.4	☑	Reflex EZ	56619	
204.00			314.5	305.5	-49.3	-49.3	☑	Reflex EZ	56281	
207.00			314.1	305.1	-49.2	-49.2	☑	Reflex EZ	55954	
210.00			313.5	304.5	-49.2	-49.2	☑	Reflex EZ	55749	
216.00			314.3	305.3	-49.2	-49.2	☑	Reflex EZ	56154	
219.00			313.7	304.7	-49.1	-49.1	☑	Reflex EZ	56008	
222.00			316.1	307.1	-49	-49	☑	Reflex EZ	56405	
225.00			315.4	306.4	-49	-49	☑	Reflex EZ	56371	
228.00			315.6	306.6	-49	-49	☑	Reflex EZ	56552	
231.00			315.5	306.5	-49	-49	☑	Reflex EZ	56579	
234.00			315.6	306.6	-49	-49	☑	Reflex EZ	56485	
237.00			315.5	306.5	-49	-49	☑	Reflex EZ	56492	
240.00			315.4	306.4	-49	-49	☑	Reflex EZ	56480	
243.00			315.4	306.4	-49	-49	☑	Reflex EZ	56479	
246.00			315.3	306.3	-49	-49	☑	Reflex EZ	56364	
249.00			315.2	306.2	-49	-49	☑	Reflex EZ	56508	
252.00			315.4	306.4	-49	-49	☑	Reflex EZ	56502	
255.00			315.3	306.3	-49	-49	☑	Reflex EZ	56497	
258.00			315.3	306.3	-48.9	-48.9	☑	Reflex EZ	56339	
261.00			315.4	306.4	-48.9	-48.9	☑	Reflex EZ	56467	
264.00			315.3	306.3	-49	-49	☑	Reflex EZ	56444	
267.00			315.5	306.5	-48.9	-48.9	☑	Reflex EZ	56456	
270.00			314.6	305.6	-49	-49	☑	Reflex EZ	56324	
273.00			315.1	306.1	-49	-49	☑	Reflex EZ	56461	
276.00			315.3	306.3	-49	-49	☑	Reflex EZ	56524	
279.00			315.6	306.6	-48.9	-48.9	☑	Reflex EZ	56444	
282.00			313.5	304.5	-48.9	-48.9	☑	Reflex EZ	56051	
285.00			315.6	306.6	-49	-49	☑	Reflex EZ	56508	
288.00			315.8	306.8	-49	-49	☑	Reflex EZ	56444	
291.00			315.5	306.5	-49	-49	☑	Reflex EZ	56331	
294.00			315.2	306.2	-49	-49	☑	Reflex EZ	56006	
297.00			313.8	304.8	-49	-49	☑	Reflex EZ	56004	
300.00			315.7	306.7	-49	-49	☑	Reflex EZ	56351	
303.00			315	306	-49	-49	☑	Reflex EZ	56164	
306.00			315.6	306.6	-49	-49	☑	Reflex EZ	56043	
309.00			314.8	305.8	-49	-49	☑	Reflex EZ	56082	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
312.00			314.9	305.9	-49	-49	☑	Reflex EZ	56289	
315.00			314.9	305.9	-48.9	-48.9	☑	Reflex EZ	55990	
318.00			314.3	305.3	-48.9	-48.9	☑	Reflex EZ	56132	
321.00			315.5	306.5	-48.9	-48.9	☑	Reflex EZ	56199	
324.00			315.5	306.5	-49	-49	☑	Reflex EZ	56539	
327.00			315.7	306.7	-48.9	-48.9	☑	Reflex EZ	56520	
330.00			315.2	306.2	-48.9	-48.9	☑	Reflex EZ	56478	
333.00			316.6	307.6	-48.9	-48.9	☑	Reflex EZ	56350	
336.00			315.2	306.2	-48.9	-48.9	☑	Reflex EZ	56254	
339.00			315.3	306.3	-48.9	-48.9	☑	Reflex EZ	56492	
342.00			315.5	306.5	-48.9	-48.9	☑	Reflex EZ	56023	
345.00			315.8	306.8	-48.9	-48.9	☑	Reflex EZ	56592	
348.00			315.9	306.9	-48.9	-48.9	☑	Reflex EZ	56392	
351.00			315.5	306.5	-48.8	-48.8	☑	Reflex EZ	56427	
354.00			316.3	307.3	-48.8	-48.8	☑	Reflex EZ	56383	
357.00			316	307	-48.8	-48.8	☑	Reflex EZ	56060	
360.00			315.3	306.3	-48.9	-48.9	☑	Reflex EZ	56250	
363.00			315.8	306.8	-48.9	-48.9	☑	Reflex EZ	56232	
366.00			315.5	306.5	-48.8	-48.8	☑	Reflex EZ	56403	
369.00			314.3	305.3	-49	-49	☑	Reflex EZ	56163	
372.00			315.2	306.2	-48.4	-48.4	☑	Reflex EZ	55682	
375.00			315.9	306.9	-48.8	-48.8	☑	Reflex EZ	56226	
378.00			314	305	-48.7	-48.7	☑	Reflex EZ	56124	
381.00			315.6	306.6	-48	-48	☑	Reflex EZ	56284	
384.00			315.3	306.3	-48.4	-48.4	☑	Reflex EZ	56320	
387.00			315.4	306.4	-48.3	-48.3	☑	Reflex EZ	56379	
390.00			315.9	306.9	-48.9	-48.9	☑	Reflex EZ	56420	
393.00			315.9	306.9	-47.8	-47.8	☑	Reflex EZ	56341	
396.00			315.7	306.7	-48.8	-48.8	☑	Reflex EZ	56444	
399.00			315.6	306.6	-47.9	-47.9	☑	Reflex EZ	56407	
402.00			315.7	306.7	-47.8	-47.8	☑	Reflex EZ	56407	
405.00			315.7	306.7	-47.8	-47.8	☑	Reflex EZ	56412	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	66.70	**OB Overburden** From 0 to 62.8 unknown overburden. From 62.8 to 66.7 boulder sized fragments of limestone, mafic intrusives and syenite.							
66.70	68.20	**SYEN Syenite** Pinkish-red, massive, medium grained syenite. No visible graphite. Lower contact sharp at 70 dca.	N550169	66.70	68.20	1.50	0.03	0.01	
68.20	92.25	**IDP Intermediate Dike (Porphyritic)** Medium grey to greenish-grey, with a pink hue, medium grained porphyritic intermediate dyke. No visible graphite.	N550170	68.20	69.00	0.80	0.07	0.02	
			N550172	69.00	70.50	1.50	0.07	0.03	
			N550173	70.50	72.00	1.50	0.05	0.04	
			N550174	72.00	73.50	1.50	0.07	0.03	
			N550176	73.50	75.00	1.50	0.04	0.04	
			N550177	75.00	76.50	1.50	0.06	0.04	
			N550178	76.50	78.00	1.50	0.07	0.04	
			N550179	78.00	79.50	1.50	0.11	0.03	
			N550180	79.50	81.00	1.50	0.05	0.03	
			N550181	81.00	82.50	1.50	0.05	0.05	
			N550182	82.50	84.00	1.50	0.06	0.07	
			N550183	84.00	85.50	1.50	0.06	0.06	
			N550185	85.50	87.00	1.50	0.04	0.05	
			N550186	87.00	88.50	1.50	0.03	0.03	
			N550187	88.50	90.00	1.50	0.04	0.05	
			N550188	90.00	91.10	1.10	0.05	0.06	
			N550189	91.10	92.25	1.15	0.17	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
92.25	94.85	**SYEN Syenite** Light grey to pinkish-grey, medium grained massive syenite. No visible graphite.	N550190	92.25	93.10	0.85	1.02	0.5	
			N550192	93.10	94.00	0.90	0.25	0.23	
			N550193	94.00	94.85	0.85	0.26	0.04	
94.85	117.95	**FBX Felsic Breccia** Medium grey to pinkish-grey, brecciated syenite. Not conductive and no visible graphite. Mostly syenite fragments with few coarse mafic fragments. Few thin porphyritic intermediate dykes 10-20cm from 98 to 102.	N550194	94.85	95.90	1.05	0.54	0.09	
			N550196	95.90	97.00	1.10	0.28	0.5	
			N550197	97.00	98.00	1.00	0.21	0.4	
			N550198	98.00	99.00	1.00	0.07	0.27	
			N550199	99.00	100.00	1.00	0.08	0.16	
			N550200	100.00	101.00	1.00	0.07	0.29	
			N550201	101.00	102.00	1.00	0.07	0.36	
			N550202	102.00	103.00	1.00	0.12	0.32	
			N550203	103.00	104.00	1.00	0.15	0.21	
			N550205	104.00	105.00	1.00	0.37	0.37	
			N550206	105.00	106.00	1.00	0.31	0.36	
			N550207	106.00	107.00	1.00	0.27	0.34	
			N550208	107.00	108.00	1.00	0.04	0.41	
			N550209	108.00	109.00	1.00	0.52	0.66	
			N550210	109.00	110.00	1.00	0.39	0.44	
			N550212	110.00	111.00	1.00	0.68	0.29	
			N550213	111.00	112.00	1.00	1.89	0.27	
			N550214	112.00	113.00	1.00	3.69	0.33	
			N550216	113.00	114.00	1.00	3.43	0.4	
			N550217	114.00	115.00	1.00	2.94	0.45	
			N550218	115.00	116.00	1.00	0.87	0.23	
			N550219	116.00	117.00	1.00	0.14	0.22	
			N550220	117.00	117.95	0.95	2.02	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
117.95	122.10	**GRPBX Graphitic Breccia** Brecciated syenite similar to the previous unit but with graphite in the matrix and more angular fragments from 1 to 15cm. Weak to locally moderate graphite. Both contacts sharp at 50 dca.	N550221	117.95	119.00	1.05	4.49	0.4	
			N550222	119.00	119.80	0.80	2.58	0.43	
			N550223	119.80	120.64	0.84	4.03	0.86	
			N550225	120.64	121.40	0.76	5	0.39	
			N550226	121.40	122.10	0.70	5.78	0.57	
122.10	136.18	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium grained, massive syenite. Minor brecciated, pegmatitic sections from 131.5 to 133m. Weak graphite overprinting near the lower contact as fracture filling graphite veinlets.	N550227	122.10	123.00	0.90	0.21	0.18	
			N550228	123.00	124.00	1.00	0.27	0.14	
			N550229	124.00	125.00	1.00	0.02	0.04	
			N550230	125.00	126.00	1.00	0.04	0.09	
			N550232	126.00	127.00	1.00	0.05	0.09	
			N550233	127.00	128.00	1.00	0.03	0.08	
			N550234	128.00	129.00	1.00	0.01	0.03	
			N550236	129.00	130.00	1.00	0.05	0.1	
			N550237	130.00	131.00	1.00	0.06	0.09	
			N550238	131.00	132.00	1.00	0.1	0.05	
			N550239	132.00	133.00	1.00	0.05	0.06	
			N550240	133.00	134.00	1.00	0.05	0.05	
			N550241	134.00	135.10	1.10	0.03	0.07	
			N550242	135.10	136.18	1.08	0.75	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
136.18	150.00	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained, brecciated syenite. Moderate graphite as fracture filling veinlets and as locally graphite flooding. The amount of graphite increases downhole from 142 onwards. Trace sulphides as pyrite blebs. Minor carbonate veinlets from 137 to 138m.	N550243	136.18	137.10	0.92	5.62	0.49	
			N550245	137.10	138.00	0.90	4.34	0.3	
			N550246	138.00	139.00	1.00	2.09	0.28	2.61
			N550247	139.00	140.00	1.00	2.6	0.41	2.65
			N550248	140.00	141.00	1.00	6.56	0.6	2.59
			N550249	141.00	142.00	1.00	1.89	0.55	2.62
			N550250	142.00	143.00	1.00	2.72	0.51	2.63
			N550252	143.00	144.00	1.00	2.84	0.34	
			N550253	144.00	145.00	1.00	3.1	0.52	
			N550254	145.00	146.00	1.00	0.89	0.08	
			N550256	146.00	147.00	1.00	4.97	0.32	
			N550257	147.00	148.00	1.00	3.32	0.33	
			N550258	148.00	149.00	1.00	4.69	0.21	
			N550259	149.00	150.00	1.00	6.22	0.41	
150.00	153.22	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey, massive medium grained syenite. Weak graphite overprinting as isolated fracture filling graphite veinlets.	N550260	150.00	151.00	1.00	0.11	0.12	
			N550261	151.00	152.10	1.10	0.07	0.03	
			N550262	152.10	153.22	1.12	0.36	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
153.22	169.53	**GRPBX Graphitic Breccia** Dark grey brecciated syenite. Angular fragments 5-15cm in size in a dark grey fine grained matrix. Locally good graphite as semi-massive to massive blebs and veins.	N550263	153.22	154.10	0.88	1.88	0.16	
			N550265	154.10	155.00	0.90	2.1	0.19	
			N550266	155.00	156.00	1.00	3.94	0.16	
			N550267	156.00	157.00	1.00	7.08	0.37	
			N550268	157.00	158.00	1.00	6.66	0.41	
			N550269	158.00	159.00	1.00	5.44	0.4	
			N550270	159.00	160.00	1.00	6.03	0.52	
			N550272	160.00	161.00	1.00	4.84	0.43	
			N550273	161.00	162.00	1.00	2.11	0.19	
			N550274	162.00	163.00	1.00	4.21	0.31	
			N550276	163.00	164.00	1.00	3.86	0.47	
			N550277	164.00	165.00	1.00	3.19	0.48	
			N550278	165.00	166.00	1.00	1.88	0.77	
			N550279	166.00	166.80	0.80	0.55	0.13	
			N550280	166.80	167.70	0.90	0.19	0.16	
			N550281	167.70	168.60	0.90	2.55	0.27	
			N550282	168.60	169.53	0.93	6.51	0.35	
169.53	175.25	**SYENOP Syenite with Graphitic Overprinting** Reddish-grey, locally brecciated syenite. Weak graphite overprinting as fracture filling veinlets from 171 to 173. Strong fracturing, fault gouge from 170.1 to 170.5. Trace pyrite as coating on fracture faces.	N550283	169.53	170.50	0.97	3.2	0.21	
			N550285	170.50	171.60	1.10	2.09	0.12	
			N550286	171.60	172.70	1.10	1.41	0.12	
			N550287	172.70	174.00	1.30	0.39	0.06	
			N550288	174.00	175.25	1.25	0.21	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
175.25	194.95	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained, brecciated syenite. Good graphite as fracture filling veinlets and as fine grained graphite flooding in the matrix. Angular fragments range in size from <1 to 25cm. Few mafic and porphyritic intermediate fragments	N550289	175.25	176.20	0.95	4.32	0.4	
			N550290	176.20	177.10	0.90	3.95	0.26	
			N550292	177.10	178.00	0.90	5.04	0.54	
			N550293	178.00	179.00	1.00	5.31	0.29	
			N550294	179.00	180.00	1.00	5.5	0.38	
			N550296	180.00	181.00	1.00	5.93	0.45	
			N550297	181.00	182.00	1.00	5.98	0.36	
			N550298	182.00	183.00	1.00	2.74	0.23	2.62
			N550299	183.00	184.00	1.00	1.14	0.23	2.62
			N550300	184.00	185.00	1.00	3.22	0.28	2.64
			N550301	185.00	186.00	1.00	4.05	0.33	2.71
			N550302	186.00	187.00	1.00	2.31	0.3	2.85
			N550303	187.00	188.00	1.00	2.93	0.72	
			N550305	188.00	189.00	1.00	6.3	1.08	
			N550306	189.00	190.00	1.00	3.18	0.45	
			N550307	190.00	191.00	1.00	2.68	0.32	
			N550308	191.00	192.00	1.00	1.48	0.22	
			N550309	192.00	193.00	1.00	1.79	0.22	
			N550310	193.00	194.00	1.00	2.36	0.25	
			N550312	194.00	194.95	0.95	1.92	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
194.95	203.67	**FBX Felsic Breccia** Brecciated syenite, similar to the previous unit but not conductive and no visible graphite. Angular fragments of coarse grained syenite and some mafic fragments.	N550313	194.95	195.80	0.85	0.08	0.09	
			N550314	195.80	196.60	0.80	0.09	0.19	
			N550316	196.60	197.50	0.90	0.13	0.19	
			N550317	197.50	198.42	0.92	0.11	0.14	
			N550318	198.42	199.15	0.73	0.06	0.3	
			N550319	199.15	199.85	0.70	0.12	0.24	
			N550320	199.85	200.80	0.95	1.64	0.64	
			N550321	200.80	201.70	0.90	0.13	0.17	
			N550322	201.70	202.70	1.00	0.1	0.13	
			N550323	202.70	203.67	0.97	0.16	0.07	
203.67	220.02	**IDP Intermediate Dike (Porphyritic)** Medium to coarse grained, massive intermediate dyke, porphyritic. Dark green mafic phenos plus light pink feldspar zoned phenocrysts. Fairly uniform. Not conductive. Upper contact sharp at 55 dca. Lower contact sharp at 45 dca.	N550325	203.67	205.00	1.33	0.06	0.12	
			N550326	205.00	206.50	1.50	0.11	0.11	
			N550327	206.50	208.00	1.50	0.11	0.1	
			N550328	208.00	209.50	1.50	0.1	0.09	
			N550329	209.50	211.00	1.50	0.11	0.12	
			N550330	211.00	212.50	1.50	0.06	0.07	
			N550332	212.50	214.00	1.50	0.06	0.06	
			N550333	214.00	215.50	1.50	0.06	0.06	
			N550334	215.50	217.00	1.50	0.06	0.07	
			N550336	217.00	218.50	1.50	0.04	0.06	
			N550337	218.50	220.02	1.52	0.07	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
220.02	232.66	**FBX Felsic Breccia** Fragmental unit with angular fragments of syenite in a fine to very fine grained medium to dark grey matrix. Not conductive. No visible graphite. Syenite fragments range in size from 1 to 40cm. It's the host of the graphitic breccia without the graphite.	N550338	220.02	221.00	0.98	0.18	0.14	
			N550339	221.00	222.00	1.00	0.14	0.12	
			N550340	222.00	223.00	1.00	0.3	0.19	
			N550341	223.00	223.80	0.80	0.23	0.13	
			N550342	223.80	224.60	0.80	0.24	0.13	
			N550343	224.60	225.45	0.85	1.52	0.2	
			N550345	225.45	226.53	1.08	0.09	0.28	
			N550346	226.53	227.50	0.97	1.1	0.29	
			N550347	227.50	228.50	1.00	1.37	0.36	
			N550348	228.50	229.50	1.00	2.54	0.26	
			N550349	229.50	230.60	1.10	0.34	0.19	
			N550350	230.60	231.60	1.00	3.11	0.27	
			N550352	231.60	232.66	1.06	2.78	0.56	
232.66	242.65	**GRPBX Graphitic Breccia** Similar to the previous fragmental unit but with fracture filling graphite veinlets that increase downhole. From 236.1 to 242.65 dark grey to almost black very fine to fine grained section with very fine bedding at 50 dca; conductive due to very fine graphite.	N550353	232.66	233.60	0.94	1.24	0.32	
			N550354	233.60	234.60	1.00	0.94	0.22	
			N550356	234.60	235.50	0.90	0.6	0.35	
			N550357	235.50	236.40	0.90	5.77	0.36	
			N550358	236.40	237.30	0.90	6.42	0.3	
			N550359	237.30	238.20	0.90	7.88	0.31	
			N550360	238.20	239.10	0.90	7.84	0.31	
			N550361	239.10	240.00	0.90	7.73	0.31	
			N550362	240.00	240.90	0.90	7.51	0.32	
			N550363	240.90	241.80	0.90	9.21	0.3	
			N550365	241.80	242.65	0.85	8.84	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
242.65	245.70	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, coarse syenite with weak graphite overprinting as fracture filling graphite veinlets.	N550366	242.65	243.70	1.05	0.31	0.14	
			N550367	243.70	244.70	1.00	0.46	0.24	
			N550368	244.70	245.70	1.00	0.09	0.2	
245.70	252.74	**GRPBX Graphitic Breccia** Medium grey to pinkish-reddish-grey brecciated syenite. Moderate graphite as fracture filling veinlets and minor matrix flooding.	N550369	245.70	246.70	1.00	3.19	0.36	
			N550370	246.70	247.70	1.00	3.28	0.23	
			N550372	247.70	248.70	1.00	2.85	0.14	
			N550373	248.70	249.70	1.00	0.82	0.15	
			N550374	249.70	250.70	1.00	1.9	0.1	
			N550376	250.70	251.75	1.05	2.36	0.36	
			N550377	251.75	252.74	0.99	4.17	0.36	
252.74	255.00	**SYEN Syenite** Medium grey with reddish-pink patches coarse syenite. No visible graphite.	N550378	252.74	253.85	1.11	0.34	0.11	
			N550379	253.85	255.00	1.15	0.35	0.13	
255.00	255.65	**MD Mafic Dyke** Dark green to brownish-green, porphyritic mafic dyke. 2-10mm subhedral light grey feldspar phenocrysts in a brownish fine grained biotite matrix. No visible graphite. Upper contact sharp at 80 dca. Lower contact sharp at 30 dca.	N550380	255.00	255.65	0.65	0.1	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
255.65 -	260.82	**ID Intermediate Dyke** Medium to dark grey, fine to medium grained, massive intermediate dyke. Cross-cut by thin coarse felsic dykelets. No visible graphite. Lower contact sharp at 70 dca.	N550381	255.65	256.80	1.15	0.04	0.07	
			N550382	256.80	257.80	1.00	0.08	0.02	
			N550383	257.80	258.80	1.00	0.1	0.07	
			N550385	258.80	259.80	1.00	0.02	0.03	
			N550386	259.80	260.82	1.02	0.04	0.07	
260.82 -	274.15	**GRPBX Graphitic Breccia** Medium to dark grey brecciated syenite. Moderate to locally good graphite as graphite flooding in the matrix. Mix of large subrounded fragments of syenite (10-30cm) with small <1-2cm angular fragments. From 267.5 to 270 brecciated porphyritic intermediate dyke with no visible graphite. Lower contact sharp at 70 dca.	N550387	260.82	261.90	1.08	2.48	0.4	
			N550388	261.90	263.00	1.10	4.04	0.49	
			N550389	263.00	264.00	1.00	2.02	0.16	
			N550390	264.00	265.00	1.00	4.73	0.39	
			N550392	265.00	266.00	1.00	4.06	0.35	
			N550393	266.00	267.00	1.00	1.34	0.38	
			N550394	267.00	268.00	1.00	0.07	0.23	
			N550396	268.00	269.00	1.00	0.12	0.53	2.72
			N550397	269.00	270.00	1.00	0.18	0.33	2.69
			N550398	270.00	271.00	1.00	1.84	0.23	2.62
			N550399	271.00	272.00	1.00	2.39	0.52	2.62
			N550400	272.00	273.00	1.00	1.68	0.17	2.62
			N550401	273.00	274.15	1.15	4.55	0.14	
274.15 -	277.00	**IDP Intermediate Dike (Porphyritic)** Porphyritic intermediate dyke. Subhedral light pink feldspar phenocrysts and subrounded dark green amphibole phenocrysts at equal amounts in a fine grained massive greenish-grey matrix. Trace sulphides as pyrite blebs at 275.9. No visible graphite.	N550402	274.15	275.10	0.95	0.08	0.33	
			N550403	275.10	276.00	0.90	0.25	0.68	
			N550405	276.00	277.00	1.00	0.08	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
277.00	289.45	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, medium to coarse grained massive syenite. Very weak graphite overprinting as localized graphite veinlets from 283 to 284 and from 287 to 288m.	N550406	277.00	278.10	1.10	0.23	0.26	
			N550407	278.10	279.20	1.10	0.16	0.5	
			N550408	279.20	280.40	1.20	0.34	0.21	
			N550409	280.40	281.25	0.85	0.07	0.19	
			N550410	281.25	282.10	0.85	0.06	0.19	
			N550412	282.10	283.00	0.90	0.17	0.14	
			N550413	283.00	284.00	1.00	0.55	0.2	
			N550414	284.00	285.00	1.00	0.24	0.21	
			N550416	285.00	286.00	1.00	0.23	0.23	
			N550417	286.00	287.00	1.00	0.26	0.27	
			N550418	287.00	288.20	1.20	0.24	0.21	
			N550419	288.20	289.45	1.25	0.11	0.14	
289.45	304.78	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform, featureless. No visible graphite.	N550420	289.45	291.00	1.55	0.04	0.03	
			N550421	291.00	292.50	1.50	0.05	0.02	
			N550422	292.50	294.00	1.50	0.05	0.01	
			N550423	294.00	295.50	1.50	0.06	0.04	
			N550425	295.50	297.00	1.50	0.06	0.02	
			N550426	297.00	298.50	1.50	0.04	0.01	
			N550427	298.50	300.00	1.50	0.04	0.04	
			N550428	300.00	301.50	1.50	0.04	0.05	
			N550429	301.50	303.00	1.50	0.05	0.03	
			N550430	303.00	303.90	0.90	0.02	0.02	
			N550432	303.90	304.78	0.88	0.03	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
304.78	307.34	**FD Felsic Dyke** Medium grey to pinkish-grey, medium grained with granophyric texture felsic dyke. No visible graphite. Both contacts sharp at 85 dca. Chilled margins at both contacts for 25-30cm.	N550433	304.78	306.00	1.22	0.02	0.03	
			N550434	306.00	307.34	1.34	0.05	0.03	
307.34	320.40	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform, featureless. No visible graphite.	N550436	307.34	308.20	0.86	0.04	0.08	
			N550437	308.20	309.00	0.80	0.03	0.03	
			N550438	309.00	310.50	1.50	0.03	0.03	
			N550439	310.50	312.00	1.50	0.06	0.1	
			N550440	312.00	313.50	1.50	0.05	0.04	
			N550441	313.50	315.00	1.50	0.03	0.09	
			N550442	315.00	316.50	1.50	0.06	0.14	
			N550443	316.50	318.00	1.50	0.06	0.05	
			N550445	318.00	319.50	1.50	0.04	0.01	
			N550446	319.50	320.40	0.90	0.05	0.03	
320.40	321.93	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. No visible graphite. Upper contact sharp but irregular. Lower contact sharp at 70 dca.	N550447	320.40	321.93	1.53	0.03	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
321.93	339.21	**SYENOP Syenite with Graphitic Overprinting** Medium grey to pinkish-grey, coarse massive syenite. Very weak graphite overprint as isolated graphite veinlets at 327.7 and from 336 to 337.2m. From 322.10 to 324.4 mafic dyke subparallel to ca, fine grained biotite +chlorite. From 335 to 336.5 same mafic dyke biotite+chlorite schist.	N550448	321.93	323.00	1.07	0.44	0.06	
			N550449	323.00	324.00	1.00	0.39	0.02	
			N550450	324.00	325.00	1.00	0.53	0.07	
			N550452	325.00	326.00	1.00	0.26	0.09	
			N550453	326.00	327.00	1.00	0.12	0.02	
			N550454	327.00	328.00	1.00	0.18	0.02	
			N550456	328.00	329.00	1.00	0.13	0.14	
			N550457	329.00	330.00	1.00	0.05	0.09	
			N550458	330.00	331.00	1.00	0.14	0.19	
			N550459	331.00	332.00	1.00	0.11	0.25	
			N550460	332.00	333.00	1.00	0.06	0.17	
			N550461	333.00	334.00	1.00	0.18	0.29	
			N550462	334.00	335.00	1.00	0.25	0.25	
			N550463	335.00	336.00	1.00	0.38	0.13	
			N550465	336.00	337.00	1.00	0.72	0.05	
			N550466	337.00	338.10	1.10	0.64	0.22	
			N550467	338.10	339.21	1.11	0.2	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
339.21	382.30	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform, featureless. No visible graphite. Lower contact sharp at 75 dca.	N550468	339.21	340.50	1.29	0.06	0.16	
			N550469	340.50	342.00	1.50	0.03	0.05	
			N550470	342.00	343.50	1.50	0.02	0.03	
			N550472	343.50	345.00	1.50	0.06	0.05	
			N550473	345.00	346.50	1.50	0.03	0.04	
			N550474	346.50	348.00	1.50	0.01	0.02	
			N550476	348.00	349.50	1.50	0.03	0.03	
			N550477	349.50	351.00	1.50	0.02	0.03	
			N550478	351.00	352.50	1.50	0.03	0.02	
			N550479	352.50	354.00	1.50	0.02	0.02	
			N550480	354.00	355.50	1.50	0.02	0.02	
			N550481	355.50	357.00	1.50	0.02	0.03	
			N550482	357.00	358.50	1.50	0.04	0.03	
			N550483	358.50	360.00	1.50	0.03	0.02	
			N550485	360.00	361.50	1.50	0.02	0.03	
			N550486	361.50	363.00	1.50	0.04	0.02	
			N550487	363.00	364.50	1.50	0.06	0.04	
			N550488	364.50	366.00	1.50	0.1	0.03	
			N550489	366.00	367.50	1.50	0.03	0.05	
			N550490	367.50	369.00	1.50	0.05	0.04	
			N550492	369.00	370.50	1.50	0.02	0.03	
			N550493	370.50	372.00	1.50	0.01	0.03	
			N550494	372.00	373.50	1.50	0.03	0.02	
			N550496	373.50	375.00	1.50	0.03	0.04	
			N550497	375.00	376.50	1.50	0.03	0.06	
			N550498	376.50	378.00	1.50	0.05	0.09	
			N550499	378.00	379.50	1.50	0.06	0.08	
			N550500	379.50	381.00	1.50	0.06	0.06	
			N550501	381.00	382.30	1.30	0.04	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
382.30	405.00	**SYEN Syenite** Pink to reddish-pink, massive coarse grained syenite. Locally pegmatitic. Not conductive, no visible graphite. Blocky core, strong fracturing from 400.5 to 402. EOH 405.0m	N550502	382.30	383.50	1.20	0.08	0.07	
			N550503	383.50	385.00	1.50	0.13	0.07	
			N550505	385.00	386.50	1.50	0.06	0.04	
			N550506	386.50	388.00	1.50	0.06	0.03	
			N550507	388.00	389.50	1.50	0.08	0.04	
			N550508	389.50	391.00	1.50	0.05	0.05	
			N550509	391.00	392.00	1.00	0.07	0.12	
			N550510	392.00	393.00	1.00	0.07	0.05	
			N550512	393.00	394.50	1.50	0.1	0.1	
			N550513	394.50	396.00	1.50	0.04	0.07	
			N550514	396.00	397.50	1.50	0.04	0.07	
			N550516	397.50	399.00	1.50	0.12	0.04	
			N550517	399.00	400.50	1.50	0.05	0.06	
			N550518	400.50	402.00	1.50	0.07	0.06	
			N550519	402.00	403.50	1.50	0.04	0.05	
			N550520	403.50	405.00	1.50	0.01	0.04	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	303.14	30/09/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545573.6	682518.8			Reflex APS		03/10/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.90	298.30		-51.50	Chibougamau Diamond Drilling		04/10/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Clayton Kennedy		Clayton Kennedy		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	240.14	**Casing Pulled**	**Casing (1)**	31.00	Steel	**Plugged**	**Pulsed**	**Geophysics Contractor**	**Date Pulsed**
(2)			☐	**(2)**	63.00	Steel	☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
To help define the boundary of the West Pipe.	Four graphitic breccia units between 91.05m and 180.80m seperated by syenite and granodiorite. Major fracturing occurred between ~181m to ~207m and ~246m to ~290m including a 3m wide section of fault gouge and rubble at 249m to 252m. The breccia units help in defining the boundary of the pipe. The assays from 65.00m to 230.18m averaged 1.59% Cg over 165.18m; within this intersection a higher grade graphite zone from 92.00m to 180.00m averaged 2.75% Cg over 88.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
78.00			306.8	297.8	-51.7	-51.7	☑	Reflex EZ	56550	
81.00			306.3	297.3	-51.6	-51.6	☑	Reflex EZ	56464	
84.00			306.6	297.6	-51.6	-51.6	☑	Reflex EZ	56423	
87.00			306.9	297.9	-51.5	-51.5	☑	Reflex EZ	56401	
90.00			305.7	296.7	-51.8	-51.8	☑	Reflex EZ	56329	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
93.00			306.3	297.3	-51.8	-51.8	☑	Reflex EZ	56329	
96.00			306	297	-51.7	-51.7	☑	Reflex EZ	56351	
99.00			305.8	296.8	-51.8	-51.8	☑	Reflex EZ	56127	
102.00			305.6	296.6	-51.9	-51.9	☑	Reflex EZ	56286	
105.00			306.5	297.5	-51.8	-51.8	☑	Reflex EZ	56288	
108.00			306.1	297.1	-51.8	-51.8	☑	Reflex EZ	56283	
111.00			307.4	298.4	-51.6	-51.6	☑	Reflex EZ	56343	
114.00			306.9	297.9	-51.7	-51.7	☑	Reflex EZ	56317	
117.00			306	297	-51.7	-51.7	☑	Reflex EZ	56335	
120.00			306.2	297.2	-51.6	-51.6	☑	Reflex EZ	56299	
123.00			306.6	297.6	-51.5	-51.5	☑	Reflex EZ	56314	
126.00			306.2	297.2	-51.5	-51.5	☑	Reflex EZ	56275	
129.00			306.6	297.6	-51.6	-51.6	☑	Reflex EZ	56243	
132.00			306.5	297.5	-51.6	-51.6	☑	Reflex EZ	56244	
135.00			306.7	297.7	-51.6	-51.6	☑	Reflex EZ	56174	
138.00			308	299	-51.3	-51.3	☑	Reflex EZ	56306	
141.00			308.1	299.1	-51.2	-51.2	☑	Reflex EZ	56331	
144.00			306.4	297.4	-51.6	-51.6	☑	Reflex EZ	56270	
147.00			308.1	299.1	-51.2	-51.2	☑	Reflex EZ	56314	
150.00			306.6	297.6	-51.5	-51.5	☑	Reflex EZ	56142	
153.00			307.2	298.2	-51.5	-51.5	☑	Reflex EZ	56292	
156.00			308.1	299.1	-51.2	-51.2	☑	Reflex EZ	56317	
159.00			306.4	297.4	-51.5	-51.5	☑	Reflex EZ	56260	
162.00			306.5	297.5	-51.5	-51.5	☑	Reflex EZ	56251	
165.00			306.8	297.8	-51.5	-51.5	☑	Reflex EZ	56312	
168.00			307	298	-51.6	-51.6	☑	Reflex EZ	56245	
171.00			307.2	298.2	-51.5	-51.5	☑	Reflex EZ	56238	
174.00			307	298	-51.4	-51.4	☑	Reflex EZ	56273	
177.00			306.5	297.5	-51.5	-51.5	☑	Reflex EZ	56297	
180.00			306.5	297.5	-51.6	-51.6	☑	Reflex EZ	56231	
183.00			306.6	297.6	-51.6	-51.6	☑	Reflex EZ	56250	
186.00			306.6	297.6	-51.6	-51.6	☑	Reflex EZ	56254	
189.00			307.5	298.5	-51.5	-51.5	☑	Reflex EZ	56269	
192.00			306.2	297.2	-51.6	-51.6	☑	Reflex EZ	56213	
195.00			306.8	297.8	-51.6	-51.6	☑	Reflex EZ	56205	
198.00			308.2	299.2	-51.3	-51.3	☑	Reflex EZ	56305	
201.00			308	299	-51.4	-51.4	☑	Reflex EZ	56313	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
204.00			307.4	298.4	-51.6	-51.6	☑	Reflex EZ	56235	
207.00			306.9	297.9	-51.5	-51.5	☑	Reflex EZ	56294	
210.00			308.2	299.2	-51.3	-51.3	☑	Reflex EZ	56357	
213.00			307.8	298.8	-51.4	-51.4	☑	Reflex EZ	56319	
216.00			306.7	297.7	-51.6	-51.6	☑	Reflex EZ	56276	
219.00			308.1	299.1	-51.3	-51.3	☑	Reflex EZ	56269	
222.00			306.9	297.9	-51.5	-51.5	☑	Reflex EZ	56271	
225.00			308.1	299.1	-51.3	-51.3	☑	Reflex EZ	56358	
228.00			307	298	-51.6	-51.6	☑	Reflex EZ	56244	
231.00			307.4	298.4	-51.5	-51.5	☑	Reflex EZ	56264	
234.00			306.8	297.8	-51.5	-51.5	☑	Reflex EZ	56257	
237.00			308	299	-51.3	-51.3	☑	Reflex EZ	56368	
240.00			307.4	298.4	-51.4	-51.4	☑	Reflex EZ	56263	
243.00			307.6	298.6	-51.4	-51.4	☑	Reflex EZ	56304	
246.00			308.6	299.6	-51.2	-51.2	☑	Reflex EZ	56262	
249.00			307.8	298.8	-51.3	-51.3	☑	Reflex EZ	56149	
252.00			306.8	297.8	-51.4	-51.4	☑	Reflex EZ	56129	
255.00			306.8	297.8	-51.4	-51.4	☑	Reflex EZ	56186	
258.00			307	298	-51.3	-51.3	☑	Reflex EZ	56155	
264.00			306.8	297.8	-51.4	-51.4	☑	Reflex EZ	56381	
267.00			305.6	296.6	-51.5	-51.5	☑	Reflex EZ	56445	
270.00			307.3	298.3	-51.2	-51.2	☑	Reflex EZ	56504	
273.00			306.3	297.3	-51.1	-51.1	☑	Reflex EZ	56033	
276.00			306.5	297.5	-51.1	-51.1	☑	Reflex EZ	56378	
279.00			307.7	298.7	-51.1	-51.1	☑	Reflex EZ	56215	
282.00			307.4	298.4	-51.2	-51.2	☑	Reflex EZ	56448	
285.00			307.5	298.5	-51.2	-51.2	☑	Reflex EZ	56287	
288.00			306.6	297.6	-51.3	-51.3	☑	Reflex EZ	56237	
291.00			308.2	299.2	-51.2	-51.2	☑	Reflex EZ	56480	
294.00			308.1	299.1	-51.1	-51.1	☑	Reflex EZ	56386	
297.00			307.9	298.9	-51.1	-51.1	☑	Reflex EZ	56474	
303.00			306.6	297.6	-51.3	-51.3	☑	Reflex EZ	55805	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	54.50	**OB Overburden** Unknown overburden.							
54.50	58.85	**SED Sediment** Light to dark grey limestone. Lower contact is an unconformity.							
58.85	71.10	**SYEN Syenite** Pink/orange, fine to medium grained with localized weakly graphitic fracture filling. The unit itself is not conductive and is moderately to strongly weathered and has white carbonate staining throughout. The upper part of the unit is very rubbly probably due to the unconformity contact. The lower contact is probably more gradational but I have chosen a sharp fracture plain at 149dca, just past where the stronger weathering stops.	Q157711	58.85	60.00	1.15	0.09	0.03	
			Q157710	58.85	60.00	1.15	0.11	0.03	
			Q157712	60.00	61.00	1.00	0.17	0.02	
			Q157713	61.00	62.00	1.00	0.19	0.02	
			Q157714	62.00	63.00	1.00	0.14	0.02	
			Q157716	63.00	64.00	1.00	0.28	0.02	
			Q157717	64.00	65.00	1.00	0.17	0.02	
			Q157718	65.00	66.00	1.00	0.56	0.02	
			Q157719	66.00	67.00	1.00	0.28	0.02	
			Q157720	67.00	68.00	1.00	0.18	0.09	
			Q157721	68.00	69.00	1.00	0.26	0.05	
			Q157722	69.00	70.00	1.00	0.29	0.02	
			Q157723	70.00	71.10	1.10	0.26	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
71.10	89.00	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink in areas especially along carbonate filled fractures, fine grained. The unit is weakly conductive but moderate graphite fracture filling can be found throughout. 77.26-77.58 Porphyritic Intermediate Dyke, grey with pink and green phenocrysts some of which have alteration halos or have been completely altered. Upper Contact at 122dca/Lower Contact irregular.	Q157725	71.10	72.00	0.90	0.51	0.02	
			Q157726	72.00	73.00	1.00	0.27	0.01	
			Q157727	73.00	74.00	1.00	0.15	0.02	
			Q157728	74.00	75.00	1.00	0.25	0.06	
			Q157729	75.00	76.00	1.00	0.22	0.07	
			Q157730	76.00	77.00	1.00	0.22	0.04	
			Q157732	77.00	78.00	1.00	1.25	0.04	
			Q157733	78.00	79.00	1.00	0.17	0.03	
			Q157734	79.00	80.00	1.00	0.12	0.05	
			Q157736	80.00	81.00	1.00	0.14	0.07	
			Q157737	81.00	82.00	1.00	0.13	0.03	
			Q157738	82.00	83.00	1.00	0.15	0.04	
			Q157739	83.00	84.00	1.00	0.27	0.12	
			Q157740	84.00	85.00	1.00	0.36	0.11	
			Q157741	85.00	86.00	1.00	0.07	0.07	
			Q157742	86.00	87.00	1.00	0.02	0.12	
			Q157743	87.00	88.00	1.00	0.04	0.2	
			Q157745	88.00	89.00	1.00	0.04	0.85	
89.00	91.05	**FBX Felsic Breccia** Mostly syenite with felsic fragments and no graphite. The syenite is pink and has no graphitic overprinting. The felsic fragments are angular to sub-angular and 1-5cm in size. The unit is 85/15 matrix/fragments. Lower contact sharp at 45dca.	Q157746	89.00	90.00	1.00	0.12	0.29	
			Q157747	90.00	91.05	1.05	0.25	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
91.05	102.58	**GRPBX Graphitic Breccia** Pink to grey fragments in a graphite rich matrix. Most fragments are 0.5-10cm in size with some larger fragments or small sub units of syenite from 30-50cm wide. Fragments are sub-angular to sub-rounded and are weakly overprinted with graphite; some of the larger syenite areas exhibit graphite fracture filling. 91.44-91.90 biotite rich alteration zone. 99.63-99.97 a biotite and chlorite rich zone with sharp contacts at 40dca. Possibly a mafic dyke. Lower contact irregular at 80dca.	Q157748	91.05	92.00	0.95	1.16	0.06	
			Q157749	92.00	93.00	1.00	5.27	0.28	
			Q157751	93.00	94.00	1.00	4.75	0.26	
			Q157750	93.00	94.00	1.00	4.81	0.26	
			Q157752	94.00	95.00	1.00	4.79	0.14	
			Q157753	95.00	96.00	1.00	0.3	0.07	
			Q157754	96.00	97.00	1.00	0.27	0.08	
			Q157756	97.00	98.00	1.00	0.13	0.09	
			Q157757	98.00	99.00	1.00	0.32	0.05	
			Q157758	99.00	99.63	0.63	0.48	0.07	
			Q157759	99.63	99.97	0.34	1.87	0.17	
			Q157760	99.97	101.00	1.03	0.11	0.07	
			Q157761	101.00	102.00	1.00	4.01	0.08	
			Q157762	102.00	102.58	0.58	2.13	0.09	
102.58	107.76	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine grained. The unit is weakly overprinted with graphite and has moderate graphitic fracture filling. The entire unit is moderately fractured. 105.50-106.50 moderate/strong fracturing. Lower contact sharp at 80dca.	Q157763	102.58	104.00	1.42	0.38	0.08	
			Q157765	104.00	105.00	1.00	0.24	0.14	
			Q157766	105.00	106.00	1.00	0.19	0.12	
			Q157767	106.00	107.00	1.00	1.35	0.11	
			Q157768	107.00	107.76	0.76	1.46	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
107.76	141.70	**GRPBX Graphitic Breccia** Mostly grey with some pink fragments in a graphite rich matrix. Most fragments are 0.5-10cm in size with some larger fragments or small sub units of syenite from 30-50cm wide. Fragments are angular to sub-rounded and are weakly to moderately overprinted with graphite. 117.00-118.41 chlorite and biotite rich alteration zone becoming stronger between 117.54 and 118.41 possibly an over printed mafic dyke? 120.14-121.10 Fine grained grey intermediate dyke with mild hematite staining along some fractures. Lower contact sharp at 60dca.	Q157769	107.76	109.00	1.24	4.19	0.13	
			Q157770	109.00	110.00	1.00	4.73	0.21	
			Q157771	109.00	110.00	1.00	4.26	0.27	
			Q157772	110.00	111.00	1.00	4.66	0.21	
			Q157773	111.00	112.00	1.00	0.14	0.12	
			Q157774	112.00	113.00	1.00	4.73	0.24	
			Q157776	113.00	114.00	1.00	1.51	0.1	
			Q157777	114.00	115.00	1.00	6.19	0.29	
			Q157778	115.00	116.00	1.00	3.63	0.25	
			Q157779	116.00	117.00	1.00	2.8	0.36	
			Q157780	117.00	117.54	0.54	1.79	0.69	
			Q157781	117.54	118.41	0.87	2.7	0.71	
			Q157782	118.41	119.00	0.59	7.7	0.25	
			Q157783	119.00	120.14	1.14	0.86	0.2	
			Q157785	120.14	121.10	0.96	0.01	0.05	
			Q157786	121.10	122.00	0.90	4.84	0.27	
			Q157787	122.00	123.00	1.00	4.28	0.39	
			Q157788	123.00	124.00	1.00	4	0.3	
			Q157789	124.00	125.00	1.00	0.55	0.15	
			Q157790	125.00	126.00	1.00	4.13	0.3	
			Q157791	125.00	126.00	1.00	4.1	0.3	
			Q157792	126.00	127.00	1.00	2.91	0.2	
			Q157793	127.00	128.00	1.00	6.27	0.19	
			Q157794	128.00	129.00	1.00	1.65	0.26	
			Q157796	129.00	130.00	1.00	5.95	0.33	
			Q157797	130.00	131.00	1.00	5.58	0.23	
			Q157798	131.00	132.00	1.00	4.9	0.35	
			Q157799	132.00	133.00	1.00	2.37	0.29	
			Q157800	133.00	134.00	1.00	2.28	0.28	
			Q157801	134.00	135.00	1.00	5.22	0.33	
			Q157802	135.00	136.00	1.00	4.46	0.26	
			Q157803	136.00	137.00	1.00	3.85	0.28	
			Q157805	137.00	138.00	1.00	6.13	0.33	
			Q157806	138.00	139.00	1.00	4.93	0.19	
			Q157807	139.00	140.00	1.00	3.31	0.11	
			Q157808	140.00	141.00	1.00	0.68	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q157809	141.00	141.70	0.70	1.54	0.11	
141.70	151.47	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained with mild overprinting and graphite fracture filling. There is 15% localized graphite rich breccia in this unit. 148.56-148.90 Porphyritic Intermediate Dyke, Upper Contact @ 110dca/LC @ 48dca. Lower contact gradational.	Q157811	141.70	143.00	1.30	0.24	0.15	
			Q157810	141.70	143.00	1.30	0.24	0.15	
			Q157812	143.00	144.00	1.00	0.94	0.18	
			Q157813	144.00	145.00	1.00	0.14	0.13	
			Q157814	145.00	146.00	1.00	3.28	0.17	
			Q157816	146.00	147.00	1.00	4.49	0.24	2.62
			Q157817	147.00	148.00	1.00	0.67	0.19	2.62
			Q157818	148.00	149.00	1.00	0.22	0.21	2.61
			Q157819	149.00	150.00	1.00	2.59	0.18	2.65
			Q157820	150.00	151.00	1.00	1.02	0.2	2.62
			Q157821	151.00	151.47	0.47	0.33	0.18	
151.47	157.65	**GRDROP Granodiorite with Graphitic Overprinting** Black and white medium to coarse grained with areas of mild biotite and chlorite alteration. Mild graphite overprinting and possible fracture filling. Lower contact sharp at 28dca.	Q157822	151.47	152.00	0.53	0.08	0.1	
			Q157823	152.00	153.00	1.00	0.14	0.13	
			Q157825	153.00	154.00	1.00	0.12	0.1	
			Q157826	154.00	155.00	1.00	0.11	0.09	
			Q157827	155.00	156.00	1.00	0.12	0.07	
			Q157828	156.00	157.00	1.00	0.14	0.12	
			Q157829	157.00	157.65	0.65	0.91	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
157.65	168.98	**GRPBX Graphitic Breccia** Mostly grey with some pink and also green chlorite altered fragments in a graphite rich matrix. Most fragments are 0.5-10cm in size with some larger fragments or small sub units of syenite from 30-50cm wide. Fragments are angular to sub-rounded and are weakly to strongly overprinted with graphite. There are trace amounts of pyrite associated with the matrix along fractures and possibly in fragments of this unit. Lower contact sharp at 130dca.	Q157831	157.65	158.00	0.35	6.18	0.46	
			Q157830	157.65	158.00	0.35	6.2	0.45	
			Q157832	158.00	159.00	1.00	4.14	0.24	
			Q157833	159.00	160.00	1.00	4.91	0.22	
			Q157834	160.00	161.00	1.00	5.16	0.39	
			Q157836	161.00	162.00	1.00	6.26	0.52	
			Q157837	162.00	163.00	1.00	5.26	0.27	
			Q157838	163.00	164.00	1.00	4.56	0.21	
			Q157839	164.00	165.00	1.00	4.03	0.36	
			Q157840	165.00	165.92	0.92	4.52	0.19	
			Q157841	165.92	166.98	1.06	1.14	0.09	
			Q157842	166.98	168.00	1.02	3.16	0.28	
			Q157843	168.00	169.00	1.00	1.92	0.3	
168.98	171.13	**GRDROP Granodiorite with Graphitic Overprinting** Black white and some pale pink, especially along fractures. Weak graphite overprinting and moderate graphite fracture filling. 168.58-169.30m siliceous zone with an almost breccia look created by strong bleaching? Along fractures Felsic breccia? Lower contact sharp at 125dca.	Q157845	169.00	170.00	1.00	0.14	0.21	
			Q157846	170.00	171.13	1.13	1.6	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
171.13	180.80	**GRPBX Graphitic Breccia** Mostly pink with some grey fragments in a graphite rich matrix. Most fragments are 0.5-10cm in size. Fragments are angular to sub-rounded and are mostly weakly overprinted but some are moderately to strongly overprinted with graphite. Moderate hematite staining along some fractures and within some fragments. Lower contact sharp at 105m.	Q157847	171.13	172.00	0.87	3.95	0.37	
			Q157848	172.00	173.00	1.00	1.33	0.13	
			Q157849	173.00	174.00	1.00	5.42	0.29	
			Q157851	174.00	175.00	1.00	3.09	0.28	
			Q157850	174.00	175.00	1.00	3.03	0.27	
			Q157852	175.00	176.00	1.00	2.33	0.27	
			Q157853	176.00	177.00	1.00	3.9	0.27	
			Q157854	177.00	178.00	1.00	2.38	0.25	
			Q157856	178.00	179.00	1.00	3.43	0.21	
			Q157857	179.00	180.00	1.00	3.24	0.17	
			Q157858	180.00	180.80	0.80	5.9	0.38	
180.80	190.95	**GRDROP Granodiorite with Graphitic Overprinting** Black white and some pale pink especially along fractures. Weak graphite overprinting and moderate graphite fracture filling. This unit is becoming very fractured due to a large fault zone. 180.80-188.00m moderate fracturing with some localized strong fracturing. 188.00-190.5m strong to extreme fracturing, most of the core is rubble. Lower contact is within the rubble and is hard to pin point.	Q157859	180.80	182.00	1.20	0.43	0.23	2.63
			Q157860	182.00	183.00	1.00	0.19	0.15	2.6
			Q157861	183.00	184.00	1.00	0.13	0.11	2.59
			Q157862	184.00	185.00	1.00	0.09	0.11	2.62
			Q157863	185.00	186.00	1.00	0.16	0.18	2.64
			Q157865	186.00	187.00	1.00	0.17	0.22	
			Q157866	187.00	188.00	1.00	0.14	0.17	
			Q157867	188.00	189.00	1.00	0.19	0.17	
			Q157868	189.00	190.00	1.00	0.24	0.16	
			Q157869	190.00	190.95	0.95	0.15	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
190.95	207.15	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained with mild overprinting and graphite fracture filling. This unit is moderately to strongly fractured throughout with some areas becoming extremely fractured. 190.95-196.00 mostly strong to extreme fracturing fragments are almost a coarse grained sand locally. 197.00-197.86 dark grey/green, deep red strongly foliated soft rock. Chlorite carbonate and hematite alteration, some gouge like material at contacts which are at 40dca. 205.00-207.15 strong to extreme fracturing. 205.90-205.98 small <1cm rubble held together with a matrix of fault gouge. Lower contact is within the rubble and is unable to pin point.							
			Q157871	190.95	192.00	1.05	0.16	0.14	
			Q157870	190.95	192.00	1.05	0.16	0.13	
			Q157872	192.00	193.00	1.00	0.11	0.12	
			Q157873	193.00	194.00	1.00	0.2	0.09	
			Q157874	194.00	195.00	1.00	0.32	0.09	
			Q157876	195.00	196.00	1.00	0.7	0.15	
			Q157877	196.00	197.00	1.00	0.84	0.18	
			Q157878	197.00	197.86	0.86	0.22	0.43	
			Q157879	197.86	199.00	1.14	0.34	0.17	
			Q157880	199.00	200.00	1.00	0.35	0.16	
			Q157881	200.00	201.00	1.00	0.11	0.14	
			Q157882	201.00	202.00	1.00	0.21	0.09	
			Q157883	202.00	203.00	1.00	0.27	0.14	
			Q157885	203.00	204.00	1.00	0.18	0.04	
			Q157886	204.00	205.00	1.00	0.12	0.05	
			Q157887	205.00	206.00	1.00	0.31	0.01	
			Q157888	206.00	207.15	1.15	0.22	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
207.15	223.25	**GR Granite** Pale pink, black and white, medium to coarse grained. This unit is very weakly conductive and does not seem to have any graphite in fractures. This unit has too much quartz to be a syenite and too much orthoclase to be a diorite although some areas through out the unit seem to be more plagioclase rich and closer to a diorite. 222.60-222.95 grey felsic dyke with contacts at 136dca. Lower contact at 223.25 - this contact is gradational and I am not sure if the rest of the rock from here to 245.92m is actually one unit with quartz rich and quartz poor phases or actual units (I have broken it out into units.)	Q157889	207.15	208.00	0.85	0.19	0.14	
			Q157890	208.00	209.00	1.00	0.21	0.18	
			Q157891	208.00	209.00	1.00	0.21	0.18	
			Q157892	209.00	210.00	1.00	0.12	0.12	
			Q157893	210.00	211.00	1.00	0.11	0.09	
			Q157894	211.00	212.00	1.00	0.07	0.1	
			Q157896	212.00	213.00	1.00	0.12	0.1	2.63
			Q157897	213.00	214.00	1.00	0.2	0.13	2.62
			Q157898	214.00	215.00	1.00	0.09	0.1	2.62
			Q157899	215.00	216.00	1.00	0.12	0.14	2.61
			Q157900	216.00	217.00	1.00	0.18	0.13	2.63
			Q157901	217.00	218.00	1.00	0.1	0.11	
			Q157902	218.00	219.00	1.00	0.15	0.11	
			Q157903	219.00	220.00	1.00	0.16	0.08	
			Q157905	220.00	221.00	1.00	0.02	0.04	
			Q157906	221.00	222.00	1.00	0.08	0.1	
			Q157907	222.00	223.25	1.25	0.06	0.1	
223.25	231.16	**SYEN Syenite** Grey pink, fine to medium grained, very similar to the above unit with less quartz and plagioclase. 223.75-223.93 felsic dyke with some hematite alteration, contacts at 124dca. 229.53-230.18 chlorite and biotite flooding some signs of weak foliation. 230.94-231.16 felsic dyke with hematite and chlorite alteration contacts at 38dca. The lower contact of this dyke is also the contact with the next unit.	Q157908	223.25	224.00	0.75	0.29	0.12	
			Q157909	224.00	225.00	1.00	0.41	0.17	
			Q157911	225.00	226.00	1.00	0.31	0.1	
			Q157910	225.00	226.00	1.00	0.3	0.11	
			Q157912	226.00	227.00	1.00	0.15	0.07	
			Q157913	227.00	228.00	1.00	0.36	0.12	
			Q157914	228.00	229.00	1.00	0.38	0.17	
			Q157916	229.00	229.53	0.53	0.4	0.04	
			Q157917	229.53	230.18	0.65	1.35	0.16	
			Q157918	230.18	231.16	0.98	0.27	0.44	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
231.16	239.94	**GR Granite** Pale pink, black and white, medium to coarse grained. Similar to the above granite with some trace pyrite along fracture plains. Lower contact gradational.	Q157919	231.16	232.00	0.84	0.17	0.09	
			Q157920	232.00	233.00	1.00	0.12	0.11	
			Q157921	233.00	234.00	1.00	0.11	0.13	
			Q157922	234.00	235.00	1.00	0.04	0.08	
			Q157923	235.00	236.00	1.00	0.08	0.09	
			Q157925	236.00	237.00	1.00	0.1	0.11	
			Q157926	237.00	238.00	1.00	0.16	0.1	
			Q157927	238.00	239.00	1.00	0.15	0.08	
			Q157928	239.00	239.94	0.94	0.28	0.14	
239.94	245.92	**SYEN Syenite** Grey pink, fine to medium grained. 241.48-241.52 grey fine grained felsic dyke contacts at 128dca. Lower contact irregular at 30dca.	Q157929	239.94	241.00	1.06	0.09	0.07	
			Q157931	241.00	242.00	1.00	0.11	0.12	
			Q157930	241.00	242.00	1.00	0.12	0.11	
			Q157932	242.00	243.00	1.00	0.11	0.09	
			Q157933	243.00	244.00	1.00	0.07	0.1	
			Q157934	244.00	245.00	1.00	0.16	0.07	
			Q157936	245.00	245.92	0.92	0.23	0.08	
245.92	247.70	**SYENSL Syenite Sill (unmineralized)** Grey green, fine grained strongly chloritic. This unit has moderate to extreme fracturing due to a fault zone. 247.00-247.70 small <5cm pieces of rubble with a small amount of fault gouge.	Q157937	245.92	247.00	1.08	0.17	1	
			Q157938	247.00	247.70	0.70	0.14	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
247.70 -	249.00	**LC Lost Core**							
249.00 -	257.07	**SYENSL Syenite Sill (unmineralized)** Grey green fine to medium grained strongly chloritic rock. There is moderate to extreme fracturing within this unit due to faulting. 249.00-252.00 small <5cm fragments held together by a soft muddy fault gouge. 254.50-255.50 localized small rubble <5cm in size. Lower contact sharp at 106dca.	Q157939	249.00	250.00	1.00	0.17	0.32	
			Q157940	250.00	251.00	1.00	0.16	0.3	
			Q157941	251.00	252.00	1.00	0.24	0.43	
			Q157942	252.00	253.00	1.00	0.19	0.26	
			Q157943	253.00	254.00	1.00	0.21	0.48	
			Q157945	254.00	255.00	1.00	0.18	0.57	
			Q157946	255.00	256.00	1.00	0.06	0.19	
			Q157947	256.00	257.07	1.07	0.05	0.18	
257.07 -	259.18	**FP Feldspar Porphyry** Dark grey chlorite altered rock with small 2-5mm phenocrysts of feldspar. 257.07-257.52 possible felsic brecciated dyke with larger feldspar fragments lower contact tat 221dca. Lower contact of unit broken up.	Q157948	257.07	258.00	0.93	0.07	0.11	
			Q157949	258.00	259.18	1.18	0.07	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
259.18	288.69	**SYENSL Syenite Sill (unmineralized)** Grey to grey/green medium to coarse grained. The entire unit is moderately fractured with localized strong to extreme fracturing. There are areas of localized chlorite alteration. Lower contact at 67dca, although the contact also could be gradational into a more syenitic unit?	Q157951	259.18	260.00	0.82	0.05	0.06	
			Q157950	259.18	260.00	0.82	0.03	0.06	
			Q157952	260.00	261.00	1.00	0.06	0.11	
			Q157953	261.00	262.50	1.50	0.13	0.23	
			Q157954	262.50	264.00	1.50	0.04	0.04	
			Q157956	264.00	265.50	1.50	0.09	0.04	
			Q157957	265.50	267.00	1.50	0.07	0.06	
			Q157958	267.00	268.50	1.50	0.07	0.05	
			Q157959	268.50	270.00	1.50	0.01	0.06	
			Q157960	270.00	271.50	1.50	0.03	0.04	
			Q157961	271.50	273.00	1.50	0.02	0.03	
			Q157962	273.00	274.50	1.50	0.02	0.04	
			Q157963	274.50	276.00	1.50	0.01	0.04	
			Q157965	276.00	277.50	1.50	0.01	0.09	
			Q157966	277.50	279.00	1.50	0.01	0.12	
			Q157967	279.00	280.50	1.50	0.04	0.05	
			Q157968	280.50	282.00	1.50	0.01	0.12	
			Q157969	282.00	283.50	1.50	0.01	0.09	
			Q157970	283.50	285.00	1.50	0.02	0.27	
			Q157971	283.50	285.00	1.50	0.01	0.21	
			Q157972	285.00	286.50	1.50	0.06	0.31	
			Q157973	286.50	288.00	1.50	0.01	0.11	
			Q157974	288.00	288.69	0.69	0.03	0.55	
288.69	290.29	**SYEN Syenite** Pink to grey, medium grained. No graphite overprinting or fracture filling. 289.90-289.95 carbonate filled fractures resembling a breccia. Lower contact gradational.	Q157976	288.69	289.80	1.11	0.04	0.13	
			Q157977	289.80	290.29	0.49	0.07	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
290.29	303.14	**SYENSL Syenite Sill (unmineralized)** Grey to grey/green medium to coarse grained, massive. Some chlorite alteration especially along fracture plains. No conductivity or sign of graphite. EOH 303.14m	Q157978	290.29	291.00	0.71	0.06	0.09	
			Q157979	291.00	292.50	1.50	0.02	0.34	2.65
			Q157980	292.50	294.00	1.50	0.11	0.51	2.98
			Q157981	294.00	295.50	1.50	0.18	0.83	3.01
			Q157982	295.50	297.00	1.50	0.11	0.56	3.04
			Q157983	297.00	298.50	1.50	0.11	0.44	3.09
			Q157985	298.50	300.00	1.50	0.03	0.35	
			Q157986	300.00	301.50	1.50	0.1	0.44	
			Q157987	301.50	303.14	1.64	0.15	0.47	

zenyatta

Drillhole Log

Units **Meters**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	462.00	01/10/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545594	682632.6			Reflex APS		05/10/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	126.00	302.80		-50.00	Chibougamau Diamond Drilling		05/10/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	399	*Casing Pulled*	*Casing (1)*	63.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*		*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited		

Purpose	*Results*	*Comments*
Testing west pipe from the southeast	This drill hole intersected 66.79m of well mineralized graphitic breccia from 119.37m to 186.16m with minor, syenite and dyke intervals. It also intersected 20.85m of weakly graphite overprinted syenite from 282.33m to 303.18m, intruded by a 6.35m porphyritic intermediate dyke. A second mineralized graphitic breccia section was intersected from 333.3 to 345.46 for 12.16m, followed by 7.14m of weakly graphite overprinted syenite. From 89.60m to 211.10m, the assays from this intersection averaged 1.64% Cg over 121.50m; within this intersection a higher grade graphite zone from 119.37m to 168.20m averaged 3.52% Cg over 48.83m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
63.00			312	303	-51	-51	☑	Reflex EZ	56897	
66.00			312.1	303.1	-50.3	-50.3	☑	Reflex EZ	56469	
69.00			312.3	303.3	-50.3	-50.3	☑	Reflex EZ	56406	
72.00			311.3	302.3	-51.1	-51.1	☑	Reflex EZ	56458	
75.00			311.4	302.4	-50.7	-50.7	☑	Reflex EZ	56383	
78.00			311.7	302.7	-50.8	-50.8	☑	Reflex EZ	56392	
81.00			311.3	302.3	-51.1	-51.1	☑	Reflex EZ	56446	
84.00			311.6	302.6	-51	-51	☑	Reflex EZ	56397	
87.00			311.3	302.3	-51.1	-51.1	☑	Reflex EZ	56402	
90.00			311.6	302.6	-50.6	-50.6	☑	Reflex EZ	56365	
93.00			311.3	302.3	-50.7	-50.7	☑	Reflex EZ	56366	
96.00			311.3	302.3	-50.9	-50.9	☑	Reflex EZ	56397	
99.00			311.6	302.6	-51	-51	☑	Reflex EZ	56343	
102.00			311.9	302.9	-50.4	-50.4	☑	Reflex EZ	56329	
105.00			311.7	302.7	-50.5	-50.5	☑	Reflex EZ	56327	
108.00			311.5	302.5	-51	-51	☑	Reflex EZ	56383	
111.00			311.2	302.2	-50.9	-50.9	☑	Reflex EZ	56391	
114.00			311.3	302.3	-51	-51	☑	Reflex EZ	56433	
117.00			311.5	302.5	-50.8	-50.8	☑	Reflex EZ	56371	
120.00			311.7	302.7	-50.9	-50.9	☑	Reflex EZ	56378	
123.00			311.4	302.4	-50.8	-50.8	☑	Reflex EZ	56353	
126.00			311.5	302.5	-50.8	-50.8	☑	Reflex EZ	56360	
129.00			311.5	302.5	-51	-51	☑	Reflex EZ	56395	
132.00			312.3	303.3	-50.5	-50.5	☑	Reflex EZ	56309	
135.00			311.5	302.5	-50.6	-50.6	☑	Reflex EZ	56327	
138.00			311.4	302.4	-51	-51	☑	Reflex EZ	56341	
141.00			311.4	302.4	-50.8	-50.8	☑	Reflex EZ	56360	
144.00			311.7	302.7	-51.1	-51.1	☑	Reflex EZ	56362	
147.00			311.7	302.7	-50.6	-50.6	☑	Reflex EZ	56313	
150.00			311.6	302.6	-50.7	-50.7	☑	Reflex EZ	56343	
153.00			312.3	303.3	-50.2	-50.2	☑	Reflex EZ	56289	
156.00			311.9	302.9	-50.3	-50.3	☑	Reflex EZ	56302	
159.00			311.8	302.8	-50.7	-50.7	☑	Reflex EZ	56325	
162.00			311.7	302.7	-50.6	-50.6	☑	Reflex EZ	56352	
165.00			312	303	-50.8	-50.8	☑	Reflex EZ	56372	
168.00			312.5	303.5	-50.6	-50.6	☑	Reflex EZ	56116	
171.00			311.4	302.4	-50.6	-50.6	☑	Reflex EZ	56204	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
174.00			312.6	303.6	-50.3	-50.3	☑	Reflex EZ	56395	
177.00			311.5	302.5	-50.7	-50.7	☑	Reflex EZ	56318	
180.00			312.1	303.1	-50.3	-50.3	☑	Reflex EZ	56444	
183.00			311.7	302.7	-50.4	-50.4	☑	Reflex EZ	56473	
186.00			312.9	303.9	-50.1	-50.1	☑	Reflex EZ	56350	
189.00			312.4	303.4	-49.9	-49.9	☑	Reflex EZ	56395	
192.00			311.6	302.6	-50.7	-50.7	☑	Reflex EZ	56454	
195.00			312.1	303.1	-50.1	-50.1	☑	Reflex EZ	55979	
198.00			310.9	301.9	-50.6	-50.6	☑	Reflex EZ	56381	
201.00			312	303	-50	-50	☑	Reflex EZ	56178	
204.00			312.8	303.8	-50	-50	☑	Reflex EZ	56132	
207.00			311.7	302.7	-49.8	-49.8	☑	Reflex EZ	56078	
210.00			311.9	302.9	-50.3	-50.3	☑	Reflex EZ	56347	
213.00			312	303	-50.1	-50.1	☑	Reflex EZ	56446	
216.00			312	303	-50.6	-50.6	☑	Reflex EZ	56206	
219.00			310.2	301.2	-50.1	-50.1	☑	Reflex EZ	56394	
222.00			308.9	299.9	-50.6	-50.6	☑	Reflex EZ	56171	
225.00			310	301	-50	-50	☑	Reflex EZ	55814	
228.00			312.1	303.1	-50.6	-50.6	☑	Reflex EZ	56309	
231.00			312.8	303.8	-50.1	-50.1	☑	Reflex EZ	56195	
234.00			312.8	303.8	-49.9	-49.9	☑	Reflex EZ	56258	
237.00			311.3	302.3	-50.6	-50.6	☑	Reflex EZ	56388	
240.00			312.9	303.9	-50.2	-50.2	☑	Reflex EZ	56325	
243.00			312.8	303.8	-50.3	-50.3	☑	Reflex EZ	56364	
246.00			312.9	303.9	-49.9	-49.9	☑	Reflex EZ	56282	
249.00			312.5	303.5	-50.2	-50.2	☑	Reflex EZ	56311	
252.00			312.3	303.3	-50.2	-50.2	☑	Reflex EZ	56347	
255.00			312.3	303.3	-50.5	-50.5	☑	Reflex EZ	56308	
258.00			313.1	304.1	-49.9	-49.9	☑	Reflex EZ	56243	
261.00			313.4	304.4	-50.3	-50.3	☑	Reflex EZ	56380	
264.00			313.1	304.1	-50	-50	☑	Reflex EZ	56217	
267.00			312.4	303.4	-50.4	-50.4	☑	Reflex EZ	56337	
270.00			313	304	-49.9	-49.9	☑	Reflex EZ	56213	
273.00			312.4	303.4	-50.6	-50.6	☑	Reflex EZ	56571	
276.00			312.6	303.6	-50.3	-50.3	☑	Reflex EZ	56381	
279.00			311.9	302.9	-50.1	-50.1	☑	Reflex EZ	56270	
282.00			312.6	303.6	-50.6	-50.6	☑	Reflex EZ	56542	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
285.00			312.1	303.1	-50.6	-50.6	☑	Reflex EZ	56532	
288.00			312.7	303.7	-50.5	-50.5	☑	Reflex EZ	56660	
291.00			312.9	303.9	-50.2	-50.2	☑	Reflex EZ	56453	
294.00			313	304	-50.3	-50.3	☑	Reflex EZ	56126	
297.00			312.6	303.6	-50.5	-50.5	☑	Reflex EZ	56486	
300.00			312.6	303.6	-50.2	-50.2	☑	Reflex EZ	56374	
303.00			312.9	303.9	-49.8	-49.8	☑	Reflex EZ	56430	
306.00			312	303	-50.3	-50.3	☑	Reflex EZ	56249	
309.00			311.9	302.9	-50	-50	☑	Reflex EZ	56099	
312.00			313	304	-49.8	-49.8	☑	Reflex EZ	56222	
315.00			312.5	303.5	-50.4	-50.4	☑	Reflex EZ	56125	
318.00			312.8	303.8	-50	-50	☑	Reflex EZ	56062	
321.00			312	303	-49.8	-49.8	☑	Reflex EZ	56250	
324.00			313.5	304.5	-49.7	-49.7	☑	Reflex EZ	56235	
327.00			313.3	304.3	-50	-50	☑	Reflex EZ	56369	
330.00			313.4	304.4	-49.9	-49.9	☑	Reflex EZ	56369	
333.00			313	304	-49.8	-49.8	☑	Reflex EZ	56317	
336.00			312.8	303.8	-49.9	-49.9	☑	Reflex EZ	56353	
339.00			312.8	303.8	-50.5	-50.5	☑	Reflex EZ	56442	
342.00			312.7	303.7	-50.4	-50.4	☑	Reflex EZ	56432	
345.00			313.1	304.1	-50.1	-50.1	☑	Reflex EZ	56405	
348.00			313	304	-50.4	-50.4	☑	Reflex EZ	56431	
351.00			314	305	-49.6	-49.6	☑	Reflex EZ	56303	
354.00			312.8	303.8	-50	-50	☑	Reflex EZ	56190	
357.00			313	304	-50.1	-50.1	☑	Reflex EZ	56341	
360.00			313	304	-50	-50	☑	Reflex EZ	56238	
363.00			313.3	304.3	-49.7	-49.7	☑	Reflex EZ	56217	
366.00			313.5	304.5	-50.1	-50.1	☑	Reflex EZ	56442	
369.00			313.4	304.4	-50.4	-50.4	☑	Reflex EZ	56218	
372.00			313.8	304.8	-50.2	-50.2	☑	Reflex EZ	56322	
375.00			313.9	304.9	-49.6	-49.6	☑	Reflex EZ	56122	
378.00			313.3	304.3	-50.3	-50.3	☑	Reflex EZ	56342	
381.00			314.1	305.1	-50.3	-50.3	☑	Reflex EZ	56499	
384.00			313	304	-50	-50	☑	Reflex EZ	56146	
387.00			312.8	303.8	-49.7	-49.7	☑	Reflex EZ	56330	
390.00			313.5	304.5	-49.7	-49.7	☑	Reflex EZ	55900	
393.00			312.9	303.9	-50	-50	☑	Reflex EZ	55927	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
396.00			313.6	304.6	-49.6	-49.6	☑	Reflex EZ	56091	
399.00			312	303	-50.2	-50.2	☑	Reflex EZ	56254	
402.00			313.7	304.7	-49.7	-49.7	☑	Reflex EZ	56265	
405.00			312.7	303.7	-50.2	-50.2	☑	Reflex EZ	56132	
408.00			313.3	304.3	-50.1	-50.1	☑	Reflex EZ	56280	
411.00			313.5	304.5	-49.9	-49.9	☑	Reflex EZ	56188	
414.00			313.2	304.2	-50.6	-50.6	☑	Reflex EZ	56532	
417.00			314.5	305.5	-50	-50	☑	Reflex EZ	56468	
420.00			313.7	304.7	-50	-50	☑	Reflex EZ	56436	
423.00			313.3	304.3	-50.5	-50.5	☑	Reflex EZ	56497	
426.00			313.7	304.7	-50	-50	☑	Reflex EZ	56368	
429.00			313.4	304.4	-50.6	-50.6	☑	Reflex EZ	56485	
432.00			313.4	304.4	-50.8	-50.8	☑	Reflex EZ	56494	
435.00			313.4	304.4	-50.8	-50.8	☑	Reflex EZ	56449	
438.00			313.6	304.6	-50.8	-50.8	☑	Reflex EZ	56461	
441.00			313.5	304.5	-50.6	-50.6	☑	Reflex EZ	56272	
444.00			312.5	303.5	-50.4	-50.4	☑	Reflex EZ	55184	
447.00			313	304	-51.2	-51.2	☑	Reflex EZ	56400	
453.00			314.2	305.2	-50.7	-50.7	☑	Reflex EZ	56675	
459.00			314.1	305.1	-50.8	-50.8	☑	Reflex EZ	56500	
462.00			314.1	305.1	-50.8	-50.8	☑	Reflex EZ	56493	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	60.90	**OB Overburden** From 0 to 60 unknown overburden. From 60 to 60.9 boulders of sediments and syenite.							
60.90	85.87	**SYEN Syenite** Medium to grey to pink, medium to coarse grained massive syenite. Very weak graphite overprinting as isolated graphite veinlets at 83m.	N550521	60.90	61.65	0.75	0.44	0.03	
			N550522	61.65	62.70	1.05	0.21	0.03	
			N550523	62.70	63.80	1.10	0.21	0.02	
			N550525	63.80	65.00	1.20	0.3	0.01	
			N550526	65.00	65.70	0.70	0.42	0.02	
			N550527	65.70	66.90	1.20	0.29	0.04	
			N550528	66.90	68.00	1.10	0.25	0.07	
			N550529	68.00	69.00	1.00	0.02	0.04	
			N550530	69.00	70.00	1.00	0.01	0.05	
			N550532	70.00	71.00	1.00	0.2	0.07	
			N550533	71.00	72.00	1.00	0.15	0.06	
			N550534	72.00	73.00	1.00	0.07	0.06	
			N550536	73.00	74.00	1.00	0.09	0.04	
			N550537	74.00	75.00	1.00	0.11	0.09	
			N550538	75.00	76.00	1.00	0.08	0.1	
			N550539	76.00	77.00	1.00	0.02	0.05	
			N550540	77.00	78.00	1.00	0.06	0.03	
			N550541	78.00	79.00	1.00	0.07	0.06	
			N550542	79.00	80.00	1.00	0.01	0.02	
			N550543	80.00	81.00	1.00	0.08	0.03	
			N550545	81.00	82.00	1.00	0.08	0.02	
			N550546	82.00	83.00	1.00	0.05	0.08	
			N550547	83.00	84.00	1.00	0.06	0.03	
			N550548	84.00	85.00	1.00	0.05	0.04	
			N550549	85.00	85.87	0.87	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
85.87	88.58	**GRDR Granodiorite** Light grey to pinkish-grey, fine to medium grained salt and pepper texture, granodiorite dyke. Upper contact sharp at 70 dca. Lower contact sharp at 90 dca.	N550550	85.87	86.80	0.93	0.01	0.02	
			N550552	86.80	87.70	0.90	0.05	0.03	
			N550553	87.70	88.58	0.88	0.06	0.01	
88.58	109.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-pink , medium to locally coarse grained massive syenite. Weak to locally moderate graphite overprinting as hairline fracture filling graphite veinlets at 90.8m , from 98 to 99m and from 104 to 109m.	N550554	88.58	89.60	1.02	0.11	0.09	
			N550556	89.60	90.70	1.10	0.26	0.1	
			N550557	90.70	91.80	1.10	0.43	0.04	
			N550558	91.80	92.90	1.10	0.05	0.09	
			N550559	92.90	94.00	1.10	0.19	0.06	
			N550560	94.00	95.00	1.00	0.13	0.06	
			N550561	95.00	96.00	1.00	0.31	0.08	
			N550562	96.00	97.00	1.00	0.19	0.09	
			N550563	97.00	98.00	1.00	0.28	0.03	
			N550565	98.00	99.00	1.00	0.84	0.06	
			N550566	99.00	100.00	1.00	0.17	0.08	
			N550567	100.00	101.00	1.00	0.06	0.09	
			N550568	101.00	102.00	1.00	0.08	0.06	
			N550569	102.00	103.00	1.00	0.2	0.06	
			N550570	103.00	104.00	1.00	0.17	0.04	
			N550572	104.00	105.00	1.00	0.34	0.06	
			N550573	105.00	106.00	1.00	0.57	0.07	
			N550574	106.00	107.00	1.00	0.22	0.13	
			N550576	107.00	108.00	1.00	1.98	0.11	
			N550577	108.00	109.00	1.00	1.14	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
109.00	119.37	**SYEN Syenite** Pinkish-grey, medium to coarse grained, massive syenite. No visible graphite.	N550578	109.00	110.00	1.00	0.07	0.08	
			N550579	110.00	111.00	1.00	0.09	0.06	
			N550580	111.00	112.00	1.00	0.06	0.06	
			N550581	112.00	113.00	1.00	0.06	0.03	
			N550582	113.00	114.00	1.00	0.09	0.03	
			N550583	114.00	115.00	1.00	0.04	0.07	
			N550585	115.00	116.00	1.00	0.54	0.03	
			N550586	116.00	117.00	1.00	0.18	0.13	
			N550587	117.00	118.00	1.00	0.23	0.18	
			N550588	118.00	119.37	1.37	0.59	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
119.37 -	140.22	**GRPBX Graphitic Breccia** Medium grey, medium grained brecciated syenite with graphite flooding in the matrix. Very good graphite content. Angular syenite fragments 0.1 -1m in size.	N550589	119.37	120.30	0.93	5.83	0.11	
			N550590	120.30	121.20	0.90	4.73	0.11	
			N550592	121.20	122.10	0.90	1.38	0.2	
			N550593	122.10	123.00	0.90	1.6	0.17	
			N550594	123.00	124.00	1.00	1.79	0.19	
			N550596	124.00	125.00	1.00	6.08	0.1	
			N550597	125.00	126.00	1.00	1.65	0.18	2.61
			N550598	126.00	127.00	1.00	0.5	0.1	2.61
			N550599	127.00	128.00	1.00	8.93	0.18	2.55
			N550600	128.00	129.00	1.00	4.59	0.21	2.61
			N550601	129.00	130.00	1.00	9	0.13	2.56
			N550602	130.00	131.00	1.00	9.51	0.11	
			N550603	131.00	132.00	1.00	9.28	0.15	
			N550605	132.00	133.00	1.00	6.87	0.15	
			N550606	133.00	134.00	1.00	6.01	0.1	
			N550607	134.00	134.76	0.76	0.8	0.19	
			N550608	134.76	135.86	1.10	1.16	0.02	
			N550609	135.86	137.00	1.14	2.39	0.05	
			N550610	137.00	138.00	1.00	0.24	0.13	
			N550612	138.00	139.10	1.10	0.12	0.04	
			N550613	139.10	140.22	1.12	0.95	0.47	
140.22 -	144.60	**SYEN Syenite** Pinkish-grey, medium grained massive syenite. No visible graphite. Blocky core from 144.4 to 144.6m. Broken core at lower contact.	N550614	140.22	141.15	0.93	0.18	0.03	
			N550616	141.15	142.30	1.15	0.16	0.09	
			N550617	142.30	143.50	1.20	0.3	0.19	
			N550618	143.50	144.60	1.10	0.31	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
144.60	169.30	**GRPBX Graphitic Breccia** Medium grey to reddish-grey brecciated syenite. Dark grey to black fine grained graphite flooding in the matrix. Good graphite content. Well mineralized from upper contact to 147.7 from 150.8 to 153.4m and from 155.6 to 160.1m. Very well mineralized from 162.2 to 168.3m.	N550619	144.60	145.80	1.20	3.7	0.16	
			N550620	145.80	146.90	1.10	4.01	0.27	
			N550621	146.90	148.00	1.10	2.92	0.18	
			N550622	148.00	149.00	1.00	0.25	0.06	
			N550623	149.00	150.00	1.00	0.13	0.03	
			N550625	150.00	151.00	1.00	0.96	0.19	
			N550626	151.00	152.00	1.00	5.88	0.24	
			N550627	152.00	153.00	1.00	5.73	0.21	
			N550628	153.00	154.00	1.00	0.86	0.06	
			N550629	154.00	155.00	1.00	0.13	0.15	
			N550630	155.00	156.00	1.00	1.98	0.18	
			N550632	156.00	157.00	1.00	8.01	0.36	
			N550633	157.00	158.00	1.00	5.48	0.23	
			N550634	158.00	159.00	1.00	0.79	0.26	
			N550636	159.00	160.00	1.00	4.34	0.4	
			N550637	160.00	161.00	1.00	2.39	0.29	
			N550638	161.00	162.00	1.00	0.51	0.35	
			N550639	162.00	163.00	1.00	2.76	0.33	
			N550640	163.00	164.00	1.00	9.33	0.3	
			N550641	164.00	165.00	1.00	10.05	0.21	
			N550642	165.00	166.00	1.00	4.89	0.28	
			N550643	166.00	167.10	1.10	4.86	0.29	
			N550645	167.10	168.20	1.10	5.64	0.29	
			N550646	168.20	169.30	1.10	0.62	0.28	
169.30	173.15	**IDP Intermediate Dike (Porphyritic)** Greenish-grey with a pink hue, porphyritic, medium grained, intermediate dyke. No visible graphite. Upper contact sharp at 20 dca. Lower contact sharp at 60 dca.	N550647	169.30	170.20	0.90	0.08	0.2	
			N550648	170.20	171.20	1.00	0.11	0.17	
			N550649	171.20	172.20	1.00	0.08	0.22	
			N550650	172.20	173.15	0.95	0.09	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
173.15	186.16	**GRPBX Graphitic Breccia** Light grey to pinkish-grey, medium grained brecciated syenite. Weak graphite content as fracture filling graphite veinlets and minor graphite flooding in the matrix of a light grey colour. This unit is somewhere in-between a graphitic breccia and a felsic breccia. Blocky core from 183.6 to 185.7m.	N550652	173.15	174.10	0.95	0.2	0.23	
			N550653	174.10	175.00	0.90	0.78	0.35	
			N550654	175.00	176.00	1.00	1.03	0.4	
			N550656	176.00	177.00	1.00	0.43	0.24	
			N550657	177.00	178.00	1.00	0.64	0.22	
			N550658	178.00	179.00	1.00	0.5	0.26	
			N550659	179.00	180.00	1.00	0.18	0.12	
			N550660	180.00	181.00	1.00	0.22	0.19	
			N550661	181.00	182.00	1.00	0.69	0.43	
			N550662	182.00	183.00	1.00	0.88	0.27	
			N550663	183.00	184.00	1.00	0.38	0.15	
			N550665	184.00	185.00	1.00	0.41	0.17	
			N550666	185.00	186.16	1.16	0.24	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
186.16	208.40	**FBX Felsic Breccia** Similar to the previous unit but not conductive and no visible graphite. Brecciates syenite with coarse pink angular fragments in light to medium grey, fine grained, not conductive matrix.	N550667	186.16	187.10	0.94	0.43	0.21	
			N550668	187.10	188.00	0.90	0.21	0.26	
			N550669	188.00	189.00	1.00	0.01	0.24	
			N550670	189.00	190.00	1.00	0.15	0.41	
			N550672	190.00	191.00	1.00	0.26	0.32	
			N550673	191.00	192.00	1.00	0.29	0.27	
			N550674	192.00	193.00	1.00	0.16	0.17	
			N550676	193.00	194.00	1.00	0.16	0.13	
			N550677	194.00	195.00	1.00	0.06	0.17	
			N550678	195.00	196.00	1.00	0.11	0.15	
			N550679	196.00	197.00	1.00	0.27	0.21	
			N550680	197.00	198.00	1.00	0.72	0.16	
			N550681	198.00	199.00	1.00	0.48	0.18	
			N550682	199.00	200.00	1.00	0.56	0.25	
			N550683	200.00	201.00	1.00	0.28	0.15	
			N550685	201.00	202.00	1.00	0.12	0.12	
			N550686	202.00	203.00	1.00	0.35	0.14	
			N550687	203.00	204.00	1.00	0.34	0.19	
			N550688	204.00	205.00	1.00	0.33	0.72	
			N550689	205.00	205.90	0.90	0.26	0.17	
			N550690	205.90	206.80	0.90	0.13	0.14	
			N550692	206.80	207.60	0.80	1.17	0.22	
			N550693	207.60	208.40	0.80	1.53	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
208.40	228.75	**IDP Intermediate Dike (Porphyritic)** Greenish-grey with a pink hue, porphyritic, medium grained, intermediate dyke. No visible graphite. Upper contact sharp at 20 dca. From 209.08 to 209.97m, medium to dark grey very fine grained felsic breccia; not conductive. Both contacts sharp at 40 dca.	N550694	208.40	209.30	0.90	0.48	0.12	
			N550696	209.30	210.20	0.90	1.83	0.26	
			N550697	210.20	211.10	0.90	0.53	0.12	
			N550698	211.10	212.00	0.90	0.08	0.05	
			N550699	212.00	213.00	1.00	0.03	0.05	
			N550700	213.00	214.50	1.50	0.06	0.05	
			N550701	214.50	216.00	1.50	0.06	0.04	
			N550702	216.00	217.50	1.50	0.08	0.03	
			N550703	217.50	219.00	1.50	0.13	0.03	
			N550705	219.00	220.50	1.50	0.13	0.05	
			N550706	220.50	222.00	1.50	0.14	0.06	
			N550707	222.00	223.50	1.50	0.17	0.09	
			N550708	223.50	225.00	1.50	0.09	0.05	
			N550709	225.00	226.50	1.50	0.07	0.06	
			N550710	226.50	227.75	1.25	0.11	0.05	
			N550712	227.75	228.75	1.00	0.05	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
228.75	252.70	**FBX Felsic Breccia** Light to medium grey, brecciated syenite. Coarse grained, not conductive except for a small graphite bleb at 229.2m. Upper contact sharp but irregular. Blocky core from 236.4 to 237.3m. Minor carbonate veinlets at 237.3. Lower contact sharp at 85 dca.	N550713	228.75	229.75	1.00	0.26	0.19	
			N550714	229.75	230.73	0.98	0.14	0.18	
			N550716	230.73	231.50	0.77	0.08	0.2	
			N550717	231.50	233.00	1.50	0.17	0.25	
			N550718	233.00	234.00	1.00	0.07	0.2	
			N550719	234.00	235.00	1.00	0.02	0.21	
			N550720	235.00	236.00	1.00	0.05	0.19	
			N550721	236.00	237.00	1.00	0.01	0.2	
			N550722	237.00	238.00	1.00	0.02	0.12	
			N550723	238.00	239.00	1.00	0.03	0.19	
			N550725	239.00	240.00	1.00	0.05	0.11	
			N550726	240.00	241.00	1.00	0.04	0.15	
			N550727	241.00	242.00	1.00	0.04	0.14	
			N550728	242.00	243.00	1.00	0.02	0.17	
			N550729	243.00	244.00	1.00	0.01	0.16	
			N550730	244.00	245.00	1.00	0.07	0.09	
			N550732	245.00	246.00	1.00	0.03	0.16	
			N550733	246.00	247.00	1.00	0.08	0.19	
			N550734	247.00	248.00	1.00	0.09	0.14	
			N550736	248.00	249.00	1.00	0.06	0.16	
			N550737	249.00	250.00	1.00	0.11	0.15	
			N550738	250.00	251.00	1.00	0.07	0.16	
			N550739	251.00	251.90	0.90	0.06	0.21	
			N550740	251.90	252.70	0.80	0.15	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
252.70	261.08	**FBX Felsic Breccia** Dark grey to almost black felsic breccia. Very fine grained matrix with fine 1-4mm subangular fragments. Not conductive. Few large 5cm syenite fragments near the lower contact. Lower contact at 90 dca.	N550741	252.70	253.80	1.10	1.57	0.27	
			N550742	253.80	254.90	1.10	2.48	0.32	
			N550743	254.90	256.00	1.10	2.65	0.31	
			N550745	256.00	257.00	1.00	2.83	0.32	2.65
			N550746	257.00	258.00	1.00	2.76	0.3	2.64
			N550747	258.00	259.00	1.00	2.82	0.43	2.64
			N550748	259.00	260.00	1.00	3.16	0.35	2.64
			N550749	260.00	261.08	1.08	2.38	0.34	2.64
261.08	271.64	**FBX Felsic Breccia** Brecciated syenite. Large angular syenite fragments 5-100cm in medium to dark grey, fine grained matrix. Not conductive. Lower contact sharp at 85 dca.	N550750	261.08	262.00	0.92	0.14	0.22	
			N550752	262.00	263.00	1.00	0.02	0.17	
			N550753	263.00	264.00	1.00	0.05	0.16	
			N550754	264.00	265.00	1.00	0.08	0.1	
			N550756	265.00	266.00	1.00	0.09	0.09	
			N550757	266.00	267.00	1.00	0.07	0.12	
			N550758	267.00	268.00	1.00	0.07	0.16	
			N550759	268.00	269.00	1.00	0.14	0.17	
			N550760	269.00	269.90	0.90	0.24	0.05	
			N550761	269.90	270.80	0.90	0.04	0.04	
			N550762	270.80	271.64	0.84	0.26	0.11	
271.64	276.93	**ID Intermediate Dyke** Medium grey, fine grained ,massive intermediate dyke. Few coarse gabbroic fragments/dykelets 10-20cm and one 15cm porphyritic intermediate dyke at 274.8. Lower contact sharp at 70 dca.	N550763	271.64	272.70	1.06	0.01	0.02	
			N550765	272.70	273.80	1.10	0.01	0.03	
			N550766	273.80	274.90	1.10	0.01	0.03	
			N550767	274.90	275.90	1.00	0.01	0.01	
			N550768	275.90	276.93	1.03	0.01	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
276.93	280.02	**SYEN Syenite** Pinkish-red to light grey, coarse massive syenite. No visible graphite. Lower contact sharp at 50 dca.	N550769	276.93	278.00	1.07	0.01	0.09	
			N550770	278.00	279.00	1.00	0.02	0.04	
			N550772	279.00	280.02	1.02	0.03	0.03	
280.02	282.33	**IDP Intermediate Dike (Porphyritic)** Medium grey to brownish-grey, porphyritic intermediate dyke. No visible graphite. Lowe contact sharp at 65 dca.	N550773	280.02	281.15	1.13	0.01	0.06	
			N550774	281.15	282.33	1.18	0.02	0.05	
282.33	286.45	**SYENOP Syenite with Graphitic Overprinting** Light grey to pinkish-grey, coarse syenite. Weak graphite overprinting as fracture filling graphite veinlets and minor brecciation near the lower contact. Lower contact sharp at 55 dca.	N550776	282.33	283.40	1.07	0.25	0.13	
			N550777	283.40	284.40	1.00	0.14	0.23	
			N550778	284.40	285.40	1.00	0.12	0.13	
			N550779	285.40	286.45	1.05	0.17	0.1	
286.45	292.80	**IDP Intermediate Dike (Porphyritic)** Brownish-grey, porphyritic intermediate dyke. Odd subrounded syenite fragment 3-5cm in size and one 20cm felsic dyke at 289.5. No visible graphite. Lower contact at 90 dca.	N550780	286.45	287.50	1.05	0.06	0.07	
			N550781	287.50	289.00	1.50	0.05	0.07	
			N550782	289.00	290.50	1.50	0.04	0.09	
			N550783	290.50	291.80	1.30	0.01	0.08	
			N550785	291.80	292.80	1.00	0.03	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
292.80	303.18	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey. Medium to coarse grained syenite. Weak graphite overprinting as fracture filling graphite veinlets from 297.4 to 300m. 30cm mafic dyke from 301.3 to 301.6m.	N550786	292.80	293.90	1.10	0.13	0.16	
			N550787	293.90	295.00	1.10	0.14	0.14	
			N550788	295.00	296.00	1.00	0.15	0.31	
			N550789	296.00	297.00	1.00	0.32	0.16	
			N550790	297.00	298.00	1.00	0.18	0.24	
			N550792	298.00	299.00	1.00	0.54	0.38	
			N550793	299.00	300.00	1.00	1.29	0.3	
			N550794	300.00	301.00	1.00	0.33	0.2	
			N550796	301.00	302.10	1.10	0.31	0.67	
			N550797	302.10	303.18	1.08	0.09	0.26	
303.18	303.85	**SYENSL Syenite Sill (unmineralized)** Light grey, massive coarse grained, hard, intrusive unit. Lower contact sharp at 65 dca.	N550798	303.18	303.85	0.67	0.02	0.03	
303.85	306.84	**FD Felsic Dyke** Medium grey with a light pink hue, massive fine to medium grained in the centre with a granophyric texture and fine grained chilled margins ~50cm on each side. From 303.85 to 304.43m Porphyritic Intermediate Dyke with fracture filling coarse gabbroic injections. Lower contact of the dyke sharp at 30 dca.	N550799	303.85	304.85	1.00	0.01	0.04	
			N550800	304.85	305.85	1.00	0.01	0.02	
			N550801	305.85	306.84	0.99	0.01	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
306.84	327.15	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained massive intrusive. Fairly uniform and featureless. No visible graphite. Blocky core from 323.8 to 325.8m; moderate fracturing with minor carbonate veinlets and some fractures subparallel to ca. Lower contact sharp at 80 dca.	N550802	306.84	308.00	1.16	0.01	0.02	
			N550803	308.00	309.50	1.50	0.01	0.04	
			N550805	309.50	311.00	1.50	0.01	0.02	
			N550806	311.00	312.50	1.50	0.01	0.03	
			N550807	312.50	314.00	1.50	0.01	0.03	
			N550808	314.00	315.50	1.50	0.01	0.04	
			N550809	315.50	317.00	1.50	0.01	0.02	
			N550810	317.00	318.50	1.50	0.01	0.03	
			N550812	318.50	320.00	1.50	0.01	0.05	
			N550813	320.00	321.50	1.50	0.01	0.06	
			N550814	321.50	323.00	1.50	0.01	0.05	
			N550816	323.00	324.50	1.50	0.03	0.05	
			N550817	324.50	326.00	1.50	0.08	0.2	
			N550818	326.00	327.15	1.15	0.01	0.06	
327.15	332.70	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey, medium grained, massive syenite. Weak graphite overprinting as fracture filling veinlets at the upper contact and from 331 to 332m. From 330.3 to 330.8m strong fracturing 10-15cm fault gouge at 330.7m. Lower contact sharp at 90 dca.	N550819	327.15	328.20	1.05	0.5	0.12	
			N550820	328.20	329.30	1.10	0.02	0.08	
			N550821	329.30	330.40	1.10	0.03	0.07	
			N550822	330.40	331.50	1.10	2.25	0.06	
			N550823	331.50	332.70	1.20	0.57	0.09	
332.70	333.30	**IDP Intermediate Dike (Porphyritic)** Medium grey to brownish-grey, porphyritic intermediate dyke. No visible graphite. Lower contact sharp but irregular at 40 dca.	N550825	332.70	333.30	0.60	0.03	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
333.30 -	345.46	**GRPBX Graphitic Breccia** Medium grey to pinkish-grey fractured and brecciated syenite. Fracture filling graphite and locally fine grained graphite flooding in the matrix. Blocky core, moderate fracturing from 341.6 to 342.5m; minor carbonate veining at 341.6m. Moderate fracturing from 344 to 344.7. Lower contact sharp at 60 dca.	N550826	333.30	334.20	0.90	0.73	0.06	2.61
			N550827	334.20	335.10	0.90	0.27	0.16	2.61
			N550828	335.10	336.00	0.90	2.62	0.14	2.63
			N550829	336.00	337.00	1.00	1.2	0.17	2.61
			N550830	337.00	338.00	1.00	0.42	0.12	2.62
			N550832	338.00	339.00	1.00	0.58	0.13	
			N550833	339.00	340.00	1.00	0.62	0.18	
			N550834	340.00	341.00	1.00	2.89	0.17	
			N550836	341.00	342.00	1.00	2.04	0.13	
			N550837	342.00	342.90	0.90	2.92	0.11	
			N550838	342.90	343.80	0.90	0.8	0.07	
			N550839	343.80	344.70	0.90	4.75	0.17	
			N550840	344.70	345.46	0.76	4.9	0.07	
345.46 -	352.60	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey, medium grained syenite. Very weak graphite overprinting as isolated fracture filling graphite veinlets. Blocky core from 348.25 to 350.2m. Lower contact sharp at 65 dca.	N550841	345.46	346.50	1.04	0.74	0.07	
			N550842	346.50	347.50	1.00	0.23	0.1	
			N550843	347.50	348.50	1.00	0.08	0.08	
			N550845	348.50	349.50	1.00	0.11	0.08	
			N550846	349.50	350.50	1.00	0.03	0.09	
			N550847	350.50	351.50	1.00	0.18	0.07	
			N550848	351.50	352.60	1.10	0.65	0.08	
352.60 -	354.15	**GRDR Granodiorite** Medium grey to pinkish-grey, medium grained, massive granodiorite. Salt and pepper texture. No visible graphite. Lower contact sharp at 25 dca.	N550849	352.60	354.15	1.55	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
354.15	367.57	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform. No visible graphite.	N550850	354.15	355.50	1.35	0.02	0.04	
			N550852	355.50	357.00	1.50	0.01	0.06	
			N550853	357.00	358.50	1.50	0.01	0.04	
			N550854	358.50	360.00	1.50	0.03	0.03	
			N550856	360.00	361.50	1.50	0.01	0.02	
			N550857	361.50	363.00	1.50	0.01	0.02	
			N550858	363.00	364.50	1.50	0.01	0.04	
			N550859	364.50	366.05	1.55	0.01	0.03	
			N550860	366.05	367.57	1.52	0.01	0.04	
367.57	369.57	**ID Intermediate Dyke** Light to medium grey, fine grained massive intermediate to felsic dyke. Both contacts sharp at 70 dca. No visible graphite.	N550861	367.57	368.57	1.00	0.06	0.02	
			N550862	368.57	369.57	1.00	0.05	0.07	
369.57	377.35	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform. No visible graphite.	N550863	369.57	371.00	1.43	0.02	0.04	
			N550865	371.00	372.50	1.50	0.09	0.03	
			N550866	372.50	374.00	1.50	0.08	0.03	
			N550867	374.00	375.50	1.50	0.04	0.02	
			N550868	375.50	376.40	0.90	0.01	0.03	
			N550869	376.40	377.35	0.95	0.06	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
377.35	379.13	**MD Mafic Dyke** Dark brown, porphyritic, mafic dyke. Light grey to almost white subhedral feldspar phenocrysts 1-4mm in a fine grained brownish matrix. Upper contact sharp at 45 dca. Broken core with minor fault gouge from 377.5 to 377.65m. Lower contact sharp at 75 dca. No visible graphite.	N550870	377.35	378.25	0.90	0.04	0.15	
			N550872	378.25	379.13	0.88	0.09	0.17	
379.13	416.70	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium grained, massive intrusive. Fairly uniform. No visible graphite. Lower contact sharp at 65 dca.	N550873	379.13	380.10	0.97	0.01	0.06	
			N550874	380.10	381.00	0.90	0.05	0.03	
			N550876	381.00	382.50	1.50	0.01	0.02	
			N550877	382.50	384.00	1.50	0.02	0.01	
			N550878	384.00	385.50	1.50	0.04	0.02	
			N550879	385.50	387.00	1.50	0.02	0.01	
			N550880	387.00	388.50	1.50	0.02	0.02	
			N550881	388.50	390.00	1.50	0.01	0.04	
			N550882	390.00	391.50	1.50	0.02	0.01	
			N550883	391.50	393.00	1.50	0.01	0.02	
			N550885	393.00	394.50	1.50	0.02	0.02	
			N550886	394.50	396.00	1.50	0.01	0.02	
			N550887	396.00	397.50	1.50	0.02	0.02	
			N550888	397.50	399.00	1.50	0.01	0.03	
			N550889	399.00	400.50	1.50	0.01	0.04	
			N550890	400.50	402.00	1.50	0.03	0.04	
			N550892	402.00	403.50	1.50	0.03	0.05	
			N550893	403.50	405.00	1.50	0.01	0.05	
			N550894	405.00	406.50	1.50	0.03	0.03	
			N550896	406.50	408.00	1.50	0.03	0.03	
			N550897	408.00	409.50	1.50	0.02	0.05	
			N550898	409.50	411.00	1.50	0.02	0.02	
			N550899	411.00	412.50	1.50	0.01	0.05	
			N550900	412.50	414.00	1.50	0.02	0.04	
			N550901	414.00	415.50	1.50	0.05	0.05	
			N550902	415.50	416.70	1.20	0.01	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
416.70	441.07	**SYEN Syenite** Light to medium grey, medium to coarse grained, massive syenite. No visible graphite. Moderate foliation at 30dca. From 432.8 to 441.07m with interstitial fine grained biotite. This section could be a granodiorite (?).	N550903	416.70	418.00	1.30	0.18	0.26	
			N550905	418.00	419.50	1.50	0.3	0.28	
			N550906	419.50	421.00	1.50	0.1	0.16	
			N550907	421.00	422.50	1.50	0.02	0.06	
			N550908	422.50	424.00	1.50	0.07	0.15	
			N550909	424.00	425.50	1.50	0.02	0.16	
			N550910	425.50	427.00	1.50	0.08	0.29	
			N550912	427.00	428.50	1.50	0.06	0.24	
			N550913	428.50	430.00	1.50	0.1	0.28	
			N550914	430.00	431.50	1.50	0.25	0.3	
			N550916	431.50	433.00	1.50	0.2	0.29	
			N550917	433.00	434.50	1.50	0.64	0.14	
			N550918	434.50	436.00	1.50	0.23	0.25	
			N550919	436.00	437.50	1.50	0.4	0.18	
			N550920	437.50	438.74	1.24	0.38	0.1	
			N550921	438.74	439.80	1.06	0.01	0.04	
			N550922	439.80	441.07	1.27	0.22	0.15	
441.07	444.06	**DIOR Diorite** Dark grey to greenish-grey, massive, fine to medium grained, salt and pepper texture. Intermediate intrusive/dyke. Upper contact sharp at 85 dca. Lower contact sharp at 65.	N550923	441.07	442.57	1.50	0.03	0.07	
			N550925	442.57	444.06	1.49	0.07	0.22	
444.06	446.38	**SYEN Syenite** Reddish-brown, fine grained massive syenite. Could still be the diorite but texture is masked by the reddish overprint. Strong fracturing/broken core from 445 to 445.36m.	N550926	444.06	445.36	1.30	0.02	0.05	
			N550927	445.36	446.38	1.02	0.01	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
446.38	452.00	**DIOR Diorite** Dark grey, massive , fine grained diorite. Salt and pepper texture. Dark grey intermediate dyke from 450.6 to 451.1m at 60 dca. Lower contact sharp at 55 dca.	N550928	446.38	447.50	1.12	0.05	0.02	
			N550929	447.50	449.00	1.50	0.11	0.05	
			N550930	449.00	450.50	1.50	0.05	0.04	
			N550932	450.50	452.00	1.50	0.02	0.06	
452.00	460.38	**SYEN Syenite** Medium to dark grey with pinkish sections coarse syenite. Fine grained biotite. Moderate foliation at 35 dca. Could be a granodiorite. Trace pyrrhotite in a 2cm vein at low angle to ca at 458.3m. No visible graphite.	N550933	452.00	453.50	1.50	0.18	0.27	
			N550934	453.50	455.00	1.50	0.14	0.13	
			N550936	455.00	456.50	1.50	0.66	0.4	
			N550937	456.50	458.00	1.50	0.2	0.63	
			N550938	458.00	459.20	1.20	0.29	0.79	
			N550939	459.20	460.38	1.18	0.06	0.17	
460.38	462.00	**ID Intermediate Dyke** Dark grey, fine grained massive intermediate dyke. Upper contact sharp at 60 dca. No visible graphite. EOH 462.0m	N550940	460.38	461.20	0.82	0.04	0.06	
			N550941	461.20	462.00	0.80	0.06	0.04	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	305.79	03/10/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545671	682583			Hand-held GPS		06/10/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	124.10	299.60		-50.20	Chibougamau Diamond Drilling		06/10/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Clayton Kennedy		Clayton Kennedy		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	235.79	Casing Pulled	Casing (1)	66.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
To test the West Pipe.	Although hole was anticipated to hit graphite breccia just under the sediments the top of the hole was syenite. From 100.86m-144.08m a weak breccia was intersected. The larger breccia package was from 100.86m to 217.33m. Two smaller breccia units were intersected at 235.21m to 238.07m and 247.75m - 252.20m. The assays from 64.94m to 281.00m averaged 1.80% Cg over 216.06m; within this intersection a higher grade graphite zone from 82.00m to 217.33m averaged 2.49% Cg over 135.33m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
75.00			310	301	-50.3	-50.3	☑	Reflex EZ	56940	
78.00			310.1	301.1	-50.1	-50.1	☑	Reflex EZ	56470	
81.00			309.5	300.5	-50.2	-50.2	☑	Reflex EZ	56350	
84.00			308.5	299.5	-50.3	-50.3	☑	Reflex EZ	56210	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			308.9	299.9	-50.1	-50.1	☑	Reflex EZ	56194	
90.00			309.3	300.3	-50	-50	☑	Reflex EZ	56202	
93.00			307.8	298.8	-50.3	-50.3	☑	Reflex EZ	56135	
96.00			308.7	299.7	-50.2	-50.2	☑	Reflex EZ	56127	
99.00			309	300	-50	-50	☑	Reflex EZ	56114	
105.00			307.9	298.9	-50.2	-50.2	☑	Reflex EZ	56140	
108.00			308	299	-50.2	-50.2	☑	Reflex EZ	56256	
111.00			309.5	300.5	-49.9	-49.9	☑	Reflex EZ	56306	
114.00			309.3	300.3	-50	-50	☑	Reflex EZ	56324	
117.00			309	300	-50.1	-50.1	☑	Reflex EZ	56320	
120.00			308.3	299.3	-50.2	-50.2	☑	Reflex EZ	56303	
123.00			309.2	300.2	-50	-50	☑	Reflex EZ	56333	
126.00			309.5	300.5	-49.9	-49.9	☑	Reflex EZ	56348	
129.00			308.3	299.3	-50.1	-50.1	☑	Reflex EZ	56322	
132.00			309.7	300.7	-49.9	-49.9	☑	Reflex EZ	56369	
135.00			308.6	299.6	-50.1	-50.1	☑	Reflex EZ	56340	
138.00			310	301	-49.9	-49.9	☑	Reflex EZ	56411	
141.00			308.6	299.6	-50.1	-50.1	☑	Reflex EZ	56385	
144.00			309.1	300.1	-50.1	-50.1	☑	Reflex EZ	56354	
147.00			310.3	301.3	-49.9	-49.9	☑	Reflex EZ	56383	
150.00			310.8	301.8	-50	-50	☑	Reflex EZ	56237	
153.00			306.5	297.5	-50.1	-50.1	☑	Reflex EZ	56175	
162.00			307.5	298.5	-50	-50	☑	Reflex EZ	55719	
165.00			309.8	300.8	-49.8	-49.8	☑	Reflex EZ	56174	
168.00			308.9	299.9	-50.1	-50.1	☑	Reflex EZ	56088	
171.00			308.5	299.5	-50.1	-50.1	☑	Reflex EZ	56136	
174.00			308.6	299.6	-50.1	-50.1	☑	Reflex EZ	56074	
177.00			309.3	300.3	-50.1	-50.1	☑	Reflex EZ	56283	
180.00			310.3	301.3	-49.9	-49.9	☑	Reflex EZ	56325	
183.00			309.2	300.2	-50.1	-50.1	☑	Reflex EZ	56263	
186.00			309.6	300.6	-50.1	-50.1	☑	Reflex EZ	56269	
189.00			310.4	301.4	-49.9	-49.9	☑	Reflex EZ	56298	
192.00			309.2	300.2	-50.2	-50.2	☑	Reflex EZ	56355	
195.00			310.4	301.4	-49.9	-49.9	☑	Reflex EZ	56359	
198.00			309.6	300.6	-50.2	-50.2	☑	Reflex EZ	56281	
201.00			308.9	299.9	-50.2	-50.2	☑	Reflex EZ	56320	
204.00			309	300	-50.2	-50.2	☑	Reflex EZ	56222	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
207.00			309.3	300.3	-50.2	-50.2	☑	Reflex EZ	56201	
210.00			309.4	300.4	-50.2	-50.2	☑	Reflex EZ	56247	
213.00			310.2	301.2	-49.9	-49.9	☑	Reflex EZ	56289	
216.00			310.4	301.4	-49.9	-49.9	☑	Reflex EZ	56315	
219.00			310.6	301.6	-49.9	-49.9	☑	Reflex EZ	56359	
222.00			310	301	-50	-50	☑	Reflex EZ	56326	
225.00			309.5	300.5	-50.1	-50.1	☑	Reflex EZ	56309	
228.00			310.2	301.2	-50	-50	☑	Reflex EZ	56318	
231.00			309.4	300.4	-50	-50	☑	Reflex EZ	56360	
234.00			310.7	301.7	-49.8	-49.8	☑	Reflex EZ	56368	
237.00			309.1	300.1	-50	-50	☑	Reflex EZ	56368	
240.00			310	301	-49.8	-49.8	☑	Reflex EZ	56219	
243.00			310	301	-49.8	-49.8	☑	Reflex EZ	56359	
246.00			308.7	299.7	-50	-50	☑	Reflex EZ	56384	
249.00			309.9	300.9	-49.7	-49.7	☑	Reflex EZ	56295	
252.00			310.5	301.5	-49.7	-49.7	☑	Reflex EZ	56327	
255.00			309	300	-49.9	-49.9	☑	Reflex EZ	56267	
258.00			309.2	300.2	-49.9	-49.9	☑	Reflex EZ	56208	
261.00			309.1	300.1	-49.9	-49.9	☑	Reflex EZ	56292	
264.00			309.5	300.5	-49.9	-49.9	☑	Reflex EZ	56265	
267.00			310.7	301.7	-49.6	-49.6	☑	Reflex EZ	56337	
270.00			310.5	301.5	-49.6	-49.6	☑	Reflex EZ	56218	
276.00			310.5	301.5	-49.5	-49.5	☑	Reflex EZ	56373	
279.00			310.3	301.3	-49.6	-49.6	☑	Reflex EZ	56355	
282.00			309.7	300.7	-49.8	-49.8	☑	Reflex EZ	56313	
285.00			309.5	300.5	-49.8	-49.8	☑	Reflex EZ	56304	
288.00			310	301	-49.5	-49.5	☑	Reflex EZ	56104	
294.00			309	300	-49.7	-49.7	☑	Reflex EZ	56102	
297.00			309.7	300.7	-49.4	-49.4	☑	Reflex EZ	56107	
300.00			309.8	300.8	-49.4	-49.4	☑	Reflex EZ	56323	
303.00			310.2	301.2	-49.3	-49.3	☑	Reflex EZ	56059	
306.00			308.9	299.9	-49.5	-49.5	☑	Reflex EZ	55869	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	64.94	**OB Overburden**							
64.94	84.28	**SYEN Syenite** Grey to pink, fine to medium grained. Chlorite fracture filling, black in some areas and soft dark green in others depending on weathering. Most of this unit is moderately weathered especially above 72m. This unit does not have any significant conductivity. Lower contact sharp at 60dca.	Q157988	64.94	66.00	1.06	1.35	0.07	
			Q157989	66.00	67.00	1.00	0.79	0.03	
			Q157990	67.00	68.00	1.00	0.63	0.04	
			Q157991	67.00	68.00	1.00	0.58	0.03	
			Q157992	68.00	69.00	1.00	0.55	0.02	
			Q157993	69.00	70.00	1.00	0.2	0.04	
			Q157994	70.00	71.00	1.00	0.31	0.03	
			Q157996	71.00	72.00	1.00	0.07	0.01	
			Q157997	72.00	73.00	1.00	0.22	0.07	
			Q157998	73.00	74.00	1.00	0.39	0.1	
			Q157999	74.00	75.00	1.00	0.25	0.06	
			Q158000	75.00	76.00	1.00	0.24	0.07	
			Q158001	76.00	77.00	1.00	0.38	0.14	
			Q158002	77.00	78.00	1.00	1.14	0.1	
			Q158003	78.00	79.00	1.00	0.57	0.12	
			Q158005	79.00	80.00	1.00	0.16	0.27	
			Q158006	80.00	81.00	1.00	0.14	0.16	
			Q158007	81.00	82.00	1.00	0.17	0.08	
			Q158008	82.00	83.00	1.00	2.21	0.04	
			Q158009	83.00	84.28	1.28	1.21	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
84.28	- 100.86	**SYENOP Syenite with Graphitic Overprinting** Grey pink, fine to medium grained with chlorite along fracture plains. There is what seems to be local brecciated areas but the conductivity does not rise in these areas like it has done in other holes. There also seems to be some mild graphite along fractures'. 94.13-95.28 porphyritic intermediate dyke, fine grained grey with green and pink phenocrysts some which have alteration halos. Upper Contact @ 109dca/Lower Contact @ 79dca. Lower contact sharp at 124dca.	Q158011	84.28	85.00	0.72	2.56	0.06	
			Q158010	84.28	85.00	0.72	2.53	0.05	
			Q158012	85.00	86.00	1.00	3.13	0.11	
			Q158013	86.00	87.00	1.00	1.59	0.05	
			Q158014	87.00	88.00	1.00	1.21	0.07	
			Q158016	88.00	89.00	1.00	0.67	0.24	
			Q158017	89.00	90.00	1.00	1.39	0.16	
			Q158018	90.00	91.00	1.00	4.76	0.08	
			Q158019	91.00	92.00	1.00	4.77	0.11	
			Q158020	92.00	93.00	1.00	2.29	0.26	
			Q158021	93.00	94.13	1.13	1.46	0.28	
			Q158022	94.13	95.28	1.15	0.08	0.16	
			Q158023	95.28	96.00	0.72	2.15	0.11	
			Q158025	96.00	97.00	1.00	1.68	0.26	
			Q158026	97.00	98.00	1.00	2	0.12	
			Q158027	98.00	99.00	1.00	0.36	0.28	
			Q158028	99.00	100.00	1.00	1.79	0.16	
			Q158029	100.00	100.86	0.86	1.32	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
100.86	144.08	**GRPBX Graphitic Breccia** Grey fragments in a graphite rich matrix. This breccia does not exhibit very strong conductivity and the difference between the fragments and the matrix are quite subtle. In some areas of the unit the breccia is more of a fracture filling. There are some localized areas of more predominant breccia within this unit. Trace pyrite along fractures. 125.07-126.29 larger zone of syenite without brecciation. 133.25-133.57 grey fine grained felsic dyke. 141.87-142.37 grey fine grained felsic dyke with 1% pyrite associated with fractures. Lower contact sharp at 90dca.	Q158031	100.86	102.00	1.14	2.26	0.43	
			Q158030	100.86	102.00	1.14	2.45	0.35	
			Q158032	102.00	103.00	1.00	1.51	0.29	
			Q158033	103.00	104.00	1.00	2.94	0.14	
			Q158034	104.00	105.00	1.00	3.15	0.17	
			Q158036	105.00	106.00	1.00	1.77	0.35	
			Q158037	106.00	107.00	1.00	3.22	0.24	
			Q158038	107.00	108.00	1.00	5.35	0.14	
			Q158039	108.00	109.00	1.00	2.29	0.26	
			Q158040	109.00	110.00	1.00	1.53	0.39	
			Q158041	110.00	111.00	1.00	3.94	0.3	
			Q158042	111.00	112.00	1.00	3.17	0.14	
			Q158043	112.00	113.00	1.00	2.47	0.21	
			Q158045	113.00	114.00	1.00	2.01	0.18	
			Q158046	114.00	115.00	1.00	6.25	0.2	
			Q158047	115.00	116.00	1.00	4.04	0.32	
			Q158048	116.00	117.00	1.00	3.81	0.17	
			Q158049	117.00	118.00	1.00	0.3	0.08	
			Q158050	118.00	119.00	1.00	1.75	0.13	
			Q158051	118.00	119.00	1.00	1.51	0.14	
			Q158052	119.00	120.00	1.00	4.38	0.25	
			Q158053	120.00	121.00	1.00	4.08	0.19	
			Q158054	121.00	122.00	1.00	6.82	0.39	
			Q158056	122.00	123.00	1.00	7.03	0.32	
			Q158057	123.00	124.00	1.00	0.15	0.07	
			Q158058	124.00	125.00	1.00	1.59	0.16	
			Q158059	125.00	126.29	1.29	0.1	0.04	
			Q158060	126.29	127.00	0.71	1.73	0.1	
			Q158061	127.00	128.00	1.00	6.31	0.29	
			Q158062	128.00	129.00	1.00	5.01	0.29	
			Q158063	129.00	130.00	1.00	1.8	0.15	
			Q158065	130.00	131.00	1.00	6.05	0.23	
			Q158066	131.00	132.00	1.00	5.47	0.59	
			Q158067	132.00	133.00	1.00	4.97	0.33	
			Q158068	133.00	134.00	1.00	3.72	0.76	
			Q158069	134.00	135.00	1.00	3.82	0.45	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q158070	135.00	136.00	1.00	5.04	0.49	
			Q158071	135.00	136.00	1.00	4.85	0.5	
			Q158072	136.00	137.00	1.00	4.91	0.38	
			Q158073	137.00	138.00	1.00	4.97	0.46	
			Q158074	138.00	139.00	1.00	5.22	0.43	
			Q158076	139.00	140.00	1.00	3.09	0.39	
			Q158077	140.00	141.00	1.00	3.96	0.4	
			Q158078	141.00	142.00	1.00	3.72	0.53	
			Q158079	142.00	143.00	1.00	3.09	0.71	
			Q158080	143.00	144.08	1.08	1.32	0.58	
144.08	155.24	**IDP Intermediate Dike (Porphyritic)**							
		This dyke starts out like the typical grey fine grained dyke with small 0.2cm pink and green altered phenocrysts but the fine grained material gradationally becomes more pink. This could be due to some sort of alteration from a fault that is not that far below the unit? Possibly potassic alteration? There are also narrow <0.5cm magnetic veins cutting across this unit at between 50-70dca, which is not observed in other porphyritic intermediate dykes in the area. Lower contact is sharp at 150dca.	Q158081	144.08	145.00	0.92	0.04	0.09	
			Q158082	145.00	146.00	1.00	0.07	0.13	
			Q158083	146.00	147.00	1.00	0.12	0.16	
			Q158085	147.00	148.00	1.00	0.08	0.17	2.77
			Q158086	148.00	149.00	1.00	0.12	0.4	2.71
			Q158087	149.00	150.00	1.00	0.1	0.28	2.64
			Q158088	150.00	151.00	1.00	0.07	0.08	2.69
			Q158089	151.00	152.00	1.00	0.04	0.07	2.71
			Q158091	152.00	153.00	1.00	0.06	0.15	
			Q158090	152.00	153.00	1.00	0.06	0.14	
			Q158092	153.00	154.00	1.00	0.1	0.3	
			Q158093	154.00	155.24	1.24	0.11	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
155.24	170.78	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained. Mild to moderate overprinting and fracture filling with localized brecciated areas. There is trace disseminated pyrite associated with this unit. There are also blebs of massive graphite 2-5cm in size locally throughout the unit. 158.90-160.19 fault zone with some fault gouge at 158.90m and strong fracturing throughout. 167.60-167.64 Porphyritic Intermediate Dyke, siliceous UC @ 72dca/LC @ 118dca. 168.95-169.17 Porphyritic Intermediate Dyke, siliceous, UC @ 72dca/LC irregular at 88dca. 169.26-169.39 Porphyritic Intermediate Dyke, siliceous, UC @ 115dca/LC @ 38dca. 170.38-170.78 Porphyritic Intermediate Dyke, siliceous, UC @ 158dca/LC @117dca. Lower contact of unit is shared with last porphyritic intermediate dyke irregular at 117dca.							
			Q158094	155.24	156.00	0.76	1.05	0.36	
			Q158096	156.00	157.00	1.00	1.37	0.39	
			Q158097	157.00	158.00	1.00	2.76	0.6	
			Q158098	158.00	159.00	1.00	0.93	0.37	
			Q158099	159.00	160.00	1.00	0.81	0.32	
			Q158100	160.00	161.00	1.00	2.56	0.49	
			Q158101	161.00	162.00	1.00	3.13	0.55	
			Q158102	162.00	163.00	1.00	2.07	0.56	
			Q158103	163.00	164.00	1.00	1.78	0.39	
			Q158105	164.00	165.00	1.00	1.2	0.32	
			Q158106	165.00	166.00	1.00	3.63	0.35	
			Q158107	166.00	167.00	1.00	5.78	0.51	
			Q158108	167.00	168.00	1.00	2.69	0.42	
			Q158109	168.00	169.00	1.00	3.2	0.27	
			Q158110	169.00	170.00	1.00	0.98	0.44	
			Q158111	169.00	170.00	1.00	0.75	0.4	
			Q158112	170.00	170.78	0.78	0.18	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
170.78	204.12	**GRPBX Graphitic Breccia** Grey to pink and some pale green chlorite altered fragments, angular to sub-rounded ranging in size from 0.5-30cm in a graphite rich matrix. Some fragments have moderate to strong graphite overprinting as well as biotite alteration. Locally there are areas that are mildly overprinted syenite with mild to moderate fracture filling, these areas are 50-70cm wide. Lower contact sharp at 145dca.	Q158113	170.78	172.00	1.22	4.7	0.31	
			Q158114	172.00	173.00	1.00	3.39	0.43	
			Q158116	173.00	174.00	1.00	4.83	0.31	
			Q158117	174.00	175.00	1.00	3.88	0.29	
			Q158118	175.00	176.00	1.00	1.61	0.31	
			Q158119	176.00	177.00	1.00	7.54	0.26	
			Q158120	177.00	178.00	1.00	4.78	0.33	
			Q158121	178.00	179.00	1.00	4.91	0.35	
			Q158122	179.00	180.00	1.00	3.28	0.24	
			Q158123	180.00	181.00	1.00	1.87	0.2	
			Q158125	181.00	182.00	1.00	3.08	0.38	
			Q158126	182.00	183.00	1.00	2.67	0.24	
			Q158127	183.00	184.00	1.00	3.21	0.2	
			Q158128	184.00	185.00	1.00	1.45	0.14	
			Q158129	185.00	186.00	1.00	4.89	0.38	
			Q158131	186.00	187.00	1.00	5.2	0.36	
			Q158130	186.00	187.00	1.00	5.11	0.33	
			Q158132	187.00	188.00	1.00	1.37	0.19	
			Q158133	188.00	189.00	1.00	3.52	0.26	
			Q158134	189.00	190.00	1.00	2.87	0.23	
			Q158136	190.00	191.00	1.00	2.59	0.2	
			Q158137	191.00	192.00	1.00	3.09	0.18	
			Q158138	192.00	193.00	1.00	0.2	0.14	
			Q158139	193.00	194.00	1.00	2.2	0.16	
			Q158140	194.00	195.00	1.00	2.9	0.33	
			Q158141	195.00	196.00	1.00	1.54	0.13	
			Q158142	196.00	197.00	1.00	1.57	0.24	
			Q158143	197.00	198.00	1.00	1.25	0.21	
			Q158145	198.00	199.00	1.00	2.76	0.6	
			Q158146	199.00	200.00	1.00	1.26	0.35	
			Q158147	200.00	201.00	1.00	1.56	0.18	
			Q158148	201.00	202.00	1.00	2.26	0.14	
			Q158149	202.00	203.00	1.00	2.49	0.24	
			Q158151	203.00	204.12	1.12	0.24	0.13	
			Q158150	203.00	204.12	1.12	0.22	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
204.12	205.58	**FPOP Feldspar Porphyry with Graphitic Overprinting** Grey with white and pale pink feldspar phenocrysts ranging in size from 1mm to 2cm in size. The unit seems to be overprinted but does not have any conductivity? Lower contact sharp at 29dca.	Q158152	204.12	205.00	0.88	0.05	0.13	
			Q158153	205.00	205.58	0.58	0.02	0.11	
205.58	217.33	**GRPBX Graphitic Breccia** Grey to pink and some pale green chlorite altered fragments, angular to sub-rounded ranging in size from 0.5-30cm in a graphite rich matrix. Some fragments have moderate to strong graphite overprinting as well as biotite alteration. Locally there are areas that are mildly overprinted syenite with mild to moderate fracture filling, these areas are 50-70cm wide. 295.89-205.95 pink felsic dyke. 209.11-209.43 grey felsic siliceous dyke. Lower contact sharp at 130dca.	Q158154	205.58	206.00	0.42	1.01	0.09	
			Q158156	206.00	207.00	1.00	0.41	0.14	
			Q158157	207.00	208.00	1.00	1.22	0.19	
			Q158158	208.00	209.00	1.00	0.6	0.17	
			Q158159	209.00	210.00	1.00	1.01	0.14	2.7
			Q158160	210.00	211.00	1.00	1.14	0.47	2.66
			Q158161	211.00	212.00	1.00	3.42	0.32	2.7
			Q158162	212.00	213.00	1.00	1.89	0.1	2.6
			Q158163	213.00	214.00	1.00	3.53	0.23	2.65
			Q158165	214.00	215.00	1.00	1.29	0.14	
			Q158166	215.00	216.00	1.00	0.91	0.18	
			Q158167	216.00	217.33	1.33	2.95	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
217.33	233.42	**SYENOP Syenite with Graphitic Overprinting** Grey and pink with black biotite rich areas. There is a slight foliation to this unit and it may be getting closer to a gneiss. There is moderate graphitic fracture filling. And locally some areas are moderately to strongly conductive. Lower contact sharp at 50dca.	Q158168	217.33	218.00	0.67	0.2	0.09	
			Q158169	218.00	219.00	1.00	0.79	0.12	
			Q158170	219.00	220.00	1.00	0.09	0.1	
			Q158171	219.00	220.00	1.00	0.1	0.09	
			Q158172	220.00	221.00	1.00	0.05	0.07	
			Q158173	221.00	222.00	1.00	0.12	0.15	
			Q158174	222.00	223.00	1.00	0.12	0.11	
			Q158176	223.00	224.00	1.00	0.19	0.03	
			Q158177	224.00	225.00	1.00	0.06	0.06	
			Q158178	225.00	226.00	1.00	0.04	0.03	
			Q158179	226.00	227.00	1.00	0.07	0.06	
			Q158180	227.00	228.00	1.00	0.04	0.11	
			Q158181	228.00	229.00	1.00	0.04	0.1	
			Q158182	229.00	230.00	1.00	0.34	0.12	
			Q158183	230.00	231.00	1.00	0.55	0.08	
			Q158185	231.00	232.00	1.00	0.06	0.04	
			Q158186	232.00	233.00	1.00	0.1	0.08	
			Q158187	233.00	233.42	0.42	0.07	0.09	
233.42	235.21	**IDP Intermediate Dike (Porphyritic)** Grey/green fine grained rock with different shades of white phenocrysts. This could also be a feldspar porphyry with moderate to strong chlorite alteration. Lower contact sharp at 66dca.	Q158188	233.42	234.00	0.58	0.02	0.13	
			Q158189	234.00	235.21	1.21	0.04	0.12	
235.21	238.07	**GRPBX Graphitic Breccia** Angular to sub-rounded grey to pink fragments in a graphite rich matrix. The fragments are mildly overprinted with graphite. This unit it is about 60% breccia and 40% mildly overprinted syenite with moderate to strong fracture filling. Lower contact sharp at 50dca.	Q158191	235.21	236.00	0.79	1.07	0.34	
			Q158190	235.21	236.00	0.79	1.13	0.29	
			Q158192	236.00	237.00	1.00	1.52	0.61	
			Q158193	237.00	238.07	1.07	2.79	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
238.07	239.75	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained with mild graphite overprinting and fracture filling. Lower contact sharp at 63dca.	Q158194	238.07	239.00	0.93	0.17	0.09	
			Q158196	239.00	239.75	0.75	0.18	0.12	
239.75	246.32	**SYENSL Syenite Sill (unmineralized)** Grey/green medium to coarse grained with local fine grained siliceous zones. 242.90-243.00 small fracture zone. Lower contact irregular at 114dca.	Q158197	239.75	241.00	1.25	0.03	0.08	
			Q158198	241.00	242.50	1.50	0.01	0.12	
			Q158199	242.50	244.00	1.50	0.04	0.03	
			Q158200	244.00	245.50	1.50	0.02	0.06	
			Q158201	245.50	246.32	0.82	0.02	0.04	
246.32	247.75	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained with mild graphite overprinting and fracture filling. Lower contact sharp at 99dca.	Q158202	246.32	247.00	0.68	0.03	0.2	
			Q158203	247.00	247.75	0.75	0.16	0.2	
247.75	252.20	**GRPBX Graphitic Breccia** Angular to sub-rounded grey to pink fragments in a graphite rich matrix. The fragments are mildly overprinted with graphite. This unit it is about 75% breccia and 25% mildly overprinted syenite with moderate to strong fracture filling. Lower contact sharp at 54dca.	Q158205	247.75	249.00	1.25	5.29	0.42	
			Q158206	249.00	250.00	1.00	4.21	0.33	
			Q158207	250.00	251.00	1.00	3.74	0.23	
			Q158208	251.00	252.20	1.20	3.49	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
252.20	282.10	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained with mild graphite overprinting and fracture filling. There are localized breccia zones <5cm wide and some <10cm wide pink felsic dykelets through out the unit at random angles. 256.33-257.50 chlorite and biotite alteration along moderate to strong foliation at 22dca. 281.08-281.32 Porphyritic Intermediate Dyke. 381.67-282.10 Porphyritic Intermediate Dyke. Lower contact irregular and shared with porphyritic intermediate dyke.	Q158209	252.20	253.00	0.80	0.36	0.23	
			Q158210	253.00	254.00	1.00	0.32	0.21	
			Q158211	253.00	254.00	1.00	0.29	0.18	
			Q158212	254.00	255.00	1.00	0.18	0.2	
			Q158213	255.00	256.00	1.00	0.24	0.25	
			Q158214	256.00	257.00	1.00	0.38	0.09	
			Q158216	257.00	258.00	1.00	0.44	0.08	
			Q158217	258.00	259.00	1.00	0.74	0.13	
			Q158218	259.00	260.00	1.00	0.46	0.13	
			Q158219	260.00	261.00	1.00	1.94	0.2	
			Q158220	261.00	262.00	1.00	0.81	0.17	
			Q158221	262.00	263.00	1.00	0.99	0.19	
			Q158222	263.00	264.00	1.00	0.39	0.09	
			Q158223	264.00	265.00	1.00	0.73	0.11	
			Q158225	265.00	266.00	1.00	0.63	0.29	
			Q158226	266.00	267.00	1.00	0.63	0.19	
			Q158227	267.00	268.00	1.00	0.61	0.1	
			Q158228	268.00	269.00	1.00	0.47	0.19	
			Q158229	269.00	270.00	1.00	0.51	0.27	
			Q158230	270.00	271.00	1.00	0.57	0.25	
			Q158231	270.00	271.00	1.00	0.61	0.26	
			Q158232	271.00	272.00	1.00	0.51	0.23	
			Q158233	272.00	273.00	1.00	0.21	0.19	
			Q158234	273.00	274.00	1.00	0.22	0.23	
			Q158236	274.00	275.00	1.00	0.66	0.15	2.69
			Q158237	275.00	276.00	1.00	0.88	0.13	2.71
			Q158238	276.00	277.00	1.00	0.69	0.14	2.64
			Q158239	277.00	278.00	1.00	0.85	0.16	2.71
			Q158240	278.00	279.00	1.00	0.62	0.12	2.7
			Q158241	279.00	280.00	1.00	0.63	0.09	
			Q158242	280.00	281.00	1.00	0.55	0.09	
			Q158243	281.00	282.10	1.10	0.06	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
282.10	305.79	**SYENSL Syenite Sill (unmineralized)** Grey/green medium to coarse grained with local fine grained siliceous zones. EOH 305.79m	Q158245	282.10	283.50	1.40	0.02	0.01	
			Q158246	283.50	285.00	1.50	0.01	0.02	
			Q158247	285.00	286.50	1.50	0.04	0.04	
			Q158248	286.50	288.00	1.50	0.03	0.02	
			Q158249	288.00	289.50	1.50	0.01	0.03	
			Q158250	289.50	291.00	1.50	0.11	0.05	
			Q158251	289.50	291.00	1.50	0.1	0.07	
			Q158252	291.00	292.50	1.50	0.31	0.13	
			Q158253	292.50	294.00	1.50	0.29	0.15	
			Q158254	294.00	295.50	1.50	0.15	0.15	
			Q158256	295.50	297.00	1.50	0.02	0.11	2.7
			Q158257	297.00	298.50	1.50	0.02	0.03	2.71
			Q158258	298.50	300.00	1.50	0.03	0.02	2.72
			Q158259	300.00	301.50	1.50	0.01	0.03	2.72
			Q158260	301.50	303.00	1.50	0.01	0.02	2.71
			Q158261	303.00	304.50	1.50	0.01	0.04	
			Q158262	304.50	305.79	1.29	0.01	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	342.00	05/10/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545707	682605			Hand-held GPS		08/10/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	125.90	299.70		-50.00	Chibougamau Diamond Drilling		09/10/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	NQ	276	Casing Pulled	Casing (1)	66.00	Steel	Plugged	Pulsed	Geophysics Contractor	Date Pulsed
(2)			☐	(2)			☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Test west pipe from the southeast.	This drill hole intersected well mineralized graphitic breccia from 67.50m to 231.50m for 164.00m and from 240.56m to 264.15m for 23.59m downhole. The graphitic breccia has been intruded by numerous thin dykes <2m thick; it also includes a few overprinted syenite sections 2-5m thick. From 68.50m to 264.15m, the assays from this intersection averaged 2.80% Cg over 195.65m; within this intersection a higher grade graphite zone from 86.10m to 192.00m averaged 3.53% Cg over 105.90m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
69.00			309.2	300.2	-49.6	-49.6	☑	Reflex EZ	56891	
72.00			308.3	299.3	-50.2	-50.2	☑	Reflex EZ	56612	
75.00			308.8	299.8	-49.8	-49.8	☑	Reflex EZ	56563	
78.00			309.1	300.1	-49.3	-49.3	☑	Reflex EZ	56460	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
81.00			308.7	299.7	-49.7	-49.7	☑	Reflex EZ	56502	
84.00			308.2	299.2	-49.6	-49.6	☑	Reflex EZ	56479	
87.00			308.4	299.4	-49.5	-49.5	☑	Reflex EZ	56456	
90.00			308.7	299.7	-49.8	-49.8	☑	Reflex EZ	56479	
93.00			308.5	299.5	-49.5	-49.5	☑	Reflex EZ	56454	
96.00			308.4	299.4	-49.7	-49.7	☑	Reflex EZ	56459	
99.00			309.1	300.1	-49.5	-49.5	☑	Reflex EZ	56446	
102.00			309.2	300.2	-49.5	-49.5	☑	Reflex EZ	56434	
105.00			309	300	-49.6	-49.6	☑	Reflex EZ	56469	
108.00			308.4	299.4	-49.7	-49.7	☑	Reflex EZ	56451	
111.00			308.7	299.7	-49.5	-49.5	☑	Reflex EZ	56446	
114.00			308.7	299.7	-49.9	-49.9	☑	Reflex EZ	56408	
117.00			308.5	299.5	-50	-50	☑	Reflex EZ	56483	
120.00			309	300	-49.4	-49.4	☑	Reflex EZ	56410	
123.00			308.9	299.9	-49.8	-49.8	☑	Reflex EZ	56468	
126.00			308.6	299.6	-50	-50	☑	Reflex EZ	56500	
129.00			308.8	299.8	-49.9	-49.9	☑	Reflex EZ	56500	
132.00			308.9	299.9	-50	-50	☑	Reflex EZ	56522	
135.00			308.6	299.6	-50	-50	☑	Reflex EZ	56504	
138.00			308.7	299.7	-49.7	-49.7	☑	Reflex EZ	56460	
141.00			308.6	299.6	-49.7	-49.7	☑	Reflex EZ	56465	
144.00			308.5	299.5	-49.7	-49.7	☑	Reflex EZ	56437	
147.00			308.9	299.9	-49.6	-49.6	☑	Reflex EZ	56435	
150.00			308.7	299.7	-50.1	-50.1	☑	Reflex EZ	56535	
153.00			308.9	299.9	-49.7	-49.7	☑	Reflex EZ	56358	
156.00			308.6	299.6	-49.8	-49.8	☑	Reflex EZ	56475	
159.00			308.6	299.6	-50.1	-50.1	☑	Reflex EZ	56523	
162.00			308.6	299.6	-50	-50	☑	Reflex EZ	56483	
165.00			309.2	300.2	-49.9	-49.9	☑	Reflex EZ	56468	
168.00			309.2	300.2	-50	-50	☑	Reflex EZ	56509	
171.00			309	300	-50.1	-50.1	☑	Reflex EZ	56510	
174.00			308.9	299.9	-49.9	-49.9	☑	Reflex EZ	56459	
177.00			309.8	300.8	-49.6	-49.6	☑	Reflex EZ	56447	
180.00			308.8	299.8	-49.8	-49.8	☑	Reflex EZ	56534	
183.00			309.1	300.1	-50.3	-50.3	☑	Reflex EZ	56496	
186.00			309	300	-49.9	-49.9	☑	Reflex EZ	56500	
189.00			309.3	300.3	-49.8	-49.8	☑	Reflex EZ	56476	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
192.00			310.1	301.1	-49.8	-49.8	☑	Reflex EZ	56412	
195.00			309.5	300.5	-50.2	-50.2	☑	Reflex EZ	56463	
198.00			309.4	300.4	-49.9	-49.9	☑	Reflex EZ	56463	
201.00			309.2	300.2	-50.1	-50.1	☑	Reflex EZ	56467	
204.00			309.6	300.6	-49.5	-49.5	☑	Reflex EZ	56423	
207.00			309.9	300.9	-49.7	-49.7	☑	Reflex EZ	56408	
210.00			309.6	300.6	-49.7	-49.7	☑	Reflex EZ	56414	
213.00			309.2	300.2	-50	-50	☑	Reflex EZ	56491	
216.00			309.2	300.2	-49.7	-49.7	☑	Reflex EZ	56423	
219.00			309.9	300.9	-49.6	-49.6	☑	Reflex EZ	56393	
222.00			309.3	300.3	-50.1	-50.1	☑	Reflex EZ	56492	
225.00			309.1	300.1	-49.8	-49.8	☑	Reflex EZ	56402	
228.00			309.6	300.6	-49.8	-49.8	☑	Reflex EZ	56403	
231.00			309.5	300.5	-49.9	-49.9	☑	Reflex EZ	56429	
234.00			310	301	-49.7	-49.7	☑	Reflex EZ	56414	
237.00			310.3	301.3	-49.2	-49.2	☑	Reflex EZ	56301	
240.00			310.1	301.1	-49.5	-49.5	☑	Reflex EZ	56350	
243.00			309.7	300.7	-49.4	-49.4	☑	Reflex EZ	56330	
246.00			309.9	300.9	-49.3	-49.3	☑	Reflex EZ	56299	
249.00			309.9	300.9	-49.5	-49.5	☑	Reflex EZ	56352	
252.00			309.7	300.7	-49.6	-49.6	☑	Reflex EZ	56391	
255.00			309.9	300.9	-49.4	-49.4	☑	Reflex EZ	56389	
258.00			309.5	300.5	-49.2	-49.2	☑	Reflex EZ	56389	
261.00			309.8	300.8	-49	-49	☑	Reflex EZ	56333	
264.00			310.3	301.3	-48.9	-48.9	☑	Reflex EZ	56312	
267.00			310.1	301.1	-49.2	-49.2	☑	Reflex EZ	56314	
270.00			309.6	300.6	-48.9	-48.9	☑	Reflex EZ	56396	
273.00			309.8	300.8	-49.2	-49.2	☑	Reflex EZ	56112	
276.00			309.7	300.7	-49.1	-49.1	☑	Reflex EZ	56244	
279.00			310.2	301.2	-48.7	-48.7	☑	Reflex EZ	56243	
282.00			309.5	300.5	-48.7	-48.7	☑	Reflex EZ	56368	
285.00			309.5	300.5	-49.1	-49.1	☑	Reflex EZ	56461	
288.00			309.7	300.7	-48.7	-48.7	☑	Reflex EZ	56407	
291.00			310.2	301.2	-48.5	-48.5	☑	Reflex EZ	56430	
294.00			309	300	-48.9	-48.9	☑	Reflex EZ	56092	
297.00			309.8	300.8	-48.5	-48.5	☑	Reflex EZ	56262	
300.00			309	300	-48.7	-48.7	☑	Reflex EZ	56302	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
303.00			309.7	300.7	-48.3	-48.3	☑	Reflex EZ	56130	
306.00			309.2	300.2	-48.9	-48.9	☑	Reflex EZ	56174	
309.00			309.7	300.7	-48.5	-48.5	☑	Reflex EZ	56196	
312.00			308.6	299.6	-48.5	-48.5	☑	Reflex EZ	56188	
315.00			310.2	301.2	-48.2	-48.2	☑	Reflex EZ	56137	
318.00			309.4	300.4	-48.3	-48.3	☑	Reflex EZ	55893	
321.00			309.2	300.2	-48.6	-48.6	☑	Reflex EZ	56233	
324.00			308.4	299.4	-48.7	-48.7	☑	Reflex EZ	56451	
327.00			310	301	-48.3	-48.3	☑	Reflex EZ	56262	
330.00			309.7	300.7	-48.6	-48.6	☑	Reflex EZ	56257	
336.00			309.1	300.1	-48.3	-48.3	☑	Reflex EZ	56220	
339.00			309.4	300.4	-48.3	-48.3	☑	Reflex EZ	56162	
342.00			310	301	-48	-48	☑	Reflex EZ	56090	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	67.50	**OB Overburden** From 0 to 61 unknown overburden. From 61 to 61.7 boulders and pebble sized fragments of limestone and syenite. From 61.7 to 67.5 extremely weathered syenite/graphitic breccia sections mixed with red, black and grey mud sections.							
67.50	90.85	**GRPBX Graphitic Breccia** Reddish-grey to black brecciated syenite. Paleo-weathered sections, very friable core from 67.5 to 71m. Good graphite as graphite flooding in the matrix. Minor carbonate veinlets from 77 to 78m. Paleo-weathered sections of core from 77.8 to 82.3m. Lower contact sharp at 50 dca.	N550942	67.50	68.50	1.00	3.66	0.01	
			N550943	68.50	69.50	1.00	2.71	0.05	
			N550945	69.50	70.50	1.00	2.51	0.03	
			N550946	70.50	71.50	1.00	1.33	0.04	
			N550947	71.50	72.50	1.00	1.56	0.08	
			N550948	72.50	73.50	1.00	3.86	0.03	
			N550949	73.50	74.65	1.15	1.2	0.03	
			N550950	74.65	75.90	1.25	0.06	0.04	
			N550952	75.90	77.00	1.10	1.71	0.02	
			N550953	77.00	78.10	1.10	4.21	0.03	
			N550954	78.10	79.20	1.10	2.35	0.02	
			N550956	79.20	80.20	1.00	1.63	0.04	
			N550957	80.20	81.30	1.10	1.53	0.02	2.53
			N550958	81.30	82.30	1.00	2.81	0.05	2.43
			N550959	82.30	83.30	1.00	4.5	0.07	2.59
			N550960	83.30	84.30	1.00	1.42	0.03	2.61
			N550961	84.30	85.20	0.90	2.37	0.01	2.43
			N550962	85.20	86.10	0.90	2.7	0.2	
			N550963	86.10	87.00	0.90	5.46	0.01	
			N550965	87.00	88.00	1.00	2.03	0.02	
			N550966	88.00	89.00	1.00	3.26	0.03	
			N550967	89.00	90.00	1.00	3.4	0.03	
			N550968	90.00	90.85	0.85	0.65	0.01	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
90.85	93.10	**IDP Intermediate Dike (Porphyritic)** Medium to dark grey to greenish-grey, porphyritic intermediate dyke. Subhedral pink feldspar and dark green subrounded amphibole phenocrysts 1-5mm in size. Moderately fractured core from 91.8 to 92.6. No visible graphite. Upper contact sharp at 45 dca. Lower contact sharp at 55 dca.	N550969	90.85	92.00	1.15	0.34	0.04	
			N550970	92.00	93.10	1.10	0.32	0.02	
93.10	107.89	**GRPBX Graphitic Breccia** Medium to dark grey with a reddish hue, medium grained, brecciate syenite. Moderate to good graphite mainly as fracture filling veinlets and minor graphite flooding in the matrix. Fault gouge, green clay from 104.4 to 104.7. Lower contact sharp at 70 dca.	N550972	93.10	94.10	1.00	3.27	0.01	
			N550973	94.10	95.00	0.90	3.99	0.01	
			N550974	95.00	96.00	1.00	0.65	0.08	
			N550976	96.00	97.00	1.00	6.33	0.02	
			N550977	97.00	98.00	1.00	1.8	0.03	
			N550978	98.00	99.00	1.00	4.04	0.05	
			N550979	99.00	100.00	1.00	4.78	0.03	
			N550980	100.00	101.00	1.00	3.39	0.08	
			N550981	101.00	102.00	1.00	0.65	0.09	
			N550982	102.00	103.00	1.00	3.37	0.1	
			N550983	103.00	104.00	1.00	0.97	0.13	
			N550985	104.00	105.00	1.00	3.42	0.1	
			N550986	105.00	106.00	1.00	1.3	0.2	
			N550987	106.00	106.90	0.90	4.43	0.06	
			N550988	106.90	107.89	0.99	5.14	0.09	
107.89	113.21	**SYENOP Syenite with Graphitic Overprinting** Medium grey, medium grained massive syenite. Weak graphite overprinting as a 10cm breccia section at 110m. Lower contact sharp at 90 dca.	N550989	107.89	109.00	1.11	0.42	0.14	
			N550990	109.00	110.00	1.00	2.59	0.09	
			N550992	110.00	111.10	1.10	0.82	0.04	
			N550993	111.10	112.20	1.10	0.07	0.13	
			N550994	112.20	113.21	1.01	0.14	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
113.21	126.45	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained, brecciated syenite. Moderate to locally good graphite content as fracture filling veinlets and graphite flooding in the matrix. Lower contact sharp at 70 dca.	N550996	113.21	114.10	0.89	2.33	0.18	
			N550997	114.10	115.00	0.90	0.55	0.12	
			N550998	115.00	116.00	1.00	4.27	0.17	
			N550999	116.00	117.00	1.00	3.56	0.29	
			N551000	117.00	118.00	1.00	2.52	0.35	
			N551001	118.00	119.00	1.00	1.93	0.23	
			N551002	119.00	120.00	1.00	4.47	0.11	
			N551003	120.00	121.00	1.00	6.98	0.15	
			N551005	121.00	122.10	1.10	4.19	0.16	
			N551006	122.10	123.20	1.10	4.88	0.24	
			N551007	123.20	124.30	1.10	2.87	0.17	
			N551008	124.30	125.40	1.10	6.69	0.17	
			N551009	125.40	126.45	1.05	5.64	0.2	
126.45	130.60	**SYENOP Syenite with Graphitic Overprinting** Dark grey to reddish-grey, medium grained, massive syenite. Weak graphite overprinting as localized breccia sections from 127 to 127.5 and from 129.3 to 129.8. Lower contact sharp at 15 dca.	N551010	126.45	127.50	1.05	2.43	0.18	
			N551012	127.50	128.50	1.00	0.32	0.17	
			N551013	128.50	129.50	1.00	2.54	0.17	
			N551014	129.50	130.60	1.10	1.96	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
130.60 -	141.04	**GRPBX Graphitic Breccia** Medium to dark grey, medium grained, brecciated syenite. Moderate to locally good graphite content as fracture filling veinlets and graphite flooding in the matrix. Moderate fracturing from 131. to 131.3 and from 132.2 to 132.4m. Lower contact sharp at 80 dca.	N551016	130.60	131.70	1.10	7.76	0.41	
			N551017	131.70	132.80	1.10	3.84	0.31	
			N551018	132.80	133.90	1.10	5.52	0.36	
			N551019	133.90	135.00	1.10	5.66	0.26	
			N551020	135.00	136.00	1.00	4.14	0.25	
			N551021	136.00	137.00	1.00	5.95	0.5	
			N551022	137.00	138.00	1.00	3.53	0.51	
			N551023	138.00	139.00	1.00	3.24	0.35	
			N551025	139.00	140.00	1.00	7.2	0.68	
			N551026	140.00	141.04	1.04	6.09	0.41	
141.04 -	142.45	**SYEN Syenite** Medium grey to pinkish-grey, massive coarse syenite. No visible graphite. Lower contact sharp at 25 dca.	N551027	141.04	142.45	1.41	0.08	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
142.45	183.84	**GRPBX Graphitic Breccia** Medium to dark grey, medium to coarse grained brecciated syenite. Good graphite mineralization as fracture filling graphite veinlets and as graphite flooding in the matrix. Mainly angular syenite fragments with minor mafic to intermediate fine grained dyke fragments. Fragments range in size from <1cm to 60cm.	N551028	142.45	143.45	1.00	5.21	0.42	
			N551029	143.45	144.65	1.20	3.59	0.41	
			N551030	144.65	145.58	0.93	0.56	1.68	
			N551032	145.58	146.60	1.02	1.98	0.22	
			N551033	146.60	147.70	1.10	4.14	0.33	
			N551034	147.70	148.80	1.10	3.42	0.45	
			N551036	148.80	149.90	1.10	5.04	0.23	
			N551037	149.90	151.00	1.10	2.79	0.24	
			N551038	151.00	152.00	1.00	5.36	0.96	
			N551039	152.00	153.00	1.00	5.75	0.35	
			N551040	153.00	154.00	1.00	5.74	0.56	
			N551041	154.00	155.00	1.00	7.21	0.47	
			N551042	155.00	156.00	1.00	6.99	0.52	
			N551043	156.00	157.00	1.00	6	0.62	
			N551045	157.00	158.00	1.00	5.44	0.38	
			N551046	158.00	158.90	0.90	3.61	0.42	
			N551047	158.90	159.83	0.93	4.83	0.59	
			N551048	159.83	160.65	0.82	0.63	0.22	
			N551049	160.65	161.46	0.81	2.18	0.26	
			N551050	161.46	162.40	0.94	4.58	0.45	
			N551052	162.40	163.30	0.90	4.77	0.25	
			N551053	163.30	164.20	0.90	2.34	0.26	
			N551054	164.20	165.10	0.90	3.3	0.37	
			N551056	165.10	166.00	0.90	6.93	0.45	
			N551057	166.00	167.00	1.00	6.91	0.43	
			N551058	167.00	168.00	1.00	5.28	0.29	
			N551059	168.00	169.00	1.00	3.14	0.42	2.65
			N551060	169.00	170.00	1.00	3.47	0.57	2.76
			N551061	170.00	171.00	1.00	4.57	0.47	2.85
			N551062	171.00	172.00	1.00	2.93	0.22	2.64
			N551063	172.00	173.00	1.00	2.92	0.46	2.62
			N551065	173.00	174.00	1.00	5.73	0.96	
			N551066	174.00	175.00	1.00	3.06	0.3	
			N551067	175.00	176.00	1.00	3.33	0.38	
			N551068	176.00	177.00	1.00	3.82	0.49	
			N551069	177.00	178.00	1.00	4.23	0.64	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N551070	178.00	179.00	1.00	2.31	0.52	
			N551072	179.00	180.00	1.00	2.38	0.47	
			N551073	180.00	181.00	1.00	4.51	0.39	
			N551074	181.00	182.00	1.00	3.73	0.37	
			N551076	182.00	182.90	0.90	2.67	0.3	
			N551077	182.90	183.84	0.94	5.64	0.5	
183.84	185.93	**SYENOP Syenite with Graphitic Overprinting** Light grey, massive, coarse syenite. Weak graphite overprinting as hairline fracture filling graphite veinlets. Upper contact sharp at 50 dca. Lower contact sharp at 65 dca.	N551078	183.84	184.90	1.06	0.21	0.12	
			N551079	184.90	185.93	1.03	0.07	0.13	
185.93	201.60	**GRPBX Graphitic Breccia** Medium to dark grey, medium to coarse grained, brecciated syenite. Good graphite as fracture filling veinlets and as graphite flooding in the matrix.	N551080	185.93	187.00	1.07	4.67	0.31	
			N551081	187.00	188.00	1.00	3.27	0.18	
			N551082	188.00	189.00	1.00	2.58	0.17	
			N551083	189.00	190.00	1.00	2.71	0.23	
			N551085	190.00	191.00	1.00	2.56	0.26	
			N551086	191.00	192.00	1.00	4.9	0.34	
			N551087	192.00	193.00	1.00	1.66	0.31	
			N551088	193.00	194.00	1.00	2.17	0.38	
			N551089	194.00	195.00	1.00	2.25	0.36	
			N551090	195.00	196.00	1.00	0.65	0.12	
			N551092	196.00	196.73	0.73	0.13	0.16	
			N551093	196.73	197.90	1.17	2.03	0.26	
			N551094	197.90	198.85	0.95	0.32	0.27	
			N551096	198.85	199.80	0.95	1.75	0.11	
			N551097	199.80	200.70	0.90	2.66	0.39	
			N551098	200.70	201.60	0.90	1.19	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
201.60	203.20	**SYENOP Syenite with Graphitic Overprinting** Light grey to pinkish-grey, massive coarse grained syenite. Weak graphite overprinting as hairline fracture filling veinlets. Upper contact sharp at 55 dca. Lower contact sharp at 20 dca.	N551099	201.60	202.40	0.80	0.2	0.14	
			N551100	202.40	203.20	0.80	1.29	0.35	
203.20	213.30	**GRPBX Graphitic Breccia** Medium grey to pinkish-grey, coarse grained brecciated syenite. Moderate to locally good graphite as graphite flooding in the matrix and as fracture filling graphite veinlets.	N551101	203.20	204.10	0.90	2.47	0.15	
			N551102	204.10	205.00	0.90	2.29	0.14	
			N551103	205.00	206.00	1.00	2.17	0.15	
			N551105	206.00	207.00	1.00	4.11	0.28	
			N551106	207.00	208.00	1.00	0.09	0.11	
			N551107	208.00	209.00	1.00	0.04	0.09	
			N551108	209.00	210.14	1.14	5.57	0.33	
			N551109	210.14	211.30	1.16	0.39	0.03	
			N551110	211.30	212.30	1.00	1.9	0.17	
			N551112	212.30	213.30	1.00	3.54	0.19	
213.30	216.68	**SYEN Syenite** Light grey to pink locally brecciated syenite. No visible graphite. Porphyritic mafic dyke from 214 to 214.3m. Upper contact sharp at 85 dca. Lower contact at 60 dca.	N551113	213.30	214.30	1.00	0.28	0.06	
			N551114	214.30	215.50	1.20	0.21	0.02	
			N551116	215.50	216.68	1.18	0.11	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
216.68 -	221.68	**GRPBX Graphitic Breccia** Medium grey, medium grained, brecciated syenite. Good graphite in the matrix and as fracture filling veinlets. Lower contact sharp at 85 dca.	N551117	216.68	217.68	1.00	1.8	0.1	
			N551118	217.68	218.68	1.00	2.41	0.31	
			N551119	218.68	219.68	1.00	0.95	0.37	
			N551120	219.68	220.68	1.00	2.88	0.3	
			N551121	220.68	221.68	1.00	2.54	0.18	
221.68 -	225.56	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey with pinkish sections , massive syenite. Weak overall graphite content as minor brecciated section from 223.5 to 224m. Lower contact sharp at 25 dca.	N551122	221.68	222.60	0.92	1.16	0.03	
			N551123	222.60	223.60	1.00	0.43	0.06	
			N551125	223.60	224.60	1.00	1.09	0.14	
			N551126	224.60	225.56	0.96	0.09	0.06	
225.56 -	231.50	**GRPBX Graphitic Breccia** Light to medium grey, medium grained, brecciated syenite. Good graphite as graphite flooding in the matrix. Angular syenite fragments from <1 to 20cm. Trace sulphides as fracture filling pyrite at 228.3m.	N551127	225.56	226.50	0.94	1.91	0.18	
			N551128	226.50	227.50	1.00	3.99	0.37	
			N551129	227.50	228.50	1.00	4.15	0.34	
			N551130	228.50	229.50	1.00	4.84	0.26	
			N551132	229.50	230.50	1.00	5.26	0.23	
			N551133	230.50	231.50	1.00	9.08	0.89	
231.50 -	233.95	**SYENOP Syenite with Graphitic Overprinting** Medium grey to reddish-grey, coarse syenite. Minor brecciation. Weak graphite overprinting as odd fracture filling graphite veinlet. Upper contact sharp at 30 dca. Lower contact at 65 dca.	N551134	231.50	232.30	0.80	0.31	0.06	
			N551136	232.30	233.15	0.85	0.15	0.23	
			N551137	233.15	233.95	0.80	0.07	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
233.95	240.56	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. No visible graphite. Lower contact sharp at 85 dca.	N551138	233.95	235.00	1.05	0.05	0.1	
			N551139	235.00	236.00	1.00	0.06	0.16	
			N551140	236.00	237.00	1.00	0.04	0.1	
			N551141	237.00	238.00	1.00	0.03	0.22	
			N551142	238.00	238.90	0.90	0.08	0.29	
			N551143	238.90	239.80	0.90	0.04	0.02	
			N551145	239.80	240.56	0.76	0.19	0.15	
240.56	249.86	**GRPBX Graphitic Breccia** Matrix supported graphitic breccia with light grey angular to subrounded syenite fragments <1 to 15cm in size in dark grey to black graphite flooded matrix. Lower contact sharp at 60 dca.	N551146	240.56	241.50	0.94	5.43	0.12	
			N551147	241.50	242.50	1.00	3.72	0.34	
			N551148	242.50	243.50	1.00	3.7	0.14	
			N551149	243.50	244.50	1.00	4.29	0.12	
			N551150	244.50	245.50	1.00	2.3	0.18	
			N551152	245.50	246.50	1.00	3.87	0.18	
			N551153	246.50	247.60	1.10	3.03	0.25	
			N551154	247.60	248.70	1.10	2.53	0.33	
			N551156	248.70	249.86	1.16	5.29	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
249.86 -	259.64	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey, medium grained massive syenite. Graphite overprinting mainly weak as fracture filling graphite veinlets and locally moderate as small ~5cm graphitic breccia sections at 253.5 and from 256.2 to 256.9m. Lower contact sharp at 55 dca.	N551157	249.86	250.90	1.04	0.7	0.16	
			N551158	250.90	252.00	1.10	0.23	0.05	2.58
			N551159	252.00	253.00	1.00	0.12	0.04	2.59
			N551160	253.00	254.00	1.00	0.71	0.12	2.59
			N551161	254.00	254.90	0.90	0.26	0.14	2.61
			N551162	254.90	255.80	0.90	0.55	0.06	2.62
			N551163	255.80	256.70	0.90	1.52	0.1	
			N551165	256.70	257.60	0.90	2.04	0.12	
			N551166	257.60	258.60	1.00	0.6	0.11	
			N551167	258.60	259.64	1.04	0.83	0.32	
259.64 -	264.15	**GRPBX Graphitic Breccia** Light to medium grey mainly fractured and locally brecciated syenite. Good graphite from upper contact to 261 as graphite flooding in the matrix. Mainly moderate as fracture filling graphite veinlets from 262 to 264.15m.	N551168	259.64	260.50	0.86	4.46	0.09	
			N551169	260.50	261.40	0.90	1.81	0.15	
			N551170	261.40	262.30	0.90	2.27	0.15	
			N551172	262.30	263.20	0.90	1.7	0.14	
			N551173	263.20	264.15	0.95	1.08	0.07	
264.15 -	267.60	**SYEN Syenite** Light grey, with a light pink hue, coarse , massive syenite. No visible graphite. Upper contact sharp at 40 dca. Lower contact at 50 dca.	N551174	264.15	265.20	1.05	0.18	0.17	
			N551176	265.20	266.40	1.20	0.15	0.12	
			N551177	266.40	267.60	1.20	0.33	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
267.60	277.42	**SYENSL Syenite Sill (unmineralized)** Light grey, to greenish-grey, medium grained massive intrusive unit. Fairly uniform. No visible graphite.	N551178	267.60	269.00	1.40	0.06	0.03	
			N551179	269.00	270.50	1.50	0.03	0.03	
			N551180	270.50	272.00	1.50	0.03	0.03	
			N551181	272.00	273.50	1.50	0.05	0.03	
			N551182	273.50	275.00	1.50	0.03	0.06	
			N551183	275.00	276.40	1.40	0.03	0.07	
			N551185	276.40	277.42	1.02	0.04	0.05	
277.42	292.28	**SYEN Syenite** Light grey with al pink hue, coarse, massive syenite. Very weak graphite overprinting as hairline fracture filling veinlets from 280.65 to 280.8m. No visible graphite from 281m to the rest of this unit. Lower contact sharp at 85 dca.	N551186	277.42	278.40	0.98	0.11	0.16	
			N551187	278.40	279.40	1.00	0.09	0.16	
			N551188	279.40	280.40	1.00	0.28	0.18	
			N551189	280.40	281.40	1.00	0.58	0.24	
			N551190	281.40	282.50	1.10	0.46	0.21	
			N551192	282.50	283.50	1.00	0.09	0.23	
			N551193	283.50	285.00	1.50	0.2	0.17	
			N551194	285.00	286.00	1.00	0.2	0.22	
			N551196	286.00	287.00	1.00	0.24	0.21	
			N551197	287.00	288.00	1.00	0.3	0.21	
			N551198	288.00	289.00	1.00	0.2	0.22	
			N551199	289.00	290.00	1.00	0.16	0.16	
			N551200	290.00	291.10	1.10	0.28	0.31	
			N551201	291.10	292.28	1.18	0.17	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
292.28	342.00	**SYENSL Syenite Sill (unmineralized)** Medium grey to greenish-grey, medium to coarse grained, massive intrusive unit. Fairly uniform. No visible graphite. EOH 342.0m	N551202	292.28	293.10	0.82	0.05	0.07	
			N551203	293.10	294.00	0.90	0.05	0.06	
			N551205	294.00	295.50	1.50	0.04	0.03	
			N551206	295.50	297.00	1.50	0.02	0.03	
			N551207	297.00	298.50	1.50	0.03	0.02	
			N551208	298.50	300.00	1.50	0.06	0.02	
			N551209	300.00	301.50	1.50	0.05	0.05	
			N551210	301.50	303.00	1.50	0.02	0.03	
			N551212	303.00	304.50	1.50	0.08	0.03	
			N551213	304.50	306.00	1.50	0.03	0.03	
			N551214	306.00	307.50	1.50	0.03	0.03	
			N551216	307.50	309.00	1.50	0.06	0.02	
			N551217	309.00	310.50	1.50	0.02	0.03	
			N551218	310.50	312.00	1.50	0.03	0.03	
			N551219	312.00	313.50	1.50	0.03	0.03	
			N551220	313.50	315.00	1.50	0.06	0.02	
			N551221	315.00	316.50	1.50	0.06	0.07	
			N551222	316.50	318.00	1.50	0.04	0.1	
			N551223	318.00	319.50	1.50	0.04	0.03	
			N551225	319.50	321.00	1.50	0.05	0.02	
			N551226	321.00	322.50	1.50	0.07	0.03	
			N551227	322.50	324.00	1.50	0.04	0.05	
			N551228	324.00	325.50	1.50	0.05	0.05	
			N551229	325.50	327.00	1.50	0.08	0.09	
			N551230	327.00	328.50	1.50	0.07	0.03	
			N551232	328.50	330.00	1.50	0.08	0.29	
			N551233	330.00	331.50	1.50	0.06	0.06	
			N551234	331.50	333.00	1.50	0.08	0.06	
			N551236	333.00	334.50	1.50	0.04	0.04	
			N551237	334.50	336.00	1.50	0.03	0.06	
			N551238	336.00	337.50	1.50	0.06	0.04	
			N551239	337.50	339.00	1.50	0.03	0.03	
			N551240	339.00	340.50	1.50	0.02	0.02	
			N551241	340.50	342.00	1.50	0.02	0.03	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	498.00	07/10/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545780	682384			Hand-held GPS		13/10/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	124.40	113.80		-63.10	Chibougamau Diamond Drilling		14/10/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts		Mike Roberts		☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	NQ	441	*Casing Pulled*	*Casing (1)*	57.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To test the West Pipe.	53.88m to 132.57m overprinted syenite, 132.57m to 264.13m graphite rich breccia units seperated mostly by overprinted syenite, 264.13m to 333.00m unmineralized syenite sil l/syenite/porphyritic intermediate dyke, 333.00m to 465.43m graphite rich breccia units seperated but syenite and unmineralized syenite sill unit. The assays from 123.00m to 498.00m averaged 1.21% Cg over 375.00m; within this intersection a higher grade graphite zone from 132.57m to 209.55m averaged 2.16% Cg over 76.98m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
84.00			122.3	113.3	-62.9	-62.9	☑	Reflex EZ	56466	
93.00			121.7	112.7	-62.8	-62.8	☑	Reflex EZ	56344	
96.00			121	112	-62.7	-62.7	☑	Reflex EZ	56340	
99.00			120.9	111.9	-62.7	-62.7	☑	Reflex EZ	56269	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
102.00			120.5	111.5	-62.4	-62.4	☑	Reflex EZ	56328	
105.00			120.1	111.1	-62.3	-62.3	☑	Reflex EZ	56380	
108.00			121.7	112.7	-62.7	-62.7	☑	Reflex EZ	56249	
111.00			121.8	112.8	-62.6	-62.6	☑	Reflex EZ	56209	
114.00			121	112	-62.4	-62.4	☑	Reflex EZ	56334	
117.00			122.2	113.2	-62.5	-62.5	☑	Reflex EZ	56325	
120.00			121	112	-62.4	-62.4	☑	Reflex EZ	56274	
123.00			121.3	112.3	-62.4	-62.4	☑	Reflex EZ	56289	
126.00			122.1	113.1	-62.7	-62.7	☑	Reflex EZ	56336	
132.00			121.7	112.7	-62.6	-62.6	☑	Reflex EZ	56214	
135.00			121.9	112.9	-62.6	-62.6	☑	Reflex EZ	56251	
138.00			120.1	111.1	-62.3	-62.3	☑	Reflex EZ	56263	
141.00			121.3	112.3	-62.2	-62.2	☑	Reflex EZ	56276	
144.00			120.3	111.3	-62.3	-62.3	☑	Reflex EZ	56249	
147.00			122.4	113.4	-62.3	-62.3	☑	Reflex EZ	56316	
150.00			121.6	112.6	-62.1	-62.1	☑	Reflex EZ	56300	
153.00			121.7	112.7	-62.4	-62.4	☑	Reflex EZ	56257	
156.00			120.9	111.9	-62.4	-62.4	☑	Reflex EZ	56282	
159.00			122.4	113.4	-62.6	-62.6	☑	Reflex EZ	56234	
162.00			120.9	111.9	-62.4	-62.4	☑	Reflex EZ	56258	
165.00			120.1	111.1	-62.4	-62.4	☑	Reflex EZ	56269	
168.00			120.1	111.1	-62.2	-62.2	☑	Reflex EZ	56388	
171.00			121.7	112.7	-62.3	-62.3	☑	Reflex EZ	56335	
174.00			123	114	-62.7	-62.7	☑	Reflex EZ	56116	
177.00			122.6	113.6	-62.6	-62.6	☑	Reflex EZ	56108	
180.00			123.2	114.2	-62.3	-62.3	☑	Reflex EZ	56444	
183.00			121	112	-62.1	-62.1	☑	Reflex EZ	56407	
186.00			123.7	114.7	-62.5	-62.5	☑	Reflex EZ	56443	
189.00			122	113	-62.3	-62.3	☑	Reflex EZ	56593	
195.00			121.5	112.5	-62.1	-62.1	☑	Reflex EZ	56210	
198.00			122	113	-62.2	-62.2	☑	Reflex EZ	56280	
201.00			123.2	114.2	-62.4	-62.4	☑	Reflex EZ	56221	
204.00			121.3	112.3	-62	-62	☑	Reflex EZ	56290	
207.00			123.4	114.4	-62.4	-62.4	☑	Reflex EZ	56223	
210.00			123	114	-62.4	-62.4	☑	Reflex EZ	56269	
213.00			122.1	113.1	-62.3	-62.3	☑	Reflex EZ	56321	
216.00			122.3	113.3	-62.2	-62.2	☑	Reflex EZ	56314	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
219.00			122.7	113.7	-62	-62	☑	Reflex EZ	56356	
222.00			121.3	112.3	-62	-62	☑	Reflex EZ	56316	
225.00			123.5	114.5	-62.3	-62.3	☑	Reflex EZ	56334	
228.00			121.2	112.2	-62	-62	☑	Reflex EZ	56234	
231.00			121.4	112.4	-61.8	-61.8	☑	Reflex EZ	56270	
234.00			122.4	113.4	-62	-62	☑	Reflex EZ	56197	
237.00			124.2	115.2	-62.1	-62.1	☑	Reflex EZ	56578	
240.00			121.1	112.1	-61.8	-61.8	☑	Reflex EZ	56268	
243.00			122.1	113.1	-62	-62	☑	Reflex EZ	56309	
246.00			121	112	-61.8	-61.8	☑	Reflex EZ	56289	
249.00			120.9	111.9	-61.7	-61.7	☑	Reflex EZ	56372	
252.00			123.5	114.5	-62	-62	☑	Reflex EZ	56283	
255.00			121.2	112.2	-61.7	-61.7	☑	Reflex EZ	56330	
258.00			122.5	113.5	-61.9	-61.9	☑	Reflex EZ	56463	
261.00			120.9	111.9	-61.6	-61.6	☑	Reflex EZ	56344	
264.00			122.9	113.9	-61.7	-61.7	☑	Reflex EZ	56376	
267.00			121	112	-61.7	-61.7	☑	Reflex EZ	56360	
270.00			123.2	114.2	-61.9	-61.9	☑	Reflex EZ	56231	
273.00			122.8	113.8	-61.6	-61.6	☑	Reflex EZ	56190	
276.00			120.9	111.9	-61.5	-61.5	☑	Reflex EZ	56415	
279.00			123.5	114.5	-61.9	-61.9	☑	Reflex EZ	55834	
282.00			122.5	113.5	-61.8	-61.8	☑	Reflex EZ	55872	
285.00			121.1	112.1	-61.5	-61.5	☑	Reflex EZ	56024	
288.00			122.6	113.6	-61.6	-61.6	☑	Reflex EZ	55940	
291.00			123.8	114.8	-61.8	-61.8	☑	Reflex EZ	56080	
294.00			121.9	112.9	-61.5	-61.5	☑	Reflex EZ	56174	
297.00			123.2	114.2	-61.8	-61.8	☑	Reflex EZ	56225	
300.00			123.1	114.1	-61.8	-61.8	☑	Reflex EZ	56307	
303.00			123.5	114.5	-61.6	-61.6	☑	Reflex EZ	56087	
306.00			123.7	114.7	-61.8	-61.8	☑	Reflex EZ	56087	
309.00			124.1	115.1	-61.5	-61.5	☑	Reflex EZ	56287	
312.00			123.4	114.4	-61.6	-61.6	☑	Reflex EZ	56184	
315.00			123.8	114.8	-61.5	-61.5	☑	Reflex EZ	56296	
318.00			121.8	112.8	-61.4	-61.4	☑	Reflex EZ	56161	
321.00			122.3	113.3	-61.4	-61.4	☑	Reflex EZ	55921	
324.00			123.6	114.6	-61.7	-61.7	☑	Reflex EZ	56034	
327.00			121.7	112.7	-61.3	-61.3	☑	Reflex EZ	56253	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
330.00			123.2	114.2	-61.6	-61.6	☑	Reflex EZ	56221	
333.00			122.9	113.9	-61.6	-61.6	☑	Reflex EZ	56196	
336.00			121.7	112.7	-61.3	-61.3	☑	Reflex EZ	56993	
339.00			121.1	112.1	-61.5	-61.5	☑	Reflex EZ	56233	
342.00			122.6	113.6	-61.6	-61.6	☑	Reflex EZ	56201	
345.00			122.5	113.5	-61.5	-61.5	☑	Reflex EZ	56274	
348.00			121.9	112.9	-61.6	-61.6	☑	Reflex EZ	56334	
351.00			123	114	-61.6	-61.6	☑	Reflex EZ	56250	
354.00			120.9	111.9	-61.4	-61.4	☑	Reflex EZ	56234	
357.00			121	112	-61.3	-61.3	☑	Reflex EZ	56252	
360.00			120.8	111.8	-61.3	-61.3	☑	Reflex EZ	56127	
363.00			123	114	-61.5	-61.5	☑	Reflex EZ	56127	
366.00			121.3	112.3	-61.1	-61.1	☑	Reflex EZ	55819	
369.00			120.4	111.4	-61.1	-61.1	☑	Reflex EZ	56338	
372.00			122.9	113.9	-61.4	-61.4	☑	Reflex EZ	56423	
375.00			122	113	-61.4	-61.4	☑	Reflex EZ	56231	
378.00			122.7	113.7	-61.4	-61.4	☑	Reflex EZ	56308	
381.00			122.6	113.6	-61.4	-61.4	☑	Reflex EZ	56255	
384.00			121	112	-61	-61	☑	Reflex EZ	56094	
387.00			121.3	112.3	-61.2	-61.2	☑	Reflex EZ	56241	
390.00			120.9	111.9	-61.2	-61.2	☑	Reflex EZ	56183	
393.00			121.2	112.2	-61	-61	☑	Reflex EZ	56346	
396.00			121.1	112.1	-61	-61	☑	Reflex EZ	56280	
399.00			122.2	113.2	-61.3	-61.3	☑	Reflex EZ	56317	
402.00			122.5	113.5	-61.4	-61.4	☑	Reflex EZ	56383	
405.00			120.4	111.4	-61	-61	☑	Reflex EZ	56279	
408.00			121.2	112.2	-61.1	-61.1	☑	Reflex EZ	56209	
411.00			120.8	111.8	-61.2	-61.2	☑	Reflex EZ	56425	
414.00			123.2	114.2	-61.3	-61.3	☑	Reflex EZ	56149	
417.00			124.3	115.3	-61.3	-61.3	☑	Reflex EZ	55045	
420.00			123.3	114.3	-61.2	-61.2	☑	Reflex EZ	57802	
423.00			122.5	113.5	-61.1	-61.1	☑	Reflex EZ	56129	
426.00			123.2	114.2	-61.3	-61.3	☑	Reflex EZ	56313	
429.00			122.6	113.6	-61.3	-61.3	☑	Reflex EZ	56322	
438.00			123.5	114.5	-61.1	-61.1	☑	Reflex EZ	56294	
441.00			122.2	113.2	-61.2	-61.2	☑	Reflex EZ	56298	
444.00			121.8	112.8	-61	-61	☑	Reflex EZ	56188	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
447.00			122.8	113.8	-61.3	-61.3	☑	Reflex EZ	56232	
450.00			121.2	112.2	-61.1	-61.1	☑	Reflex EZ	56345	
453.00			121.7	112.7	-61	-61	☑	Reflex EZ	56425	
456.00			121.2	112.2	-60.9	-60.9	☑	Reflex EZ	56363	
459.00			124	115	-61.3	-61.3	☑	Reflex EZ	56403	
462.00			123.3	114.3	-61.2	-61.2	☑	Reflex EZ	56279	
465.00			123.2	114.2	-61.3	-61.3	☑	Reflex EZ	56441	
471.00			123	114	-61.2	-61.2	☑	Reflex EZ	56266	
474.00			120.9	111.9	-60.9	-60.9	☑	Reflex EZ	56337	
477.00			120.9	111.9	-60.8	-60.8	☑	Reflex EZ	56194	
480.00			120.9	111.9	-60.8	-60.8	☑	Reflex EZ	56348	
483.00			122.8	113.8	-60.8	-60.8	☑	Reflex EZ	56347	
486.00			120.7	111.7	-60.8	-60.8	☑	Reflex EZ	56266	
489.00			122.7	113.7	-61	-61	☑	Reflex EZ	56284	
492.00			122.8	113.8	-61	-61	☑	Reflex EZ	56334	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	52.00	**OB Overburden**							
52.00	53.88	**SED Sediment** Limestone. Broken and blocky.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
53.88	110.92	**SYENOP Syenite with Graphitic Overprinting** Light grey to blue with orange orthoclase tinge. Unit is massive and very hard. Unit has very minor local fracture filling graphite and small graphite breccia. 64.55 to 64.62 Graphite breccia at 19 dca. 73.64 to 73.95 Graphite breccia at 29 dca. 83.12 to 83.33 Chlorite biotite alteration at 105 dca. 87.51 to 87.52 mafic dyke at 42 dca. Lower contact at 30 dca.	Q158263	53.88	55.00	1.12	0.08	0.02	
			Q158265	55.00	56.00	1.00	0.07	0.07	
			Q158266	56.00	57.00	1.00	0.11	0.03	
			Q158267	57.00	58.00	1.00	0.08	0.04	
			Q158268	58.00	59.00	1.00	0.12	0.05	
			Q158269	59.00	60.00	1.00	0.31	0.03	
			Q158270	60.00	61.00	1.00	0.16	0.07	
			Q158271	60.00	61.00	1.00	0.18	0.07	
			Q158272	61.00	62.00	1.00	0.1	0.07	
			Q158273	62.00	63.00	1.00	0.19	0.13	
			Q158274	63.00	64.00	1.00	0.08	0.06	
			Q158276	64.00	65.00	1.00	0.58	0.1	2.64
			Q158277	65.00	66.00	1.00	0.06	0.03	2.63
			Q158278	66.00	67.00	1.00	0.04	0.04	2.64
			Q158279	67.00	68.00	1.00	0.1	0.08	2.64
			Q158280	68.00	69.00	1.00	0.19	0.05	2.63
			Q158281	69.00	70.00	1.00	0.1	0.07	
			Q158282	70.00	71.00	1.00	0.16	0.08	
			Q158283	71.00	72.00	1.00	0.13	0.1	
			Q158285	72.00	73.00	1.00	0.11	0.09	
			Q158286	73.00	73.64	0.64	0.31	0.12	
			Q158287	73.64	74.00	0.36	3.13	0.11	
			Q158288	74.00	75.00	1.00	0.3	0.17	
			Q158289	75.00	76.00	1.00	0.4	0.1	
			Q158291	76.00	77.00	1.00	1.22	0.11	
			Q158290	76.00	77.00	1.00	1.02	0.06	
			Q158292	77.00	78.00	1.00	0.06	0.06	
			Q158293	78.00	79.00	1.00	0.04	0.05	
			Q158294	79.00	80.00	1.00	0.21	0.09	
			Q158296	80.00	81.00	1.00	0.1	0.09	
			Q158297	81.00	82.00	1.00	0.06	0.03	
			Q158298	82.00	83.00	1.00	0.11	0.07	
			Q158299	83.00	84.00	1.00	0.09	0.05	
			Q158300	84.00	85.00	1.00	0.01	0.03	
			Q158301	85.00	86.00	1.00	0.03	0.03	
			Q158302	86.00	87.00	1.00	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q158303	87.00	88.00	1.00	0.06	0.05	
			Q158305	88.00	89.00	1.00	0.02	0.04	
			Q158306	89.00	90.00	1.00	0.18	0.08	
			Q158307	90.00	91.00	1.00	0.02	0.06	
			Q158308	91.00	92.00	1.00	0.08	0.16	
			Q158309	92.00	93.00	1.00	0.06	0.05	
			Q158310	93.00	94.00	1.00	0.24	0.17	
			Q158311	93.00	94.00	1.00	0.21	0.14	
			Q158312	94.00	95.00	1.00	0.22	0.14	
			Q158313	95.00	96.00	1.00	0.12	0.05	
			Q158314	96.00	97.00	1.00	0.07	0.07	
			Q158316	97.00	98.00	1.00	0.02	0.05	
			Q158317	98.00	99.00	1.00	0.15	0.08	
			Q158318	99.00	100.00	1.00	0.03	0.05	
			Q158319	100.00	101.00	1.00	0.11	0.04	
			Q158320	101.00	102.00	1.00	0.07	0.05	
			Q158321	102.00	103.00	1.00	0.08	0.03	
			Q158322	103.00	104.00	1.00	0.29	0.2	
			Q158323	104.00	105.00	1.00	0.45	0.16	
			Q158325	105.00	106.00	1.00	0.24	0.21	
			Q158326	106.00	107.00	1.00	0.24	0.22	
			Q158327	107.00	108.00	1.00	0.18	0.19	
			Q158328	108.00	109.00	1.00	0.18	0.17	
			Q158329	109.00	110.00	1.00	0.16	0.15	
			Q158331	110.00	110.92	0.92	0.31	0.17	
			Q158330	110.00	110.92	0.92	0.3	0.18	
110.92	114.22	**IDP Intermediate Dike (Porphyritic)**							
		Dark green with lighter bluish <1cm angular clasts. Massive and moderately hard. Lower contact fault gouge at 26 dca.	Q158332	110.92	112.00	1.08	0.1	0.19	
			Q158333	112.00	113.00	1.00	0.08	0.15	
			Q158334	113.00	114.22	1.22	0.08	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
114.22	132.57	**SYENOP Syenite with Graphitic Overprinting** Light grey to bluish with orange orthoclase tinge. Massive and very hard. 132.01 to 132.22 Chlorite alteration at 65 dca. Lower contact sharp at 61 dca.	Q158336	114.22	115.00	0.78	0.06	0.09	
			Q158337	115.00	116.00	1.00	0.06	0.11	
			Q158338	116.00	117.00	1.00	0.09	0.14	
			Q158339	117.00	118.00	1.00	0.11	0.14	
			Q158340	118.00	119.00	1.00	0.09	0.14	
			Q158341	119.00	120.00	1.00	0.21	0.26	
			Q158342	120.00	121.00	1.00	0.1	0.08	
			Q158343	121.00	122.00	1.00	0.14	0.19	
			Q158345	122.00	123.00	1.00	0.12	0.21	
			Q158346	123.00	124.00	1.00	0.47	0.22	
			Q158347	124.00	125.00	1.00	0.13	0.24	
			Q158348	125.00	126.00	1.00	0.08	0.13	
			Q158349	126.00	127.00	1.00	0.09	0.13	
			Q158350	127.00	128.00	1.00	0.17	0.24	
			Q158351	127.00	128.00	1.00	0.13	0.25	
			Q158352	128.00	129.00	1.00	0.34	0.22	
			Q158353	129.00	130.00	1.00	0.38	0.23	
			Q158354	130.00	131.00	1.00	0.45	0.21	
			Q158356	131.00	132.00	1.00	0.24	0.17	
			Q158357	132.00	132.57	0.57	1	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
132.57	159.30	**GRPBX Graphitic Breccia** Dark grey to black with 1-10cm overprinted gneiss fragments in a graphitic matrix. 149.70 to 150.92 Very strongly fractured and faulted. 150.89 to 150.92 3cm fault gouge mud at 55 dca. Lower contact at 125 dca.	Q158358	132.57	133.00	0.43	10.85	0.23	
			Q158359	133.00	134.00	1.00	12.1	0.32	2.62
			Q158360	134.00	135.00	1.00	5.88	0.35	2.61
			Q158361	135.00	136.00	1.00	2.93	0.32	2.61
			Q158362	136.00	137.00	1.00	6.7	0.43	2.62
			Q158363	137.00	138.00	1.00	4.78	0.32	2.8
			Q158365	138.00	139.00	1.00	4.71	0.48	
			Q158366	139.00	140.00	1.00	4.45	0.23	
			Q158367	140.00	141.00	1.00	3.95	0.44	
			Q158368	141.00	142.00	1.00	4.7	0.38	
			Q158369	142.00	143.00	1.00	3.47	0.31	
			Q158370	143.00	144.00	1.00	4.34	0.27	
			Q158371	143.00	144.00	1.00	4.61	0.27	
			Q158372	144.00	145.00	1.00	3.96	0.22	
			Q158373	145.00	146.00	1.00	2.84	0.12	
			Q158374	146.00	147.00	1.00	2.6	0.16	
			Q158376	147.00	148.00	1.00	2.22	0.12	
			Q158377	148.00	149.00	1.00	1.36	0.08	
			Q158378	149.00	150.00	1.00	1.09	0.09	
			Q158379	150.00	151.00	1.00	1.85	0.11	
			Q158380	151.00	152.00	1.00	1.45	0.16	
			Q158381	152.00	153.00	1.00	1.23	0.11	
			Q158382	153.00	154.00	1.00	1.94	0.24	
			Q158383	154.00	155.00	1.00	3.15	0.23	
			Q158385	155.00	156.00	1.00	1.11	0.22	
			Q158386	156.00	157.00	1.00	1.27	0.07	
			Q158387	157.00	158.00	1.00	0.95	0.13	
			Q158388	158.00	159.00	1.00	1.18	0.04	
			Q158389	159.00	159.30	0.30	0.73	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
159.30	165.17	**SYENOP Syenite with Graphitic Overprinting** Dark grey to bluish with strong orange tinge of orthoclase. Unit is a gneiss with some very minor graphite breccia and fracture filling. Massive and very hard. 160.50 to 160.85 Crosscutting Porphyritic Intermediate Dyke at 25 dca. Lower contact at 95 dca.	Q158391	159.30	160.00	0.70	0.3	0.05	
			Q158390	159.30	160.00	0.70	0.36	0.04	
			Q158392	160.00	160.50	0.50	0.21	0.03	
			Q158393	160.50	160.85	0.35	0.04	0.05	
			Q158394	160.85	162.00	1.15	0.39	0.1	
			Q158396	162.00	163.00	1.00	0.42	0.11	
			Q158397	163.00	164.00	1.00	0.23	0.09	
			Q158398	164.00	165.17	1.17	0.38	0.08	
165.17	166.60	**GRPBX Graphitic Breccia** Dark grey to black with 1-10cm overprinted gneiss fragments in a graphitic matrix. Lower contact at 167 dca.	Q158399	165.17	166.00	0.83	1.86	0.16	
			Q158400	166.00	166.60	0.60	2.87	0.15	
166.60	170.90	**IDP Intermediate Dike (Porphyritic)** Dark green with lighter bluish <1cm angular clasts. Massive and moderately hard. Lower contact crosscutting at 170 dca.	Q158401	166.60	168.00	1.40	0.03	0.14	
			Q158402	168.00	169.00	1.00	0.1	0.18	
			Q158403	169.00	170.00	1.00	0.1	0.15	
			Q158405	170.00	170.90	0.90	0.06	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
170.90	182.70	**GRPBX Graphitic Breccia** Dark grey to black with 1-10cm overprinted gneiss fragments in a graphitic matrix. 174.81 to 175.21 Intermediate to mafic dyke at 42 dca. 181.97 to 182.42 Weakly sheared syenite at 41 dca. 181.97 to 182.13m Chloritic upper contact at 39 dca. Lower contact sharp at 111dca.	Q158406	170.90	172.00	1.10	0.56	0.06	
			Q158407	172.00	173.00	1.00	1.48	0.22	
			Q158408	173.00	174.00	1.00	1.66	0.26	
			Q158409	174.00	174.81	0.81	0.42	0.11	
			Q158411	174.81	175.21	0.40	0.06	0.09	
			Q158410	174.81	175.21	0.40	0.04	0.1	
			Q158412	175.21	176.00	0.79	1.74	0.26	
			Q158413	176.00	177.00	1.00	3.12	0.32	
			Q158414	177.00	178.00	1.00	0.49	0.09	
			Q158416	178.00	179.00	1.00	0.86	0.41	
			Q158417	179.00	180.00	1.00	1.61	0.19	
			Q158418	180.00	181.00	1.00	2.44	0.23	
			Q158419	181.00	181.97	0.97	2.29	0.07	
			Q158420	181.97	182.42	0.45	0.18	0.05	
			Q158421	182.42	182.70	0.28	5.14	0.08	
182.70	187.11	**SYENOP Syenite with Graphitic Overprinting** Light grey with slight orange tinge. Massive and very hard. Minor fracture filling graphite. Lower contact gradational at 58 dca.	Q158422	182.70	183.00	0.30	0.39	0.02	
			Q158423	183.00	184.00	1.00	0.2	0.11	
			Q158425	184.00	185.00	1.00	0.17	0.07	
			Q158426	185.00	186.00	1.00	0.1	0.04	
			Q158427	186.00	187.11	1.11	0.31	0.07	
187.11	188.19	**GRPBX Graphitic Breccia** Light grey to black with 1-10cm overprinted gneiss fragments in a graphitic matrix. Lower contact sharp at 107 dca.	Q158428	187.11	188.19	1.08	4.02	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
188.19	191.43	**SYENOP Syenite with Graphitic Overprinting** Light grey. Unit is well foliated and or weakly sheared. 188.45 shear contact at 151 dca. 190.03 to 190.34m Graphitic breccia Upper Contact at 90, Lower contact at 25 dca. Lower contact at 62 dca.	Q158429	188.19	189.00	0.81	0.56	0.06	
			Q158431	189.00	190.03	1.03	0.39	0.1	
			Q158430	189.00	190.03	1.03	0.34	0.11	
			Q158432	190.03	190.34	0.31	8.16	0.09	
			Q158433	190.34	191.00	0.66	0.51	0.09	
			Q158434	191.00	191.43	0.43	0.65	0.1	
191.43	192.65	**GRPBX Graphitic Breccia** Light grey to black with 1-10cm overprinted gneiss fragments in a graphitic matrix. Lower contact at 35 dca.	Q158436	191.43	192.00	0.57	2.59	0.11	
			Q158437	192.00	192.65	0.65	3.15	0.34	
192.65	194.65	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 192.65 to 193.69m Chlorite biotite alteration at 49 dca. Lower contact irregular at 19 dca.	Q158438	192.65	193.69	1.04	1.05	0.06	
			Q158439	193.69	194.65	0.96	0.63	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
194.65 -	209.55	**GRPBX Graphitic Breccia** Dark grey to black with 1-5cm overprinted gneiss fragments in a graphitic matrix. 194.65 to 197.59 Strongly fractured and high grade. Lower contact at 73 dca.	Q158440	194.65	195.00	0.35	5.71	0.27	
			Q158441	195.00	196.00	1.00	5.11	0.32	
			Q158442	196.00	197.00	1.00	7.24	0.23	
			Q158443	197.00	197.59	0.59	8.45	0.22	
			Q158445	197.59	198.00	0.41	0.62	0.17	
			Q158446	198.00	199.00	1.00	0.4	0.21	
			Q158447	199.00	200.00	1.00	0.31	0.2	
			Q158448	200.00	201.00	1.00	0.54	0.15	
			Q158449	201.00	202.00	1.00	2.25	0.16	
			Q158451	202.00	203.00	1.00	0.86	0.13	
			Q158450	202.00	203.00	1.00	0.86	0.14	
			Q158452	203.00	204.00	1.00	1.65	0.19	
			Q158453	204.00	205.00	1.00	5.81	0.38	
			Q158454	205.00	206.00	1.00	0.42	0.12	
			Q158456	206.00	207.00	1.00	2.2	0.11	
			Q158457	207.00	208.00	1.00	0.25	0.1	
			Q158458	208.00	209.00	1.00	0.52	0.25	
			Q158459	209.00	209.55	0.55	4.7	0.25	
209.55 -	212.01	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 121 dca.	Q158460	209.55	210.00	0.45	1.51	0.53	
			Q158461	210.00	211.00	1.00	0.97	0.37	
			Q158462	211.00	212.01	1.01	0.31	0.11	
212.01 -	213.82	**IDP Intermediate Dike (Porphyritic)** Light grey with red tinge when wet. Massive and very hard intrusive unit 1-3mm feldspar phenocrysts or fragments? Lower contact at 42 dca.	Q158463	212.01	213.00	0.99	0.03	0.06	
			Q158465	213.00	213.82	0.82	0.05	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
213.82	221.32	**SYENSL Syenite Sill (unmineralized)** Light green. Medium to coarse grained. Massive and hard. Lower contact at 118 dca.	Q158466	213.82	215.00	1.18	0.03	0.02	
			Q158467	215.00	216.00	1.00	0.02	0.03	
			Q158468	216.00	217.00	1.00	0.04	0.03	
			Q158469	217.00	218.00	1.00	0.09	0.04	
			Q158471	218.00	219.00	1.00	0.05	0.11	
			Q158470	218.00	219.00	1.00	0.04	0.13	
			Q158472	219.00	220.00	1.00	0.05	0.15	
			Q158473	220.00	221.32	1.32	0.22	0.19	
221.32	223.86	**GRPBX Graphitic Breccia** Dark grey to black with 1-5cm overprinted gneiss fragments in a graphitic matrix. 222.00 to 222.86 Dark green mafic dyke at 135 dca. Lower contact at 131 dca.	Q158474	221.32	222.00	0.68	4.17	0.16	
			Q158476	222.00	222.86	0.86	0.16	0.15	
			Q158477	222.86	223.86	1.00	3.26	0.22	
223.86	226.04	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 69 dca.	Q158478	223.86	225.00	1.14	0.1	0.11	
			Q158479	225.00	226.04	1.04	0.16	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
226.04	247.40	**GRPBX Graphitic Breccia** Dark grey to black with 1-5cm overprinted gneiss fragments in a graphitic matrix. 236.18 TO 236.22 Dyke at 55 dca. Lower contact at 113 dca.	Q158480	226.04	227.00	0.96	1.82	0.16	
			Q158481	227.00	228.00	1.00	1	0.21	
			Q158482	228.00	229.00	1.00	1.63	0.4	
			Q158483	229.00	230.00	1.00	1.84	0.28	
			Q158485	230.00	231.00	1.00	5.49	0.26	
			Q158486	231.00	232.00	1.00	4.04	0.31	
			Q158487	232.00	233.00	1.00	1.64	0.31	
			Q158488	233.00	234.00	1.00	5.48	0.29	
			Q158489	234.00	235.00	1.00	3.64	0.19	
			Q158491	235.00	236.00	1.00	0.5	0.24	
			Q158490	235.00	236.00	1.00	0.49	0.23	
			Q158492	236.00	237.00	1.00	0.56	0.26	
			Q158493	237.00	238.00	1.00	3.78	0.38	
			Q158494	238.00	239.00	1.00	8.99	0.7	
			Q158496	239.00	240.00	1.00	2.74	0.53	
			Q158497	240.00	241.00	1.00	1.29	0.18	
			Q158498	241.00	242.00	1.00	2.04	0.33	
			Q158499	242.00	243.00	1.00	1.36	0.32	
			Q158500	243.00	244.00	1.00	0.11	0.16	
			Q158501	244.00	245.00	1.00	0.17	0.15	
			Q158502	245.00	246.00	1.00	0.97	0.22	
			Q158503	246.00	247.00	1.00	1.32	0.28	
			Q158505	247.00	247.40	0.40	3.12	0.38	
247.40	249.86	**SYENSL Syenite Sill (unmineralized)** Light green. Medium to coarse grained. Massive and hard. Lower contact at 109 dca.	Q158506	247.40	248.00	0.60	0.04	0.41	
			Q158507	248.00	249.00	1.00	0.02	0.04	
			Q158508	249.00	249.86	0.86	0.03	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
249.86	256.56	**GRPBX Graphitic Breccia** Dark grey to black with 1-5cm overprinted gneiss fragments in a graphitic matrix. Lower contact at 124 dca.	Q158509	249.86	251.00	1.14	2.12	0.33	
			Q158511	251.00	252.00	1.00	2.2	0.32	
			Q158510	251.00	252.00	1.00	2.22	0.31	
			Q158512	252.00	253.00	1.00	1.59	0.24	
			Q158513	253.00	254.00	1.00	2.91	0.26	
			Q158514	254.00	255.00	1.00	1.47	0.32	
			Q158516	255.00	256.00	1.00	3.78	0.4	
			Q158517	256.00	256.66	0.66	0.19	0.22	
256.56	259.74	**GRDR Granodiorite** Light grey with orange tinge. Medium grained with 40% quartz and a dioritic texture. Possible quartz diorite. Massive and very hard. Lower contact at 35 dca.	Q158518	256.66	258.00	1.34	0.1	0.13	
			Q158519	258.00	259.00	1.00	0.11	0.05	
			Q158520	259.00	259.74	0.74	0.51	0.24	
259.74	264.13	**GRPBX Graphitic Breccia** Dark grey to black. 1-5cm overprinted gneiss fragments in a graphitic matrix. 30% syenite gneiss. 261.10 to 261.17 gneiss at 71 dca. 261.25 to 261.47 chlorite biotite alteration. 261.47 to 261.51 gneiss at 58 dca. 261.51 to 261.75 Mafic dyke at 61 dca. Lower contact at 31 dca.	Q158521	259.74	261.00	1.26	4.5	0.66	
			Q158522	261.00	262.00	1.00	3.62	0.86	
			Q158523	262.00	263.00	1.00	3.23	0.44	
			Q158525	263.00	264.13	1.13	1.85	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
264.13	321.26	**SYENSL Syenite Sill (unmineralized)** Light to medium green. Massive and hard. Medium to coarse grained. Typical sill unit for the east pipe. Lower contact at 83 dca gradationally.	Q158526	264.13	265.50	1.37	0.04	0.02	
			Q158527	265.50	267.00	1.50	0.12	0.02	
			Q158528	267.00	268.50	1.50	0.13	0.01	
			Q158529	268.50	270.00	1.50	0.08	0.02	
			Q158530	270.00	271.50	1.50	0.1	0.02	
			Q158531	270.00	271.50	1.50	0.13	0.02	
			Q158532	271.50	273.00	1.50	0.07	0.03	
			Q158533	273.00	274.50	1.50	0.11	0.02	
			Q158534	274.50	276.00	1.50	0.14	0.04	
			Q158536	276.00	277.50	1.50	0.06	0.02	
			Q158537	277.50	279.00	1.50	0.02	0.03	
			Q158538	279.00	280.50	1.50	0.07	0.05	
			Q158539	280.50	282.00	1.50	0.12	0.03	
			Q158540	282.00	283.50	1.50	0.16	0.08	
			Q158541	283.50	285.00	1.50	0.07	0.07	
			Q158542	285.00	286.50	1.50	0.08	0.13	
			Q158543	286.50	288.00	1.50	0.04	0.03	
			Q158545	288.00	289.50	1.50	0.05	0.03	
			Q158546	289.50	291.00	1.50	0.06	0.01	
			Q158547	291.00	292.50	1.50	0.05	0.03	
			Q158548	292.50	294.00	1.50	0.04	0.04	
			Q158549	294.00	295.50	1.50	0.03	0.01	
			Q158550	295.50	297.00	1.50	0.04	0.03	
			Q158551	295.50	297.00	1.50	0.05	0.03	
			Q158552	297.00	298.50	1.50	0.13	0.03	
			Q158553	298.50	300.00	1.50	0.04	0.02	
			Q158554	300.00	301.50	1.50	0.02	0.05	
			Q158556	301.50	303.00	1.50	0.02	0.02	
			Q158557	303.00	304.50	1.50	0.02	0.03	
			Q158558	304.50	306.00	1.50	0.07	0.04	
			Q158559	306.00	307.50	1.50	0.03	0.05	
			Q158560	307.50	309.00	1.50	0.06	0.03	
			Q158561	309.00	310.50	1.50	0.11	0.06	
			Q158562	310.50	312.00	1.50	0.08	0.06	
			Q158563	312.00	313.50	1.50	0.07	0.03	
			Q158565	313.50	315.00	1.50	0.04	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q158566	315.00	316.50	1.50	0.08	0.63	
			Q158567	316.50	318.00	1.50	0.08	0.07	
			Q158568	318.00	319.00	1.00	0.06	0.2	
			Q158569	319.00	320.00	1.00	0.07	0.03	
			Q158571	320.00	321.26	1.26	0.15	0.06	
			Q158570	320.00	321.26	1.26	0.21	0.05	
321.26	323.61	**IDP Intermediate Dike (Porphyritic)**							
		Dark green to red and very red when wet.	Q158572	321.26	322.00	0.74	0.08	0.06	
		Medium to coarse grained. Massive with round phenocrysts of dark mineral.	Q158573	322.00	323.00	1.00	0.09	0.22	
		Possibly a diorite with less quartz but has a salt and pepper texture.	Q158574	323.00	323.61	0.61	0.06	0.09	
		Lower contact irregular at 153 dca.							
323.61	329.66	**SYENSL Syenite Sill (unmineralized)**							
		As previous unit and likely the same unit with the Porphyritic Intermediate Dyke intruding the unit.	Q158576	323.61	325.00	1.39	0.06	0.2	
		Light to medium green. Massive and hard. Medium to coarse grained.	Q158577	325.00	326.00	1.00	0.09	0.06	
		Typical sill unit for the east pipe.	Q158578	326.00	327.00	1.00	0.05	0.08	
		Lower contact at 57 dca.	Q158579	327.00	328.00	1.00	0.07	0.1	
			Q158580	328.00	329.00	1.00	0.1	0.54	
			Q158581	329.00	329.66	0.66	0.07	0.24	
329.66	333.00	**SYEN Syenite**							
		Light grey to buff with orange orthoclase tinge.	Q158582	329.66	331.00	1.34	0.3	0.19	
		Massive and very hard. Gneiss.	Q158583	331.00	332.00	1.00	0.25	0.11	
		Lower contact at 90 dca.	Q158585	332.00	333.00	1.00	0.31	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
333.00	337.56	**GRPBX Graphitic Breccia** 50% breccia crosscutting syenite gneiss. Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. Light grey to buff with orange orthoclase tinge. Massive and very hard. Gneiss. Lower contact sharp at 133 dca.	Q158586	333.00	334.00	1.00	1.42	0.16	
			Q158587	334.00	335.00	1.00	1.65	0.15	
			Q158588	335.00	336.00	1.00	1.98	0.29	
			Q158589	336.00	337.00	1.00	0.8	0.17	
			Q158591	337.00	337.56	0.56	0.55	0.24	
			Q158590	337.00	337.56	0.56	0.6	0.23	
337.56	339.30	**SYEN Syenite** As previous syenite gneiss. Light grey to buff with orange orthoclase tinge. Massive and very hard. Gneiss. Lower contact sharp at 50 dca.	Q158592	337.56	338.50	0.94	0.38	0.08	
			Q158593	338.50	339.30	0.80	0.26	0.04	
339.30	340.14	**DIOR Diorite** Light and dark green. 50/50 dioritic texture of mafic intrusive rock. Massive and hard. Lower contact at 50 dca.	Q158594	339.30	340.14	0.84	0.01	0.03	
340.14	341.90	**SYENSL Syenite Sill (unmineralized)** Light to darker green. Massive and hard. Medium to coarse grained. 1cm chill margin lower contact at 63 dca.	Q158596	340.14	341.00	0.86	0.06	0.14	
			Q158597	341.00	341.90	0.90	0.04	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
341.90	343.47	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. Lower contact sharp at 139 dca.	Q158598	341.90	343.00	1.10	4.45	0.36	
			Q158599	343.00	343.47	0.47	4.65	1.26	
343.47	345.46	**SYEN Syenite** As previous gneiss unit. Light grey to buff with orange orthoclase tinge. Massive and very hard. Gneiss. Lower contact at 107 dca.	Q158600	343.47	344.00	0.53	0.51	0.15	
			Q158601	344.00	345.46	1.46	0.24	0.09	
345.46	347.27	**SYENSL Syenite Sill (unmineralized)** Light to darker green. Massive and hard. Medium to coarse grained. 345.46 to 345.87 Diorite at 44 dca. Lower contact at 52 dca.	Q158602	345.46	345.87	0.41	0.03	0.04	
			Q158603	345.87	347.27	1.40	0.02	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
347.27	358.18	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. 351.56 to 352.54 95% syenite at 75 to 105 dca. 358.12 to 358.18 6cm chill margin lower contact at 41 dca.	Q158605	347.27	348.00	0.73	2.32	0.14	
			Q158606	348.00	349.00	1.00	0.84	0.23	
			Q158607	349.00	350.00	1.00	3.04	0.45	
			Q158608	350.00	351.00	1.00	4.93	0.27	
			Q158609	351.00	351.56	0.56	4.79	0.33	
			Q158611	351.56	352.54	0.98	0.47	0.12	
			Q158610	351.56	352.54	0.98	0.48	0.15	
			Q158612	352.54	353.00	0.46	4.85	0.22	
			Q158613	353.00	354.00	1.00	4.26	0.3	
			Q158614	354.00	355.00	1.00	3.78	0.2	
			Q158616	355.00	356.00	1.00	3.81	0.22	
			Q158617	356.00	357.00	1.00	5.23	0.21	
			Q158618	357.00	358.18	1.18	4.88	0.26	
358.18	361.09	**SYENSL Syenite Sill (unmineralized)** Light to darker green. Massive and hard. Medium to coarse grained. Lower contact at 48 dca.	Q158619	358.18	359.00	0.82	0.04	0.05	
			Q158620	359.00	360.00	1.00	0.02	0.09	
			Q158621	360.00	361.09	1.09	0.05	0.08	
361.09	364.85	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. Lower contact at 45 dca.	Q158622	361.09	362.00	0.91	4.04	0.27	
			Q158623	362.00	363.00	1.00	3.45	0.19	
			Q158625	363.00	364.00	1.00	3.1	0.23	
			Q158626	364.00	364.85	0.85	3.65	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
364.85	366.06	**SYENSL Syenite Sill (unmineralized)** Light to darker green. Massive and hard. Medium to coarse grained. Lower contact at 55 dca.	Q158627	364.85	366.06	1.21	0.01	0.06	
366.06	371.00	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. 366.80 to 367.20 Diorite dyke at 33 to 51 dca. 368.39 to 368.48 Dyke at 43 dca. 370.51 to 370.54 Dyke at 145 dca. Lower contact at 45 dca.	Q158628	366.06	366.80	0.74	2.75	0.36	
			Q158629	366.80	367.20	0.40	0.23	0.26	
			Q158631	367.20	368.00	0.80	4.94	0.23	
			Q158630	367.20	368.00	0.80	4.79	0.23	
			Q158632	368.00	369.00	1.00	5.06	0.32	
			Q158633	369.00	370.00	1.00	4.47	0.41	
			Q158634	370.00	371.00	1.00	5.82	0.41	
371.00	376.94	**SYENSL Syenite Sill (unmineralized)** Light to darker green. Massive and hard. Medium to coarse grained. Lower contact at 34 dca.	Q158636	371.00	372.00	1.00	0.05	0.11	
			Q158637	372.00	373.00	1.00	0.02	0.09	
			Q158638	373.00	374.00	1.00	0.02	0.06	
			Q158639	374.00	375.00	1.00	0.01	0.04	
			Q158640	375.00	376.00	1.00	0.02	0.04	
			Q158641	376.00	376.94	0.94	0.05	0.09	
376.94	380.69	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. Lower contact at 59 dca.	Q158642	376.94	378.00	1.06	4.4	0.47	
			Q158643	378.00	379.00	1.00	5	0.34	
			Q158645	379.00	380.00	1.00	3.74	0.36	
			Q158646	380.00	380.69	0.69	2.64	0.42	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
380.69	393.16	**SYENOP Syenite with Graphitic Overprinting** Light grey to buff with orange orthoclase tinge. Massive and very hard. Gneiss. Unit is a mixture of quartz diorite, syenite gneiss and unmineralized syenite. 389.13 to 389.15 Orthoclase band at 47 dca. 389.39 to 389.48 Chlorite biotite alteration at 30 dca. 389.53 to 389.65 Chlorite biotite alteration. 389.97 to 390.19 high grade graphite breccia at 50 to 77 dca. 391.17 to 391.63 Graphite breccia at 55 & 99 dca. 392.75 to 393 Felsic dyke? At 145 dca. 393.08 to 393.16 Orthoclase-rich Lower contact chill margin at 40 dca.								
			Q158647	380.69	382.00	1.31	0.15	0.25	
			Q158648	382.00	383.00	1.00	0.14	0.23	
			Q158649	383.00	384.00	1.00	0.13	0.26	
			Q158651	384.00	385.00	1.00	0.1	0.25	
			Q158650	384.00	385.00	1.00	0.09	0.27	
			Q158652	385.00	386.00	1.00	0.13	0.25	
			Q158653	386.00	387.00	1.00	0.26	0.29	
			Q158654	387.00	388.00	1.00	0.24	0.32	
			Q158656	388.00	389.00	1.00	0.16	0.17	
			Q158657	389.00	389.97	0.97	0.89	0.14	
			Q158658	389.97	390.19	0.22	11.5	0.22	
			Q158659	390.19	391.17	0.98	0.72	0.21	
			Q158660	391.17	391.63	0.46	6.39	0.17	
			Q158661	391.63	392.75	1.12	0.21	0.19	
			Q158662	392.75	393.16	0.41	0.3	0.34	
393.16	400.30	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. Lower contact chloritic at 41 dca.							
			Q158663	393.16	394.00	0.84	5.03	0.22	
			Q158665	394.00	395.00	1.00	2.32	0.25	
			Q158666	395.00	396.00	1.00	3.06	0.24	
			Q158667	396.00	397.00	1.00	1.13	0.22	
			Q158668	397.00	398.00	1.00	3.13	0.35	
			Q158669	398.00	398.34	0.34	6.74	0.33	
			Q158671	398.34	399.00	0.66	1.23	0.17	
			Q158670	398.34	399.00	0.66	1.21	0.17	
			Q158672	399.00	400.00	1.00	12.5	0.16	
			Q158673	400.00	400.30	0.30	2.59	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
400.30	405.91	**DIOR Diorite** Orange and green with 50/50 dioritic texture. Syenodiorite. Massive and very hard. 404.70 to 405.91 Very strongly fracture fault zone at 0 to 55 dca. Lower contact at 50 dca.	Q158674	400.30	401.00	0.70	0.02	0.09	
			Q158676	401.00	402.00	1.00	0.03	0.06	
			Q158677	402.00	403.00	1.00	0.03	0.04	
			Q158678	403.00	404.00	1.00	0.01	0.04	
			Q158679	404.00	405.00	1.00	0.04	0.05	
			Q158680	405.00	405.91	0.91	0.07	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
405.91	443.21	**SYENSL Syenite Sill (unmineralized)** Dark green. Medium to coarse grained. Massive and very hard. Unit is 90% sill unit with 10% syenites and diorites. A mixture of synodioritic intrusives. 418-419 graphite overprinting. Lower contact at 71 dca.	Q158681	405.91	407.00	1.09	0.01	0.05	
			Q158682	407.00	408.00	1.00	0.03	0.02	
			Q158683	408.00	409.50	1.50	0.06	0.02	
			Q158685	409.50	411.00	1.50	0.02	0.29	
			Q158686	411.00	412.50	1.50	0.05	0.04	
			Q158687	412.50	414.00	1.50	0.05	0.04	
			Q158688	414.00	415.50	1.50	0.06	0.07	
			Q158689	415.50	417.00	1.50	0.03	0.07	
			Q158690	417.00	418.00	1.00	0.02	0.06	
			Q158691	417.00	418.00	1.00	0.04	0.06	
			Q158692	418.00	419.00	1.00	2.87	0.22	
			Q158693	419.00	420.00	1.00	0.71	0.08	
			Q158694	420.00	421.50	1.50	0.13	0.15	
			Q158696	421.50	423.00	1.50	0.1	0.55	
			Q158697	423.00	424.50	1.50	0.07	0.02	
			Q158698	424.50	426.00	1.50	0.07	0.03	
			Q158699	426.00	427.50	1.50	0.04	0.03	
			Q158700	427.50	429.00	1.50	0.08	0.09	
			Q158701	429.00	430.50	1.50	0.06	0.02	
			Q158702	430.50	432.00	1.50	0.11	0.03	
			Q158703	432.00	433.50	1.50	0.09	0.02	
			Q158705	433.50	435.00	1.50	0.05	0.05	
			Q158706	435.00	436.50	1.50	0.08	0.05	
			Q158707	436.50	438.00	1.50	0.05	0.07	
			Q158708	438.00	439.50	1.50	0.08	0.15	
			Q158709	439.50	441.00	1.50	0.12	0.19	
			Q158710	441.00	442.00	1.00	0.29	0.27	
			Q158711	441.00	442.00	1.00	0.28	0.25	
			Q158712	442.00	443.21	1.21	0.23	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
443.21	445.73	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. 20% gneiss. Lower contact at 50 dca.	Q158713	443.21	444.00	0.79	2.09	0.2	
			Q158714	444.00	445.00	1.00	3.66	0.22	
			Q158716	445.00	445.73	0.73	1.01	0.25	
445.73	448.51	**SYEN Syenite** Dark green with grey and orange tinge. Massive. Very hard. Lower contact 123 dca.	Q158717	445.73	447.00	1.27	0.26	0.27	
			Q158718	447.00	448.00	1.00	0.25	0.22	
			Q158719	448.00	448.51	0.51	0.34	0.24	
448.51	453.59	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. 20% gneiss. Lower contact at 57 dca.	Q158720	448.51	449.00	0.49	2.19	0.25	
			Q158721	449.00	450.00	1.00	1.62	0.24	
			Q158722	450.00	451.00	1.00	0.78	0.21	
			Q158723	451.00	452.00	1.00	5.79	0.29	
			Q158725	452.00	453.00	1.00	1.11	0.3	
			Q158726	453.00	453.59	0.59	2.17	0.15	
453.59	457.99	**SYEN Syenite** Dark green with grey and orange tinge. Massive. Very hard. Lower contact at 75 dca.	Q158727	453.59	454.00	0.41	0.35	0.19	
			Q158728	454.00	455.00	1.00	0.22	0.17	
			Q158729	455.00	456.00	1.00	0.26	0.23	
			Q158731	456.00	457.00	1.00	0.31	0.29	
			Q158730	456.00	457.00	1.00	0.31	0.27	
			Q158732	457.00	457.99	0.99	0.25	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
457.99	461.05	**GRPBX Graphitic Breccia** Dark grey to black with 1-10 cm overprinted gneiss fragments in a graphitic matrix. 20% gneiss. Lower contact sharp t 125 dca.	Q158733	457.99	459.00	1.01	2.16	0.3	
			Q158734	459.00	460.00	1.00	3.59	0.2	
			Q158736	460.00	461.05	1.05	3.9	0.19	
461.05	465.43	**SYENOP Syenite with Graphitic Overprinting** Dark green with grey and orange tinge. Massive. Very hard. 10% graphite breccia. 463.58 to 464.18 Graphite breccia Lower contact 2cm of biotite alteration at 71 dca. Lower contact very irregular at 60 dca.	Q158737	461.05	462.00	0.95	0.21	0.1	
			Q158738	462.00	463.00	1.00	0.17	0.12	
			Q158739	463.00	463.58	0.58	0.15	0.07	
			Q158740	463.58	464.18	0.60	4.4	0.57	
			Q158741	464.18	465.00	0.82	0.69	0.13	
			Q158742	465.00	465.43	0.43	0.58	0.1	
465.43	466.39	**IDP Intermediate Dike (Porphyritic)** Dark green with 1-2cm angular fragments of plagioclase felsic? Massive and hard. Lower contact very irregular at 115 dca.	Q158743	465.43	466.39	0.96	0.25	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
466.39	486.81	**GRDR Granodiorite** Light green and grey with pink and orange tinge. With 60% quartz. Massive and very hard. Possibly a quartz diorite. 473.26 to 474.04 Mafic dyke at 75 dca. 482.51 to 483.25 Mafic dyke with minor graphite. Upper contact 5cm chill margin at 27 dca. Lower contact undulating at 11 dca. Lower contact at 140 dca.							
			Q158745	466.39	467.00	0.61	0.11	0.19	
			Q158746	467.00	468.00	1.00	0.22	0.19	
			Q158747	468.00	469.00	1.00	0.15	0.19	
			Q158748	469.00	470.00	1.00	0.25	0.17	
			Q158749	470.00	471.00	1.00	0.1	0.1	
			Q158750	471.00	472.00	1.00	0.08	0.14	
			Q158751	471.00	472.00	1.00	0.11	0.15	
			Q158752	472.00	473.26	1.26	0.22	0.31	
			Q158753	473.26	474.04	0.78	0.38	0.7	
			Q158754	474.04	475.00	0.96	0.11	0.21	
			Q158756	475.00	476.00	1.00	0.15	0.07	
			Q158757	476.00	477.00	1.00	0.13	0.2	
			Q158758	477.00	478.00	1.00	0.15	0.2	
			Q158759	478.00	479.00	1.00	0.12	0.11	
			Q158760	479.00	480.00	1.00	0.15	0.15	
			Q158761	480.00	481.00	1.00	0.15	0.25	
			Q158762	481.00	482.00	1.00	0.12	0.15	
			Q158763	482.00	482.51	0.51	0.26	0.03	
			Q158765	482.51	483.25	0.74	0.18	0.42	
			Q158766	483.25	484.00	0.75	0.1	0.03	
			Q158767	484.00	485.00	1.00	0.23	0.08	
			Q158768	485.00	486.00	1.00	0.13	0.09	
			Q158769	486.00	486.81	0.81	0.13	0.14	
486.81	490.93	**SYENSL Syenite Sill (unmineralized)** Dark green. Medium to coarse grained. Massive and very hard. Lower contact at 45 dca.							
			Q158771	486.81	488.00	1.19	0.11	0.06	
			Q158770	486.81	488.00	1.19	0.1	0.06	
			Q158772	488.00	489.00	1.00	0.18	0.03	
			Q158773	489.00	490.00	1.00	0.18	0.03	
			Q158774	490.00	490.93	0.93	0.12	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
490.93	498.00	**GRDR Granodiorite** Light green and grey with pink and orange tinge. With 60% quartz. Massive and very hard. Possibly a quartz diorite. 491.75 to 492.48 Mafic dyke with minor graphite. Upper contact undulating at 141 dca. Lower contact 9 cm chill margin at 147 dca. 494.45 to 494.94 Mafic dyke with minor graphite at 157 dca. 496.00 to 498.00 Syenite at 65 and 47 dca. EOH 498.0m	Q158776	490.93	491.75	0.82	0.16	0.05	
			Q158777	491.75	492.48	0.73	1.74	1.09	
			Q158778	492.48	493.00	0.52	0.24	0.04	
			Q158779	493.00	494.00	1.00	0.14	0.08	
			Q158780	494.00	494.45	0.45	0.32	0.05	
			Q158781	494.45	494.94	0.49	0.27	0.37	
			Q158782	494.94	496.00	1.06	0.23	0.07	
			Q158783	496.00	496.88	0.88	0.11	0.15	
			Q158785	496.88	498.00	1.12	0.18	0.14	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Resource hole	393.00	09/10/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545722	682341			Hand-held GPS		12/10/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	130.00	119.00		-50.00	Chibougamau Diamond Drilling		13/10/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Ardian Peshkepia		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☐

Core Size (1)	NQ	339	**Casing Pulled**	**Casing (1)**	54.00	Steel	**Plugged**	**Pulsed**	**Geophysics Contractor**	**Date Pulsed**
(2)			☐	**(2)**			☐	☐	Geotech Ltd.	

Purpose	Results	Comments
Test west pipe from the northwest.	This drill hole intersected well mineralized graphitic breccia from 106.8 to 211.00m, for a total of 104.20m downhole. A second breccia interval was intersected from 259.65m to 287.90m for 28.25m; a third breccia section was intersected from 296.58m to 321.15m for 24.57m followed by a weakly mineralized felsic breccia and a thin (1.1m) graphitic breccia section at 335.40m. From 106.80m to 345.00m, the assays averaged 2.11% Cg over 238.20m; within this intersection a higher grade graphite zone from 106.80m to 210.00m averaged 2.95% Cg over 103.20m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
63.00			127.7	118.7	-51.2	-51.2	☑	Reflex EZ	56254	
66.00			127.2	118.2	-51.4	-51.4	☑	Reflex EZ	56311	
69.00			126.4	117.4	-51.4	-51.4	☑	Reflex EZ	56338	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
72.00			128	119	-51.1	-51.1	☑	Reflex EZ	56189	
75.00			126.1	117.1	-51.3	-51.3	☑	Reflex EZ	56317	
78.00			126	117	-50.5	-50.5	☑	Reflex EZ	56222	
81.00			126	117	-50.5	-50.5	☑	Reflex EZ	56231	
84.00			124.5	115.5	-50.9	-50.9	☑	Reflex EZ	56144	
87.00			125.3	116.3	-50.6	-50.6	☑	Reflex EZ	56256	
90.00			124.8	115.8	-51	-51	☑	Reflex EZ	56291	
93.00			126.1	117.1	-51.3	-51.3	☑	Reflex EZ	56303	
96.00			125.6	116.6	-51.2	-51.2	☑	Reflex EZ	56321	
99.00			125	116	-51.1	-51.1	☑	Reflex EZ	56281	
102.00			125.7	116.7	-51.2	-51.2	☑	Reflex EZ	56337	
105.00			124.7	115.7	-50.7	-50.7	☑	Reflex EZ	56266	
108.00			125.7	116.7	-50.4	-50.4	☑	Reflex EZ	56221	
111.00			126.4	117.4	-51.2	-51.2	☑	Reflex EZ	56321	
114.00			127.5	118.5	-51.1	-51.1	☑	Reflex EZ	56294	
117.00			124.8	115.8	-50.6	-50.6	☑	Reflex EZ	56263	
120.00			126.6	117.6	-51.1	-51.1	☑	Reflex EZ	56294	
123.00			126.4	117.4	-51.1	-51.1	☑	Reflex EZ	56300	
126.00			125.8	116.8	-50.2	-50.2	☑	Reflex EZ	56215	
129.00			124.7	115.7	-50.1	-50.1	☑	Reflex EZ	56241	
132.00			126.5	117.5	-50.8	-50.8	☑	Reflex EZ	56283	
135.00			125.3	116.3	-50	-50	☑	Reflex EZ	56230	
138.00			125.2	116.2	-50.5	-50.5	☑	Reflex EZ	56304	
141.00			124.8	115.8	-50.5	-50.5	☑	Reflex EZ	56263	
144.00			127.4	118.4	-50.6	-50.6	☑	Reflex EZ	56224	
147.00			126.1	117.1	-50.5	-50.5	☑	Reflex EZ	56248	
150.00			125.4	116.4	-50.5	-50.5	☑	Reflex EZ	56307	
153.00			127.3	118.3	-50.7	-50.7	☑	Reflex EZ	56279	
156.00			125.2	116.2	-50.4	-50.4	☑	Reflex EZ	56281	
159.00			127.2	118.2	-50.2	-50.2	☑	Reflex EZ	56215	
162.00			126.2	117.2	-49.6	-49.6	☑	Reflex EZ	56175	
165.00			126.9	117.9	-49.6	-49.6	☑	Reflex EZ	56090	
168.00			125.6	116.6	-49.4	-49.4	☑	Reflex EZ	56174	
171.00			125.9	116.9	-50.1	-50.1	☑	Reflex EZ	56274	
174.00			125.2	116.2	-49.4	-49.4	☑	Reflex EZ	56146	
177.00			126.5	117.5	-50.1	-50.1	☑	Reflex EZ	56236	
180.00			124.2	115.2	-49.4	-49.4	☑	Reflex EZ	56211	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
183.00			124.7	115.7	-49.8	-49.8	☑	Reflex EZ	56264	
186.00			127.3	118.3	-49.7	-49.7	☑	Reflex EZ	56237	
189.00			127.1	118.1	-49.5	-49.5	☑	Reflex EZ	56181	
192.00			125.2	116.2	-50	-50	☑	Reflex EZ	56290	
195.00			124.5	115.5	-49.3	-49.3	☑	Reflex EZ	56201	
198.00			126.1	117.1	-49.4	-49.4	☑	Reflex EZ	56150	
201.00			126.9	117.9	-49.4	-49.4	☑	Reflex EZ	56183	
204.00			128.5	119.5	-49.6	-49.6	☑	Reflex EZ	56291	
207.00			125.3	116.3	-48.8	-48.8	☑	Reflex EZ	56094	
210.00			124.5	115.5	-49.4	-49.4	☑	Reflex EZ	56240	
213.00			124.4	115.4	-48.9	-48.9	☑	Reflex EZ	56147	
216.00			127.4	118.4	-49.4	-49.4	☑	Reflex EZ	56194	
219.00			124.7	115.7	-49.4	-49.4	☑	Reflex EZ	56235	
222.00			125.5	116.5	-48.7	-48.7	☑	Reflex EZ	56166	
225.00			125.8	116.8	-48.7	-48.7	☑	Reflex EZ	56175	
228.00			126.8	117.8	-48.9	-48.9	☑	Reflex EZ	56127	
231.00			125.1	116.1	-49.2	-49.2	☑	Reflex EZ	56333	
234.00			125.6	116.6	-49.3	-49.3	☑	Reflex EZ	56255	
237.00			126.6	117.6	-48.6	-48.6	☑	Reflex EZ	56155	
240.00			125.4	116.4	-49.1	-49.1	☑	Reflex EZ	56208	
243.00			126.7	117.7	-48.6	-48.6	☑	Reflex EZ	56122	
246.00			126.1	117.1	-49.1	-49.1	☑	Reflex EZ	56241	
249.00			125.2	116.2	-49	-49	☑	Reflex EZ	56311	
252.00			125.2	116.2	-49	-49	☑	Reflex EZ	56243	
255.00			124.4	115.4	-48.7	-48.7	☑	Reflex EZ	56262	
258.00			127.1	118.1	-48.9	-48.9	☑	Reflex EZ	56257	
261.00			124.5	115.5	-48.7	-48.7	☑	Reflex EZ	56228	
264.00			127.3	118.3	-48.7	-48.7	☑	Reflex EZ	56204	
267.00			127	118	-48.8	-48.8	☑	Reflex EZ	56245	
270.00			126.2	117.2	-48.8	-48.8	☑	Reflex EZ	56258	
273.00			124.3	115.3	-48.6	-48.6	☑	Reflex EZ	56294	
276.00			124.6	115.6	-48.6	-48.6	☑	Reflex EZ	56247	
279.00			127.5	118.5	-48.6	-48.6	☑	Reflex EZ	56070	
282.00			126.7	117.7	-48.8	-48.8	☑	Reflex EZ	56272	
285.00			125.3	116.3	-48.8	-48.8	☑	Reflex EZ	56322	
288.00			126.6	117.6	-48.8	-48.8	☑	Reflex EZ	56312	
291.00			126.7	117.7	-48.8	-48.8	☑	Reflex EZ	56297	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
300.00			127.2	118.2	-48.6	-48.6	☑	Reflex EZ	56161	
303.00			126.4	117.4	-48.7	-48.7	☑	Reflex EZ	56258	
306.00			126.8	117.8	-48.1	-48.1	☑	Reflex EZ	56171	
309.00			124.3	115.3	-48.4	-48.4	☑	Reflex EZ	56288	
312.00			124.7	115.7	-48.4	-48.4	☑	Reflex EZ	56303	
315.00			124.8	115.8	-48.5	-48.5	☑	Reflex EZ	56310	
318.00			127	118	-48.2	-48.2	☑	Reflex EZ	56201	
321.00			127.3	118.3	-48.2	-48.2	☑	Reflex EZ	56294	
324.00			124.7	115.7	-48	-48	☑	Reflex EZ	56245	
327.00			127	118	-48.6	-48.6	☑	Reflex EZ	56164	
330.00			126.6	117.6	-48.2	-48.2	☑	Reflex EZ	56216	
333.00			126.9	117.9	-48.2	-48.2	☑	Reflex EZ	56168	
336.00			125.9	116.9	-48	-48	☑	Reflex EZ	56188	
339.00			126.8	117.8	-48.2	-48.2	☑	Reflex EZ	56236	
348.00			127.2	118.2	-48.4	-48.4	☑	Reflex EZ	56257	
351.00			126.7	117.7	-48.6	-48.6	☑	Reflex EZ	56240	
360.00			127.2	118.2	-48.4	-48.4	☑	Reflex EZ	56246	
363.00			125.7	116.7	-48.1	-48.1	☑	Reflex EZ	56132	
366.00			125.3	116.3	-47.8	-47.8	☑	Reflex EZ	56257	
369.00			127.4	118.4	-48.4	-48.4	☑	Reflex EZ	55980	
372.00			125.4	116.4	-48.4	-48.4	☑	Reflex EZ	56169	
375.00			127.3	118.3	-48.2	-48.2	☑	Reflex EZ	55970	
378.00			125.1	116.1	-48.1	-48.1	☑	Reflex EZ	56186	
381.00			127.6	118.6	-48.4	-48.4	☑	Reflex EZ	56178	
384.00			124.7	115.7	-48.1	-48.1	☑	Reflex EZ	56189	
387.00			126.9	117.9	-47.7	-47.7	☑	Reflex EZ	56021	
390.00			127.3	118.3	-47.8	-47.8	☑	Reflex EZ	55926	
393.00			127.3	118.3	-47.8	-47.8	☑	Reflex EZ	55920	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	52.55	**OB Overburden** From 0 to 50.2 unknown overburden. From 50.2 to 52.55 indurated sand and clay.							
52.55	54.93	**SED Sediment** White to brownish-beige, limestone and siltstone.							
54.93	60.00	**SYENOP Syenite with Graphitic Overprinting** Light grey to pinkish-grey, medium grained, massive syenite. Very weak graphite overprinting as isolated hairline fracture filling graphite veinlets. From 59.3 to 59.5m fractured core, fault gouge.	N551242	54.93	56.00	1.07	0.17	0.31	
			N551243	56.00	57.00	1.00	0.21	0.05	
			N551245	57.00	58.00	1.00	0.28	0.18	
			N551246	58.00	59.00	1.00	0.25	0.07	
			N551247	59.00	60.00	1.00	0.4	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
60.00	73.86	**SYEN Syenite** Light to medium grey with reddish-pink hue, medium grained, massive syenite. No visible graphite.	N551248	60.00	61.00	1.00	0.15	0.03	
			N551249	61.00	62.00	1.00	0.14	0.05	
			N551250	62.00	63.00	1.00	0.13	0.05	
			N551252	63.00	64.00	1.00	0.1	0.06	
			N551253	64.00	65.00	1.00	0.14	0.14	
			N551254	65.00	66.00	1.00	0.14	0.06	
			N551256	66.00	67.00	1.00	0.12	0.03	
			N551257	67.00	68.00	1.00	0.13	0.11	
			N551258	68.00	69.00	1.00	0.1	0.08	
			N551259	69.00	70.00	1.00	0.09	0.03	
			N551260	70.00	71.00	1.00	0.08	0.09	
			N551261	71.00	72.00	1.00	0.15	0.15	
			N551262	72.00	73.00	1.00	0.12	0.14	
			N551263	73.00	73.86	0.86	0.12	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
73.86	- 106.80	**SYENOP Syenite with Graphitic Overprinting** Light to medium grey to pinkish-grey, medium grained massive syenite. Weak to moderate graphite overprinting as fracture filling veinlets from 73.9 to 74.4m; from 76.1 to 78.7m. Weak graphite overprinting from 83 to 99m.	N551265	73.86	74.90	1.04	0.73	0.08	
			N551266	74.90	76.00	1.10	0.18	0.1	
			N551267	76.00	77.00	1.00	1.23	0.13	
			N551268	77.00	78.00	1.00	0.56	0.12	
			N551269	78.00	79.00	1.00	1	0.14	
			N551270	79.00	80.00	1.00	0.23	0.11	
			N551272	80.00	81.00	1.00	0.4	0.13	
			N551273	81.00	82.00	1.00	0.12	0.06	
			N551274	82.00	83.00	1.00	0.11	0.03	
			N551276	83.00	84.00	1.00	0.1	0.07	
			N551277	84.00	85.00	1.00	0.27	0.08	
			N551278	85.00	86.00	1.00	0.2	0.08	
			N551279	86.00	87.00	1.00	0.72	0.05	
			N551280	87.00	88.00	1.00	0.31	0.07	
			N551281	88.00	89.00	1.00	0.16	0.06	
			N551282	89.00	90.00	1.00	0.23	0.05	
			N551283	90.00	91.00	1.00	0.2	0.08	
			N551285	91.00	92.00	1.00	0.19	0.08	
			N551286	92.00	93.00	1.00	0.04	0.04	
			N551287	93.00	94.00	1.00	0.1	0.03	
			N551288	94.00	95.00	1.00	0.12	0.09	
			N551289	95.00	96.00	1.00	0.12	0.06	
			N551290	96.00	97.00	1.00	0.3	0.1	
			N551292	97.00	98.00	1.00	0.14	0.05	
			N551293	98.00	99.00	1.00	0.13	0.11	
			N551294	99.00	100.00	1.00	0.35	0.09	
			N551296	100.00	101.00	1.00	0.21	0.29	
			N551297	101.00	102.00	1.00	0.44	0.21	
			N551298	102.00	103.00	1.00	0.25	0.16	
			N551299	103.00	104.00	1.00	0.4	0.19	
			N551300	104.00	105.00	1.00	0.21	0.12	
			N551301	105.00	105.90	0.90	0.14	0.11	
			N551302	105.90	106.80	0.90	0.48	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
106.80	129.00	**GRPBX Graphitic Breccia** Light to medium grey, medium grained brecciated syenite. Matrix supported breccia with angular syenite fragments in fine grained dark grey to black graphite flooded matrix. Fragments range in size from <1cm to 60cm. Over all well mineralized. Fractured core from 113.15 to 113.35m.	N551303	106.80	107.90	1.10	4.55	0.29	
			N551305	107.90	109.00	1.10	4.39	0.13	
			N551306	109.00	110.00	1.00	4.62	0.29	2.62
			N551307	110.00	111.00	1.00	4.63	0.32	2.63
			N551308	111.00	112.00	1.00	4.29	0.23	2.61
			N551309	112.00	113.00	1.00	6.12	0.24	2.62
			N551310	113.00	114.00	1.00	6.11	0.38	2.61
			N551312	114.00	115.00	1.00	8.67	0.32	
			N551313	115.00	116.00	1.00	1.93	0.17	
			N551314	116.00	117.00	1.00	4.8	0.23	
			N551316	117.00	118.00	1.00	3.9	0.36	
			N551317	118.00	119.00	1.00	4.48	0.39	
			N551318	119.00	120.00	1.00	6.69	0.36	
			N551319	120.00	121.00	1.00	2.26	0.12	
			N551320	121.00	122.00	1.00	1.44	0.13	
			N551321	122.00	123.00	1.00	3.11	0.16	
			N551322	123.00	124.00	1.00	3.39	0.25	
			N551323	124.00	125.00	1.00	1.91	0.26	
			N551325	125.00	126.00	1.00	0.83	0.24	
			N551326	126.00	127.00	1.00	1.3	0.13	
			N551327	127.00	128.00	1.00	3.36	0.41	
			N551328	128.00	129.00	1.00	3.37	0.17	
129.00	132.70	**SYENOP Syenite with Graphitic Overprinting** Light grey with a light pink hue, coarse massive syenite. Weak graphite overprinting as hairline fracture filling graphite veinlets. 5cm mafic dyke at 131.4m	N551329	129.00	130.00	1.00	1.1	0.16	
			N551330	130.00	131.00	1.00	0.53	0.2	
			N551332	131.00	131.90	0.90	0.31	0.17	
			N551333	131.90	132.70	0.80	1.38	0.23	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
132.70	172.50	**GRPBX Graphitic Breccia** Brecciated syenite. Angular to subangular syenite fragments in graphite flooded matrix. Matrix supported breccia. Fragments range from <1cm to 5cm with the odd fragment up to 40cm.	N551334	132.70	133.75	1.05	2.4	0.15	
			N551336	133.75	134.80	1.05	5.77	0.29	
			N551337	134.80	135.90	1.10	4.82	1.23	
			N551338	135.90	137.00	1.10	5.64	0.44	
			N551339	137.00	138.00	1.00	2.59	0.52	
			N551340	138.00	139.00	1.00	3.03	0.33	
			N551341	139.00	140.00	1.00	3.63	0.37	
			N551342	140.00	141.00	1.00	1.63	0.27	
			N551343	141.00	142.00	1.00	6.17	0.48	
			N551345	142.00	143.00	1.00	4.42	0.19	
			N551346	143.00	144.00	1.00	2.52	0.16	
			N551347	144.00	145.00	1.00	3.23	0.28	
			N551348	145.00	146.00	1.00	4.23	0.3	
			N551349	146.00	147.00	1.00	2.81	0.27	
			N551350	147.00	148.00	1.00	4.56	0.53	
			N551352	148.00	149.00	1.00	5.89	0.31	
			N551353	149.00	150.00	1.00	5.17	0.2	
			N551354	150.00	151.00	1.00	1.84	0.35	
			N551356	151.00	152.00	1.00	3.15	0.31	
			N551357	152.00	153.00	1.00	3.74	0.29	
			N551358	153.00	154.00	1.00	4.05	0.34	
			N551359	154.00	155.00	1.00	3.86	0.3	
			N551360	155.00	156.00	1.00	3.32	0.35	
			N551361	156.00	157.00	1.00	3.23	0.34	
			N551362	157.00	158.00	1.00	4.76	0.4	
			N551363	158.00	159.00	1.00	1.84	0.15	
			N551365	159.00	160.00	1.00	2.75	0.39	
			N551366	160.00	161.00	1.00	4.16	0.21	
			N551367	161.00	162.00	1.00	4	0.46	
			N551368	162.00	163.00	1.00	3.8	0.32	
			N551369	163.00	164.00	1.00	1.61	0.77	
			N551370	164.00	165.00	1.00	0.78	0.31	
			N551372	165.00	166.00	1.00	1.68	0.35	
			N551373	166.00	167.00	1.00	0.4	0.28	
			N551374	167.00	168.00	1.00	0.39	0.33	
			N551376	168.00	169.00	1.00	2.99	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N551377	169.00	169.90	0.90	4.08	0.32	
			N551378	169.90	170.80	0.90	3.81	0.35	
			N551379	170.80	171.70	0.90	1.54	0.12	
			N551380	171.70	172.50	0.80	2.27	0.25	
172.50	176.50	**SYENOP Syenite with Graphitic Overprinting**							
		Dark grey, coarse, massive syenite. Weak graphite overprinting as odd fracture filling graphite veinlet. Upper contact sharp at 70 dca. Lower contact sharp at 60 dca.	N551381	172.50	173.50	1.00	0.12	0.07	
			N551382	173.50	174.50	1.00	1.08	0.09	
			N551383	174.50	175.50	1.00	1.53	0.28	
			N551385	175.50	176.50	1.00	0.41	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
176.50	202.75	**GRPBX Graphitic Breccia** Medium to dark grey, coarse brecciated syenite. Matrix supported breccia with graphite flooding in the matrix. Moderate fracturing from 195.8 to 196.5m. From 195 to 201 mainly brecciated syenite with low graphite content. Lower contact sharp at 75 dca.	N551386	176.50	177.40	0.90	3.87	0.3	
			N551387	177.40	178.30	0.90	3.86	0.49	
			N551388	178.30	179.20	0.90	3.89	0.26	
			N551389	179.20	180.10	0.90	3.28	0.42	
			N551390	180.10	181.00	0.90	3.71	0.45	
			N551392	181.00	182.00	1.00	2.96	0.1	
			N551393	182.00	183.00	1.00	3.3	0.44	
			N551394	183.00	184.00	1.00	3.02	0.7	
			N551396	184.00	185.00	1.00	5.48	0.32	
			N551397	185.00	186.00	1.00	2.18	0.19	
			N551398	186.00	187.00	1.00	1.63	0.24	
			N551399	187.00	188.00	1.00	0.58	0.06	
			N551400	188.00	189.00	1.00	1.46	0.2	
			N551401	189.00	190.00	1.00	1.4	0.34	
			N551402	190.00	191.00	1.00	2.49	0.29	
			N551403	191.00	192.00	1.00	4.06	0.37	
			N551405	192.00	193.00	1.00	2.8	0.34	
			N551406	193.00	194.00	1.00	2.03	0.4	
			N551407	194.00	195.00	1.00	2.57	0.28	
			N551408	195.00	196.00	1.00	1.51	0.25	
			N551409	196.00	197.00	1.00	0.69	0.06	
			N551410	197.00	198.00	1.00	1.92	0.61	
			N551412	198.00	199.00	1.00	1.44	0.35	
			N551413	199.00	200.00	1.00	0.73	0.08	
			N551414	200.00	201.00	1.00	1.09	0.05	
			N551416	201.00	201.90	0.90	2.63	0.1	
			N551417	201.90	202.75	0.85	0.5	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
202.75	205.38	**IDP Intermediate Dike (Porphyritic)** Massive porphyritic intermediate dyke. No visible graphite. Subhedral feldspar and subrounded amphibole phenocrysts in fine grained greenish-grey matrix. No visible graphite. Lower contact sharp at 70 dca.	N551418	202.75	203.65	0.90	0.06	0.33	
			N551419	203.65	204.50	0.85	0.05	0.35	
			N551420	204.50	205.38	0.88	0.06	0.44	
205.38	211.00	**GRPBX Graphitic Breccia** Medium to dark grey, coarse, weakly banded syenite sections mixed with dark grey fine grained banded matrix from 208.1 to 209.6m. 15cm massive graphite vein at 205.8. Lower contact sharp at 75 dca.	N551421	205.38	206.30	0.92	4.58	0.36	
			N551422	206.30	207.20	0.90	0.64	0.34	
			N551423	207.20	208.10	0.90	1	0.17	
			N551425	208.10	209.00	0.90	6.22	0.37	
			N551426	209.00	210.00	1.00	4.62	0.26	
			N551427	210.00	211.00	1.00	0.79	0.12	
211.00	226.00	**SYENOP Syenite with Graphitic Overprinting** Medium grey to locally light pink, massive coarse syenite. Weak graphite overprinting, up to 10% brecciated sections in an otherwise massive unmineralized syenite.	N551428	211.00	212.00	1.00	0.91	0.11	
			N551429	212.00	213.00	1.00	1.86	0.17	
			N551430	213.00	214.00	1.00	1.35	0.06	
			N551432	214.00	215.00	1.00	1.54	0.2	
			N551433	215.00	216.00	1.00	1.04	0.05	
			N551434	216.00	217.00	1.00	0.19	0.07	
			N551436	217.00	218.00	1.00	0.17	0.07	
			N551437	218.00	219.00	1.00	1.17	0.11	
			N551438	219.00	220.00	1.00	0.13	0.15	
			N551439	220.00	221.00	1.00	0.52	0.2	
			N551440	221.00	222.00	1.00	0.09	0.07	
			N551441	222.00	223.00	1.00	0.43	0.21	
			N551442	223.00	224.00	1.00	0.19	0.17	
			N551443	224.00	225.00	1.00	1.06	0.27	
			N551445	225.00	226.00	1.00	0.58	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
226.00	249.65	**FBX Felsic Breccia** Light to medium grey, locally with a pink hue, coarse brecciated syenite. Greenish-brown biotite rich fragments. Not a well developed breccia. Up to 5% 3-4 brecciated sections 15-20cm long with graphite in the matrix.	N551446	226.00	227.00	1.00	0.39	0.1	
			N551447	227.00	228.00	1.00	0.66	0.07	
			N551448	228.00	229.00	1.00	1.03	0.2	
			N551449	229.00	230.00	1.00	1.06	0.12	
			N551450	230.00	231.00	1.00	0.92	0.08	
			N551452	231.00	232.00	1.00	1.82	0.31	
			N551453	232.00	233.00	1.00	0.33	0.19	
			N551454	233.00	234.00	1.00	0.32	0.24	
			N551456	234.00	235.00	1.00	0.53	0.28	
			N551457	235.00	236.00	1.00	0.35	0.07	
			N551458	236.00	237.00	1.00	0.33	0.19	
			N551459	237.00	238.00	1.00	0.33	0.05	
			N551460	238.00	239.00	1.00	0.32	0.11	
			N551461	239.00	240.00	1.00	0.24	0.2	
			N551462	240.00	241.00	1.00	0.33	0.06	
			N551463	241.00	242.00	1.00	0.42	0.14	
			N551465	242.00	243.00	1.00	0.32	0.11	
			N551466	243.00	244.00	1.00	0.31	0.1	
			N551467	244.00	245.00	1.00	0.32	0.11	
			N551468	245.00	246.00	1.00	0.39	0.06	
			N551469	246.00	247.00	1.00	0.34	0.08	
			N551470	247.00	247.90	0.90	0.35	0.1	
			N551472	247.90	248.80	0.90	0.3	0.09	
			N551473	248.80	249.65	0.85	0.28	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
249.65	255.15	**SYEN Syenite** Medium grey, coarse, massive syenite. No visible graphite.	N551474	249.65	250.60	0.95	0.12	0.24	
			N551476	250.60	251.80	1.20	0.1	0.13	
			N551477	251.80	252.90	1.10	0.52	0.08	
			N551478	252.90	254.00	1.10	0.14	0.06	
			N551479	254.00	255.15	1.15	0.11	0.06	
255.15	259.65	**FBX Felsic Breccia** Medium grey, coarse, locally brecciated syenite with pink patches. Minor carbonate veinlets at 255.5m. No visible graphite. Mafic subrounded fragments 2-15cm.	N551480	255.15	256.05	0.90	0.19	0.1	
			N551481	256.05	256.95	0.90	0.28	0.07	
			N551482	256.95	257.85	0.90	0.21	0.1	
			N551483	257.85	258.75	0.90	0.23	0.2	
			N551485	258.75	259.65	0.90	0.25	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
259.65	283.00	**GRPBX Graphitic Breccia** Medium to dark grey, coarse brecciated syenite. Good graphite as dark grey to black, fine grained graphite flooding in the matrix. Angular syenite fragments range from 1 to 50+ cm. Both contacts sharp at 80 dca.	N551486	259.65	260.70	1.05	1.15	0.17	
			N551487	260.70	261.80	1.10	0.84	0.15	
			N551488	261.80	262.90	1.10	1.62	0.15	
			N551489	262.90	264.00	1.10	0.42	0.29	
			N551490	264.00	265.00	1.00	0.95	0.17	
			N551492	265.00	266.00	1.00	2.14	0.72	
			N551493	266.00	267.00	1.00	1.4	0.33	
			N551494	267.00	268.00	1.00	1.07	0.21	
			N551496	268.00	269.00	1.00	0.93	0.15	
			N551497	269.00	270.00	1.00	1.36	0.33	
			N551498	270.00	271.00	1.00	3.74	0.79	2.6
			N551499	271.00	272.00	1.00	1.47	0.23	2.62
			N551500	272.00	273.00	1.00	1.41	0.18	2.64
			N551501	273.00	274.00	1.00	0.84	0.22	2.63
			N551502	274.00	275.00	1.00	2.2	0.24	2.69
			N551503	275.00	276.00	1.00	3.23	0.15	
			N551505	276.00	277.00	1.00	2.45	0.3	
			N551506	277.00	278.00	1.00	0.6	0.3	
			N551507	278.00	279.00	1.00	0.92	0.12	
			N551508	279.00	280.00	1.00	1.68	0.18	
			N551509	280.00	281.00	1.00	1.22	0.17	
			N551510	281.00	282.00	1.00	0.1	0.06	
			N551512	282.00	283.00	1.00	1.22	0.41	
283.00	285.25	**SYEN Syenite** Medium grey, massive, coarse syenite with minor pegmatitic sections in pink. No visible graphite. Lower contact sharp at 50 dca.	N551513	283.00	284.15	1.15	0.12	0.21	
			N551514	284.15	285.25	1.10	0.25	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
285.25	287.90	**GRPBX Graphitic Breccia** Medium to dark grey, brecciated syenite with graphite flooding in the matrix from upper contact to 285.8 and from 287.5 to 287.9. Broken core, minor fault gouge, 1cm fault at 286.7. Lower contact sharp at 90 dca.	N551516	285.25	286.10	0.85	1.04	0.26	
			N551517	286.10	287.00	0.90	0.39	0.08	
			N551518	287.00	287.90	0.90	0.97	0.23	
287.90	293.60	**FBX Felsic Breccia** Dark grey to black, very fine grained and banded matrix from upper contact to 290m. Very fine 1-3mm white fragments. Not conductive. From 290 to 293.6m medium grey matrix with subangular whitish fragments from 2mm up to 2cm the odd ones. Not conductive. Moderate to strong fracturing and minor fault gouge from 292.6 to 293.3m. Lower contact sharp at 60 dca.	N551519	287.90	289.00	1.10	4.66	0.32	
			N551520	289.00	290.00	1.00	3.33	0.3	
			N551521	290.00	291.00	1.00	2.7	0.31	
			N551522	291.00	291.90	0.90	2.64	0.18	
			N551523	291.90	292.80	0.90	1.97	0.14	
			N551525	292.80	293.60	0.80	4.7	0.06	
293.60	296.58	**IDP Intermediate Dike (Porphyritic)** Porphyritic dyke. Medium grey to greenish-grey, fine grained matrix. Whitish-grey to pink subhedral feldspar, phenocrysts and dark green, subrounded smaller 1-3mm amphibole phenocrysts. Not conductive. Lower contact sharp at 60 dca.	N551526	293.60	294.60	1.00	0.3	0.57	
			N551527	294.60	295.60	1.00	0.13	0.27	
			N551528	295.60	296.58	0.98	0.07	0.33	
296.58	301.62	**GRPBX Graphitic Breccia** Dark grey, matrix supported graphite breccia. Angular fragments 1mm to 3cm in a fine grained graphite flooded matrix. Lower contact sharp at 35 dca.	N551529	296.58	297.30	0.72	4.6	0.39	
			N551530	297.30	298.03	0.73	4.59	0.28	
			N551532	298.03	298.80	0.77	0.07	0.25	
			N551533	298.80	299.80	1.00	3.25	0.19	
			N551534	299.80	300.80	1.00	7.74	0.26	
			N551536	300.80	301.62	0.82	6.79	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
301.62	306.65	**ID Intermediate Dyke** Medium grey, fine grained, massive intermediate dyke. Not conductive. Lower contact sharp but irregular.	N551537	301.62	302.30	0.68	0.15	0.12	
			N551538	302.30	303.46	1.16	0.04	0.26	2.68
			N551539	303.46	304.60	1.14	0.07	0.04	2.67
			N551540	304.60	305.60	1.00	0.09	0.05	2.65
			N551541	305.60	306.65	1.05	0.04	0.08	2.66
306.65	321.15	**GRPBX Graphitic Breccia** Dark grey, coarse grained, brecciated syenite. Good graphite as fracture filling veinlets and as graphite flooding in the matrix.	N551542	306.65	307.70	1.05	7.23	0.26	2.65
			N551543	307.70	308.80	1.10	1.06	0.26	
			N551545	308.80	309.90	1.10	4.87	0.31	
			N551546	309.90	311.00	1.10	6.81	0.37	
			N551547	311.00	312.00	1.00	1.81	0.07	
			N551548	312.00	313.00	1.00	6.81	0.27	
			N551549	313.00	314.00	1.00	10.4	0.23	
			N551550	314.00	315.00	1.00	5.78	0.61	
			N551552	315.00	316.00	1.00	3.29	0.24	
			N551553	316.00	317.00	1.00	3.18	0.38	
			N551554	317.00	318.00	1.00	7.81	0.3	
			N551556	318.00	319.00	1.00	3.02	0.13	
			N551557	319.00	320.00	1.00	3.41	0.11	
			N551558	320.00	321.15	1.15	1.03	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
321.15	335.40	**FBX Felsic Breccia** Light grey to pink coarse grained brecciated syenite. Weak to locally moderate graphite overprinting as fracture filling graphite veinlets from upper contact to 323.5m. Moderate fracturing from 333.4 to 333.7m.	N551559	321.15	322.10	0.95	1.09	0.12	
			N551560	322.10	323.00	0.90	0.77	0.19	
			N551561	323.00	324.00	1.00	1.27	0.14	
			N551562	324.00	325.00	1.00	0.15	0.06	
			N551563	325.00	326.00	1.00	0.3	0.07	
			N551565	326.00	327.00	1.00	0.48	0.05	
			N551566	327.00	328.00	1.00	0.61	0.04	
			N551567	328.00	329.00	1.00	0.21	0.07	
			N551568	329.00	330.00	1.00	0.08	0.02	
			N551569	330.00	331.00	1.00	0.1	0.03	
			N551570	331.00	332.00	1.00	0.35	0.05	
			N551572	332.00	333.00	1.00	0.23	0.18	
			N551573	333.00	333.80	0.80	0.51	0.12	
			N551574	333.80	334.60	0.80	0.42	0.11	
			N551576	334.60	335.40	0.80	1.99	0.2	
335.40	336.50	**GRPBX Graphitic Breccia** Dark grey, coarse grained, brecciated syenite. Graphite as fracture filling and graphite flooding in the matrix. Lower contact sharp at 50 dca.	N551577	335.40	336.50	1.10	6.21	0.27	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
336.50	348.15	**SYENOP Syenite with Graphitic Overprinting** Medium grey, coarse grained massive syenite. Weak to locally moderate graphitic overprinting as fracture filling graphite veinlets from upper contact to 338, from 340.9 to 342.5 and from 346.5 to 347.5.	N551578	336.50	337.60	1.10	1.73	0.33	
			N551579	337.60	338.70	1.10	0.28	0.26	
			N551580	338.70	339.80	1.10	0.25	0.18	
			N551581	339.80	340.90	1.10	0.78	0.14	
			N551582	340.90	342.00	1.10	1.84	0.1	
			N551583	342.00	343.00	1.00	1.04	0.1	
			N551585	343.00	344.00	1.00	0.69	0.37	
			N551586	344.00	345.00	1.00	1.58	1.29	
			N551587	345.00	346.00	1.00	0.25	0.18	
			N551588	346.00	347.00	1.00	0.25	0.2	
			N551589	347.00	348.15	1.15	0.38	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
348.15	393.00	**SYENSL Syenite Sill (unmineralized)** Greenish-grey, coarse, massive intrusive. Not conductive. Fairly uniform. EOH 393.0m	N551590	348.15	349.10	0.95	0.03	0.07	
			N551592	349.10	350.00	0.90	0.05	0.02	
			N551593	350.00	351.00	1.00	0.08	0.08	
			N551594	351.00	352.50	1.50	0.03	0.05	
			N551596	352.50	354.00	1.50	0.03	0.03	
			N551597	354.00	355.50	1.50	0.06	0.03	
			N551598	355.50	357.00	1.50	0.05	0.01	
			N551599	357.00	358.50	1.50	0.04	0.02	
			N551600	358.50	360.00	1.50	0.04	0.03	
			N551601	360.00	361.50	1.50	0.13	0.09	
			N551602	361.50	363.00	1.50	0.06	0.03	
			N551603	363.00	364.00	1.00	0.02	0.04	
			N551605	364.00	365.10	1.10	0.03	0.03	
			N551606	365.10	366.18	1.08	0.02	0.07	
			N551607	366.18	367.40	1.22	0.09	0.1	
			N551608	367.40	368.60	1.20	0.1	0.11	
			N551609	368.60	370.00	1.40	0.03	0.02	
			N551610	370.00	371.00	1.00	0.02	0.03	
			N551612	371.00	372.00	1.00	0.02	0.02	
			N551613	372.00	373.50	1.50	0.14	0.01	
			N551614	373.50	375.00	1.50	0.03	0.02	
			N551616	375.00	376.50	1.50	0.06	0.02	
			N551617	376.50	378.00	1.50	0.03	0.02	
			N551618	378.00	379.50	1.50	0.02	0.01	
			N551619	379.50	381.00	1.50	0.09	0.02	
			N551620	381.00	382.50	1.50	0.04	0.03	
			N551621	382.50	384.00	1.50	0.11	0.03	
			N551622	384.00	385.50	1.50	0.06	0.02	
			N551623	385.50	387.00	1.50	0.09	0.04	
			N551625	387.00	388.50	1.50	0.01	0.01	
			N551626	388.50	390.00	1.50	0.09	0.03	
			N551627	390.00	391.50	1.50	0.05	0.02	
			N551628	391.50	393.00	1.50	0.09	0.01	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Metallurgy hole	624.69	20/08/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545700.4	682957			Hand-held GPS	29/08/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.00	332.00		-85.00	Chibougamau Diamond Drilling	31/08/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Mike Roberts	Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☑	☑	☑

Core Size (1)	HQ	573.69	*Casing Pulled*	*Casing (1)*	51.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
First hole to obtain material for metallurgical testing. The steep dip of the hole is to keep it in the confines of the east pipe.	Approx. 290m of graphitic breccia material was intersected and will be available for metullurgical testing. Two unmineralized syenite sill units were intersected at 347.00m to 383.00m and 512.22m to 577.76m. Two additional holes are planned, as not enough samples were taken to get the 5 tonne total. From 48.00m to 512.22m the assays from this intersection averaged 4.47% Cg over 464.22m; within this intersection a higher grade graphite zone from 48.00m to 303.50m averaged 5.46% Cg over 255.50m.	Elevation estimated, water pump on hole. Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
72.00			344.2	335.2	-85.2	-85.2	☑	Reflex EZ	57595	
75.00			344.1	335.1	-85.3	-85.3	☑	Reflex EZ	56714	
78.00			344.3	335.3	-85.3	-85.3	☑	Reflex EZ	56391	
81.00			345.2	336.2	-85.3	-85.3	☑	Reflex EZ	56287	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			345.4	336.4	-85.3	-85.3	☑	Reflex EZ	56226	
87.00			344.2	335.2	-85.3	-85.3	☑	Reflex EZ	56237	
90.00			344.5	335.5	-85.3	-85.3	☑	Reflex EZ	56218	
93.00			344.2	335.2	-85.3	-85.3	☑	Reflex EZ	56173	
96.00			344.7	335.7	-85.3	-85.3	☑	Reflex EZ	56170	
99.00			344.8	335.8	-85.3	-85.3	☑	Reflex EZ	56241	
102.00			344.3	335.3	-85.3	-85.3	☑	Reflex EZ	56147	
105.00			345.8	336.8	-85.4	-85.4	☑	Reflex EZ	56136	
108.00			345.3	336.3	-85.3	-85.3	☑	Reflex EZ	56262	
117.00			345.6	336.6	-85.3	-85.3	☑	Reflex EZ	56257	
120.00			344.5	335.5	-85.3	-85.3	☑	Reflex EZ	56234	
123.00			346.3	337.3	-85.3	-85.3	☑	Reflex EZ	56277	
126.00			346.6	337.6	-85.3	-85.3	☑	Reflex EZ	56279	
138.00			346.4	337.4	-85.3	-85.3	☑	Reflex EZ	56176	
141.00			346.5	337.5	-85.3	-85.3	☑	Reflex EZ	56198	
144.00			345.5	336.5	-85.2	-85.2	☑	Reflex EZ	56183	
147.00			345.8	336.8	-85.3	-85.3	☑	Reflex EZ	56186	
150.00			349.4	340.4	-85.4	-85.4	☑	Reflex EZ	56181	
153.00			349.7	340.7	-85.3	-85.3	☑	Reflex EZ	56175	
156.00			348	339	-85.3	-85.3	☑	Reflex EZ	56165	
162.00			349.9	340.9	-85.3	-85.3	☑	Reflex EZ	56181	
165.00			346.4	337.4	-85.4	-85.4	☑	Reflex EZ	56173	
168.00			345.4	336.4	-85.3	-85.3	☑	Reflex EZ	56162	
171.00			348.2	339.2	-85.4	-85.4	☑	Reflex EZ	56166	
174.00			347.8	338.8	-85.5	-85.5	☑	Reflex EZ	56186	
177.00			347.5	338.5	-85.3	-85.3	☑	Reflex EZ	56201	
180.00			348.2	339.2	-85.3	-85.3	☑	Reflex EZ	56170	
183.00			346.8	337.8	-85.3	-85.3	☑	Reflex EZ	56180	
186.00			348	339	-85.4	-85.4	☑	Reflex EZ	56128	
189.00			347	338	-85.3	-85.3	☑	Reflex EZ	56182	
192.00			345.9	336.9	-85.2	-85.2	☑	Reflex EZ	56185	
195.00			345.9	336.9	-85.3	-85.3	☑	Reflex EZ	56148	
198.00			346	337	-85.3	-85.3	☑	Reflex EZ	56176	
201.00			349.2	340.2	-85.4	-85.4	☑	Reflex EZ	56152	
204.00			349.8	340.8	-85.3	-85.3	☑	Reflex EZ	56154	
207.00			348	339	-85.2	-85.2	☑	Reflex EZ	56168	
210.00			345.8	336.8	-85.3	-85.3	☑	Reflex EZ	56144	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
213.00			346.8	337.8	-85.3	-85.3	☑	Reflex EZ	56167	
216.00			348.7	339.7	-85.5	-85.5	☑	Reflex EZ	56134	
219.00			348.4	339.4	-85.3	-85.3	☑	Reflex EZ	56163	
222.00			347	338	-85.3	-85.3	☑	Reflex EZ	56179	
225.00			347.7	338.7	-85.4	-85.4	☑	Reflex EZ	56152	
228.00			347.2	338.2	-85.4	-85.4	☑	Reflex EZ	56132	
231.00			348.5	339.5	-85.4	-85.4	☑	Reflex EZ	56171	
234.00			348.6	339.6	-85.5	-85.5	☑	Reflex EZ	56130	
237.00			346.6	337.6	-85.3	-85.3	☑	Reflex EZ	56174	
240.00			345.8	336.8	-85.4	-85.4	☑	Reflex EZ	56157	
243.00			345.6	336.6	-85.4	-85.4	☑	Reflex EZ	56175	
246.00			349.1	340.1	-85.5	-85.5	☑	Reflex EZ	56122	
249.00			345.1	336.1	-85.4	-85.4	☑	Reflex EZ	56124	
252.00			348.6	339.6	-85.4	-85.4	☑	Reflex EZ	56108	
255.00			346.5	337.5	-85	-85	☑	Reflex EZ	56157	
258.00			345.1	336.1	-85.4	-85.4	☑	Reflex EZ	56155	
261.00			345.4	336.4	-85.4	-85.4	☑	Reflex EZ	56137	
264.00			349.2	340.2	-85.4	-85.4	☑	Reflex EZ	56117	
267.00			346.1	337.1	-85.3	-85.3	☑	Reflex EZ	56111	
270.00			347.8	338.8	-85.5	-85.5	☑	Reflex EZ	56145	
273.00			350	341	-85.3	-85.3	☑	Reflex EZ	56150	
276.00			347.2	338.2	-85.3	-85.3	☑	Reflex EZ	56117	
279.00			344.8	335.8	-85.4	-85.4	☑	Reflex EZ	56155	
282.00			345.4	336.4	-85.3	-85.3	☑	Reflex EZ	55736	
285.00			347.8	338.8	-85.4	-85.4	☑	Reflex EZ	56212	
288.00			347	338	-85.4	-85.4	☑	Reflex EZ	56166	
291.00			345.9	336.9	-85.4	-85.4	☑	Reflex EZ	56159	
294.00			345.6	336.6	-85.4	-85.4	☑	Reflex EZ	56069	
297.00			348	339	-85.4	-85.4	☑	Reflex EZ	56227	
300.00			345.4	336.4	-85.4	-85.4	☑	Reflex EZ	56162	
303.00			346.5	337.5	-85.3	-85.3	☑	Reflex EZ	56148	
306.00			349	340	-85.3	-85.3	☑	Reflex EZ	56017	
309.00			346	337	-85.3	-85.3	☑	Reflex EZ	56154	
312.00			346	337	-85.3	-85.3	☑	Reflex EZ	56121	
315.00			348.2	339.2	-85.4	-85.4	☑	Reflex EZ	56189	
318.00			345.7	336.7	-85.4	-85.4	☑	Reflex EZ	56111	
321.00			349.4	340.4	-85.5	-85.5	☑	Reflex EZ	56037	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
324.00			345.5	336.5	-85.3	-85.3	☑	Reflex EZ	56234	
327.00			348.4	339.4	-85.4	-85.4	☑	Reflex EZ	56044	
330.00			346.2	337.2	-85.3	-85.3	☑	Reflex EZ	55836	
333.00			345.5	336.5	-85.3	-85.3	☑	Reflex EZ	56239	
336.00			346.4	337.4	-85.4	-85.4	☑	Reflex EZ	56184	
339.00			348.3	339.3	-85.5	-85.5	☑	Reflex EZ	56215	
342.00			350.3	341.3	-85.2	-85.2	☑	Reflex EZ	56295	
348.00			347.6	338.6	-85.3	-85.3	☑	Reflex EZ	56206	
351.00			345.9	336.9	-85.4	-85.4	☑	Reflex EZ	55832	
354.00			347	338	-85.4	-85.4	☑	Reflex EZ	55856	
357.00			346.6	337.6	-85.5	-85.5	☑	Reflex EZ	56076	
360.00			346.7	337.7	-85.3	-85.3	☑	Reflex EZ	56091	
363.00			349.9	340.9	-85.3	-85.3	☑	Reflex EZ	56004	
366.00			346.5	337.5	-85.3	-85.3	☑	Reflex EZ	55913	
369.00			348	339	-85.3	-85.3	☑	Reflex EZ	56044	
372.00			346.6	337.6	-85.2	-85.2	☑	Reflex EZ	55946	
375.00			349.2	340.2	-85.4	-85.4	☑	Reflex EZ	55990	
378.00			347.2	338.2	-85.3	-85.3	☑	Reflex EZ	56202	
381.00			349.8	340.8	-85.5	-85.5	☑	Reflex EZ	55929	
384.00			349.4	340.4	-85.5	-85.5	☑	Reflex EZ	56003	
387.00			349.9	340.9	-85.5	-85.5	☑	Reflex EZ	56141	
390.00			349.4	340.4	-85.5	-85.5	☑	Reflex EZ	56154	
393.00			348.3	339.3	-85.3	-85.3	☑	Reflex EZ	56189	
396.00			347.8	338.8	-85.3	-85.3	☑	Reflex EZ	56178	
399.00			350.2	341.2	-85.4	-85.4	☑	Reflex EZ	56160	
402.00			350.4	341.4	-85	-85	☑	Reflex EZ	56173	
405.00			346.9	337.9	-85.3	-85.3	☑	Reflex EZ	56062	
408.00			347.4	338.4	-85.3	-85.3	☑	Reflex EZ	56138	
411.00			347.2	338.2	-85.3	-85.3	☑	Reflex EZ	56240	
414.00			350.1	341.1	-85.4	-85.4	☑	Reflex EZ	56221	
417.00			346	337	-85.2	-85.2	☑	Reflex EZ	56149	
420.00			347	338	-85.3	-85.3	☑	Reflex EZ	56208	
423.00			346	337	-85.3	-85.3	☑	Reflex EZ	56152	
426.00			346	337	-85.3	-85.3	☑	Reflex EZ	56133	
429.00			347	338	-85.5	-85.5	☑	Reflex EZ	56209	
432.00			347.7	338.7	-85.4	-85.4	☑	Reflex EZ	56253	
435.00			347.9	338.9	-85.4	-85.4	☑	Reflex EZ	56167	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
438.00			346.9	337.9	-85.3	-85.3	☑	Reflex EZ	56072	
441.00			345.7	336.7	-85.3	-85.3	☑	Reflex EZ	56240	
444.00			344.8	335.8	-85.2	-85.2	☑	Reflex EZ	56329	
447.00			346.3	337.3	-85.4	-85.4	☑	Reflex EZ	56121	
450.00			346.5	337.5	-85.3	-85.3	☑	Reflex EZ	56074	
453.00			349.3	340.3	-85.2	-85.2	☑	Reflex EZ	56142	
456.00			349.3	340.3	-85.2	-85.2	☑	Reflex EZ	56091	
459.00			348.8	339.8	-85.1	-85.1	☑	Reflex EZ	56341	
462.00			350.8	341.8	-85.3	-85.3	☑	Reflex EZ	56087	
465.00			348.3	339.3	-85.1	-85.1	☑	Reflex EZ	56122	
468.00			347.9	338.9	-85.3	-85.3	☑	Reflex EZ	56077	
471.00			346.6	337.6	-85.3	-85.3	☑	Reflex EZ	55999	
474.00			346.6	337.6	-85.4	-85.4	☑	Reflex EZ	56088	
477.00			346.9	337.9	-85.2	-85.2	☑	Reflex EZ	56093	
480.00			347.6	338.6	-85.4	-85.4	☑	Reflex EZ	56223	
483.00			346.6	337.6	-85.2	-85.2	☑	Reflex EZ	56106	
486.00			347.5	338.5	-85.4	-85.4	☑	Reflex EZ	56047	
489.00			347.1	338.1	-85.3	-85.3	☑	Reflex EZ	56177	
492.00			350.6	341.6	-85.4	-85.4	☑	Reflex EZ	56116	
495.00			350.1	341.1	-85.4	-85.4	☑	Reflex EZ	56245	
498.00			350.5	341.5	-85.4	-85.4	☑	Reflex EZ	56187	
501.00			348.6	339.6	-85.3	-85.3	☑	Reflex EZ	56267	
504.00			350.4	341.4	-85.4	-85.4	☑	Reflex EZ	56089	
507.00			347.1	338.1	-85.4	-85.4	☑	Reflex EZ	55977	
510.00			350.9	341.9	-85.4	-85.4	☑	Reflex EZ	55881	
513.00			349	340	-85.3	-85.3	☑	Reflex EZ	56234	
516.00			350.1	341.1	-85.3	-85.3	☑	Reflex EZ	56187	
519.00			347.4	338.4	-85.3	-85.3	☑	Reflex EZ	56291	
522.00			350	341	-85.4	-85.4	☑	Reflex EZ	56278	
525.00			349.8	340.8	-85.4	-85.4	☑	Reflex EZ	56212	
528.00			346.7	337.7	-85.2	-85.2	☑	Reflex EZ	56185	
531.00			346.1	337.1	-85.3	-85.3	☑	Reflex EZ	56093	
534.00			349.5	340.5	-85.3	-85.3	☑	Reflex EZ	56262	
537.00			348.2	339.2	-85.4	-85.4	☑	Reflex EZ	56197	
540.00			347.8	338.8	-85.4	-85.4	☑	Reflex EZ	56219	
543.00			350.6	341.6	-85.3	-85.3	☑	Reflex EZ	56077	
546.00			348.4	339.4	-85.3	-85.3	☑	Reflex EZ	56083	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
549.00			348.4	339.4	-85.4	-85.4	☑	Reflex EZ	55817	
552.00			347.6	338.6	-85.3	-85.3	☑	Reflex EZ	56213	
555.00			348.2	339.2	-85.3	-85.3	☑	Reflex EZ	56021	
558.00			347.9	338.9	-85.3	-85.3	☑	Reflex EZ	55609	
561.00			347.9	338.9	-85.3	-85.3	☑	Reflex EZ	56037	
564.00			348	339	-85.4	-85.4	☑	Reflex EZ	56089	
567.00			350.6	341.6	-85.4	-85.4	☑	Reflex EZ	55954	
570.00			348.5	339.5	-85.3	-85.3	☑	Reflex EZ	56166	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	42.30	**OB Overburden** Rubble/boulders all but one limestone, one granite.							
42.30	47.15	**SED Sediment** Limestone with mudstone from 45.37 - 46.20.							
47.15	64.28	**GRPBX Graphitic Breccia** Dark grey with weathered white to pink fragments. Fragments range from <1cm to ~50cm. Strong graphite between fragments and in fractures within fragments. Some rubble areas @ 47.54 - 48.73, 50.45 - 51.45, 61.13 - 62.70m. There is a concentration of carbonate veinlets between 53.50 - 57.00m cross cutting the core close to perpendicular.	N546816	47.15	48.00	0.85	0.13	0.61	
			N546817	48.00	49.00	1.00	2.69	0.24	
			N546818	49.00	50.00	1.00	5.26	0.11	
			N546819	50.00	51.00	1.00	5.17	0.04	
			N546820	51.00	52.00	1.00	7.54	0.17	
			N546821	52.00	53.00	1.00	5.48	0.02	
			N546822	53.00	54.00	1.00	3.06	0.1	
			N546823	54.00	55.00	1.00	9.8	0.06	
			N546825	55.00	56.00	1.00	9.31	0.1	
			N546826	56.00	57.00	1.00	9.33	0.08	
			N546827	57.00	58.00	1.00	9.22	0.04	
			N546828	58.00	59.00	1.00	7.91	0.11	
			N546829	59.00	60.00	1.00	5.42	0.02	
			N546830	60.00	61.00	1.00	5.13	0.04	
			N546831	60.00	61.00	1.00	5.25	0.04	
			N546832	61.00	62.00	1.00	8.45	0.02	
			N546833	62.00	63.00	1.00	4.45	0.02	
			N546834	63.00	63.70	0.70	3.38	0.02	
			N546836	63.70	64.13	0.43	3.68	0.07	
			N546837	64.13	65.00	0.87	0.15	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
64.28	72.40	**SYEN Syenite** Pink to grey/pink in colour and hard. The unit is more pink and has some carbonate stringers from the upper contact to 65m. The rock is more grey from 65.00 - 67.30m. From 67.30 - 68.8 it becomes more reddish again near a possible fault or shear zone between 67.75 - 67.90m. At 68.50 - 69.48 there is some minor brecciation with graphite infilling and from 69.48 to 72.40 the syenite has a graphite over printing. It could be possible that the two syenite sections are extremely large fragments within the breccia??	N546838	65.00	66.00	1.00	0.29	0.15	
			N546839	66.00	67.00	1.00	0.15	0.3	
			N546840	67.00	68.00	1.00	0.38	0.31	
			N546841	68.00	69.00	1.00	4.02	0.21	
			N546842	69.00	70.00	1.00	4.38	0.05	
			N546843	70.00	71.00	1.00	0.43	0.11	
			N546845	71.00	71.70	0.70	0.19	0.29	
			N546846	71.70	72.40	0.70	0.97	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
72.40	- 105.68	**GRPBX Graphitic Breccia** Grey to greenish grey and pink fragments within a matrix of moderate to strong graphite. There is also graphite fracture filling in some of the fragments. The grey and pink fragments are likely syenite and some of the greenish fragments are more likely mafic. Fragments range from very small to between 50 - 100cm in size and also range from well rounded to angular. There is some minor py blebs found throughout this unit usually found in the matrix and sometimes associated with carbonate in fractures, there is less than 1% py. Some fractures within this unit have moderate pale green malachite staining, these fractures seem to be mostly within clasts of the syenite.	N546847	72.40	73.00	0.60	10.75	0.04	
			N546848	73.00	74.00	1.00	8.01	0.1	
			N546849	74.00	75.00	1.00	5.98	0.14	
			N546850	75.00	76.00	1.00	6.67	0.1	
			N546851	75.00	76.00	1.00	6.64	0.08	
			N546852	76.00	77.00	1.00	7.72	0.16	
			N546853	77.00	78.00	1.00	2.19	0.09	
			N546854	78.00	79.00	1.00	6.81	0.07	
			N546856	79.00	80.00	1.00	9.71	0.14	
			N546857	80.00	81.00	1.00	2.94	0.08	
			N546858	81.00	82.00	1.00	8.4	0.07	
			N546859	82.00	83.00	1.00	2.42	0.25	
			N546860	83.00	84.00	1.00	9.43	0.16	
			N546861	84.00	85.00	1.00	9.09	0.16	
			N546862	85.00	86.00	1.00	6.08	0.13	
			N546863	86.00	87.00	1.00	6.85	0.15	
			N546865	87.00	88.00	1.00	6.31	0.1	
			N546866	88.00	89.00	1.00	6.73	0.14	
			N546867	89.00	90.00	1.00	5.45	0.21	
			N546868	90.00	91.00	1.00	2.51	0.2	
			N546869	91.00	92.00	1.00	4.63	0.22	
			N546870	92.00	93.00	1.00	9.02	0.23	
			N546871	92.00	93.00	1.00	8.81	0.22	
			N546872	93.00	94.00	1.00	9.71	0.24	
			N546873	94.00	95.00	1.00	8.85	0.26	
			N546874	95.00	96.00	1.00	6.97	0.18	
			N546876	96.00	97.00	1.00	6.85	0.22	
			N546877	97.00	98.00	1.00	5.45	0.24	
			N546878	98.00	99.00	1.00	6.93	0.15	
			N546879	99.00	100.00	1.00	9.34	0.26	
			N546880	100.00	101.00	1.00	8.37	0.19	
			N546881	101.00	102.00	1.00	9.34	0.33	
			N546882	102.00	103.00	1.00	2.03	0.11	
			N546883	103.00	104.00	1.00	7.13	0.33	
			N546885	104.00	105.00	1.00	7.59	0.17	
			N546886	105.00	105.68	0.68	4.35	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
105.68 -	107.55	**SYENOP Syenite with Graphitic Overprinting** Pinkish grey, medium grey and hard. This unit also has malachite (or possibly chlorite) staining along some fractures. There is a very faint overprinting of graphite in this syenite. The top contact is at 90 deg to core axis and the bottom is ~50 deg. This could be a syenite dyke or possibly a large unaltered fragment in the breccia?	N546887	105.68	106.68	1.00	0.45	0.26	
			N546888	106.68	107.55	0.87	0.54	0.31	
107.55 -	118.10	**GRPBX Graphitic Breccia** Dark grey with grey pink fragments. There seems to be a larger percent of bigger +10cm fragments in this section but more fracture filling within these fragments; between 107.55 - 111.00 py in fractures is a bit more abundant than the rest of the hole but is still <1% below. 111.00 the py becomes trace and blebby. From around 116.50 - 118.1 the Graphite becomes more intense.	N546889	107.55	108.20	0.65	9.22	0.34	
			N546891	108.20	109.00	0.80	5.63	0.24	
			N546890	108.20	109.00	0.80	5.77	0.24	
			N546892	109.00	110.00	1.00	6.94	0.28	
			N546893	110.00	111.00	1.00	4.6	0.16	
			N546894	111.00	112.00	1.00	6.24	0.31	
			N546896	112.00	113.00	1.00	4.14	0.27	
			N546897	113.00	114.00	1.00	1.53	0.32	
			N546898	114.00	115.00	1.00	10.4	0.23	
			N546899	115.00	116.00	1.00	6.13	0.2	
			N546900	116.00	117.00	1.00	7.09	0.22	
			N546901	117.00	118.10	1.10	12	0.25	
118.10 -	120.00	**SYENOP Syenite with Graphitic Overprinting** Light grey to greyish pink. The entire section is very fractured and rubbly. The Graphite overprint is higher in this Syenite than in the Syenite above.	N546902	118.10	119.00	0.90	0.37	0.23	
			N546903	119.00	120.00	1.00	0.42	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
120.00	141.33	**GRPBX Graphitic Breccia** Grey with dark grey with moderate to high graphitic content in matrix. Fragments range from <1cm to ~30cm. Some py associated with the matrix and sometimes also within fractures; in some instances there is also carbonate associated with the py in fractures. 135.93 - 136.33 and 137.60 - 138.3, these areas have very intense graphite within the matrix. 139.78 - 140.6 mafic dyke with chloritic alteration and hematite staining along fractures; upper contact 70dca, lower contact 77dca.There is a 4 - 8cm bleb near the lower contact of the breccia at 141.20m.	N546905	120.00	121.00	1.00	4.94	0.29	
			N546906	121.00	122.00	1.00	6.57	0.18	
			N546907	122.00	123.00	1.00	6.86	0.26	
			N546908	123.00	124.00	1.00	10.5	0.27	
			N546909	124.00	125.00	1.00	9.23	0.26	
			N546910	125.00	126.00	1.00	7.52	0.31	
			N546911	125.00	126.00	1.00	7.97	0.32	
			N546912	126.00	127.00	1.00	6.14	0.34	
			N546913	127.00	128.00	1.00	9.91	0.26	
			N546914	128.00	129.00	1.00	10.65	0.38	
			N546916	129.00	130.00	1.00	6.3	0.33	
			N546917	130.00	131.00	1.00	10.5	0.33	
			N546918	131.00	132.00	1.00	10.4	0.25	
			N546919	132.00	133.00	1.00	4.69	0.28	
			N546920	133.00	134.00	1.00	6.92	0.23	
			N546921	134.00	135.00	1.00	6.7	0.22	
			N546922	135.00	136.00	1.00	7.17	0.38	
			N546923	136.00	137.00	1.00	4.31	0.33	
			N546925	137.00	138.00	1.00	8.82	0.34	
			N546926	138.00	139.00	1.00	13	0.22	
			N546927	139.00	140.00	1.00	10.8	0.57	
			N546928	140.00	140.65	0.65	12.5	0.26	
			N546929	140.65	141.33	0.68	11.5	0.23	
141.33	144.20	**FDOP Felsic Dyke with Graphitic Overprinting** The first 50cm of this dyke resembles other areas of syenite with the greyish pink colour and medium grained texture. At 141.83 the rock becomes very fractured and rubbly until 142.3. At 142.45 a quartz carbonate vein with graphite infilling cuts through the core at 65-70dca, there is a 10cm halo around this vein where the rock is salmon pink. From this vein to the bottom contact at 144.2 the rock is a grey to green colour and very hard, it also has a slight porphyritic texture. The entire unit has a weak to moderate graphitic overprint but more weak towards the middle section.	N546931	141.33	142.30	0.97	0.18	0.33	
			N546930	141.33	142.30	0.97	0.15	0.32	
			N546932	142.30	143.30	1.00	0.03	0.26	
			N546933	143.30	144.22	0.92	0.02	0.09	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
144.20 -	175.75	**GRPBX Graphitic Breccia** This section of the graphitic breccia has some intense areas of graphite over printing and fracture infilling, there seems to be large fragments more of which are SYENOP and not mafic. In some areas of this section the SYENOP fragments have less fracture filling but seem to be more strongly overprinted with graphite. 146.34 - 149.30m has some more intense graphite over printing and fracture filling . 161.46 - 161.54m small possibly altered mafic dyke with thin carbonate veinlets running through fractures. At 171.92 there is a 5 - 8cm bleb of graphite filling the matrix around some syenite fragments.	N546934	144.22	145.00	0.78	8.71	0.22	
			N546936	145.00	146.00	1.00	9.47	0.34	
			N546937	146.00	147.00	1.00	8.05	0.5	
			N546938	147.00	148.00	1.00	7.46	0.29	
			N546939	148.00	149.00	1.00	9.65	0.95	
			N546940	149.00	150.00	1.00	10.3	0.41	
			N546941	150.00	151.00	1.00	9	0.43	
			N546942	151.00	152.00	1.00	8.27	0.34	
			N546943	152.00	153.00	1.00	4.95	0.32	
			N546945	153.00	154.00	1.00	6.64	0.37	
			N546946	154.00	155.00	1.00	8.83	0.38	
			N546947	155.00	156.00	1.00	8.69	0.29	
			N546948	156.00	157.00	1.00	8.66	0.37	
			N546949	157.00	158.00	1.00	4.84	0.31	
			N546950	158.00	159.00	1.00	7.62	0.3	
			N546951	158.00	159.00	1.00	7.72	0.3	
			N546952	159.00	160.00	1.00	8.14	0.23	
			N546953	160.00	161.00	1.00	11.4	0.56	
			N546954	161.00	162.00	1.00	5.15	0.33	
			N546956	162.00	163.00	1.00	12.05	0.39	
			N546957	163.00	164.00	1.00	7.56	0.33	
			N546958	164.00	165.00	1.00	13.5	0.36	
			N546959	165.00	166.00	1.00	15.15	0.35	
			N546960	166.00	167.00	1.00	4.92	0.29	
			N546961	167.00	168.00	1.00	3.29	0.42	
			N546962	168.00	169.00	1.00	9.89	0.3	
			N546963	169.00	170.00	1.00	8.25	0.3	
			N546965	170.00	171.00	1.00	9.37	0.42	
			N546966	171.00	172.00	1.00	10.8	0.4	
			N546967	172.00	173.00	1.00	5.75	0.3	
			N546968	173.00	174.00	1.00	9.1	0.26	
			N546969	174.00	175.00	1.00	6.24	0.37	
			N546971	175.00	175.75	0.75	13.95	0.91	
			N546970	175.00	175.75	0.75	13.35	0.93	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
175.75	177.62	**SYENOP Syenite with Graphitic Overprinting** Grey with white and pink, hard, some minor fracturing at 177m. Minor conductivity getting stronger near the contacts with the graphitic breccia. There is also minor fracture filling.	N546972	175.75	176.50	0.75	1.18	0.18	
			N546973	176.50	177.62	1.12	0.62	0.3	
177.62	192.47	**GRPBX Graphitic Breccia** Grey to dark grey with white to pinkish white fragments ranging in size from <1 - ~50cm. The graphite in the matrix is still strong but there is becoming less matrix in areas. Some of the rocks seem to be more in situ with each other and have small fractures filled with graphite between them. There are a few pink syenitic dykelets within this unit @ 181.31, 181.56, 182.65. 184.28, 188.84 and 189.10m all of these are >85dca and the widest one is ~7cm. At 189.18 there is a larger 37cm syenite dyke at	N546974	177.62	178.20	0.58	15.25	0.35	
			N546976	178.20	179.00	0.80	12.4	0.26	
			N546977	179.00	180.00	1.00	10.3	0.28	
			N546978	180.00	181.00	1.00	15.3	0.38	
			N546979	181.00	182.00	1.00	4.31	0.33	
			N546980	182.00	183.00	1.00	11	0.37	
			N546981	183.00	184.00	1.00	10.35	0.36	
			N546982	184.00	185.00	1.00	5.45	0.35	
			N546983	185.00	186.00	1.00	8.42	0.28	
			N546985	186.00	187.00	1.00	2.93	0.34	
			N546986	187.00	188.00	1.00	6.9	0.38	
			N546987	188.00	189.00	1.00	11.4	0.33	
			N546988	189.00	190.00	1.00	6.66	0.49	
			N546989	190.00	191.00	1.00	10.9	0.28	
			N546990	191.00	191.75	0.75	10.35	0.3	
			N546991	191.00	191.75	0.75	10.55	0.29	
			N546992	191.75	192.47	0.72	13.6	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
192.47	202.07	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, medium to coarse grained and hard. This Syenite is weak to moderately conductive and has moderate graphite fracture filling and minor carbonate fracture filling. At 200.00 and 200.75m there are small mafic dykes with minor graphite associated with them.	N546993	192.47	193.25	0.78	1.78	0.39	
			N546994	193.25	194.00	0.75	1.26	0.35	
			N546996	194.00	195.00	1.00	2.99	0.35	2.57
			N546997	195.00	196.00	1.00	1.96	0.24	2.59
			N546998	196.00	197.00	1.00	1.67	0.3	2.6
			N546999	197.00	198.00	1.00	0.57	0.34	2.54
			N547000	198.00	199.00	1.00	0.46	0.41	2.63
			N547001	199.00	200.00	1.00	0.94	0.29	
			N547002	200.00	201.00	1.00	2.28	0.2	
			N547003	201.00	202.07	1.07	1.33	0.47	
202.07	211.79	**GRPBX Graphitic Breccia** Grey to white and light pink fragments in a graphitic matrix. This breccia is similar to the matrix above in that there are areas in which the matrix seems to be strong fracture filling, this could be that these are larger fragments with fracture filling. At 209.2m there is a fault identified by ~2cm of fault gouge and moderate fracturing/rubble for ~10cm on both sides.	N547005	202.07	203.00	0.93	4.46	0.41	
			N547006	203.00	204.00	1.00	10	0.31	
			N547007	204.00	205.00	1.00	5.6	0.22	
			N547008	205.00	206.00	1.00	3.95	0.24	
			N547009	206.00	207.00	1.00	2.42	0.34	
			N547011	207.00	208.00	1.00	3.4	0.32	
			N547010	207.00	208.00	1.00	3.67	0.31	
			N547012	208.00	209.00	1.00	4.77	0.33	
			N547013	209.00	210.00	1.00	5.96	0.22	
			N547014	210.00	211.00	1.00	5.63	0.32	
			N547016	211.00	211.79	0.79	1.95	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
211.79	214.46	**SYENOP Syenite with Graphitic Overprinting** Grey to pink medium grained and hard. This section has minor graphite filled fractures more abundant from the top contact to 213m, there is also minor carbonate fracture filling. The last 16cm, 214.29 - 214.46m is a felsic dyke crosscutting the core perpendicular. It seems from here on in this hole there are alternating syenites and narrower brecciated areas of varying widths, this could be that there are very large fragments of syenite of that there are layers of breccia between the syenite??	N547017	211.79	212.80	1.01	1.3	0.31	
			N547018	212.80	213.80	1.00	0.56	0.46	
			N547019	213.80	214.46	0.66	1	0.38	
214.46	214.82	**GRPBX Graphitic Breccia** Narrow brecciated unit between two syenites. Fragments are all syenite, are rounded to sub-angular and are in a matrix of graphite.	N547020	214.46	214.82	0.36	9.97	0.82	
214.82	219.20	**SYENOP Syenite with Graphitic Overprinting** Medium to coarse grained Syenite with minor graphitic over printing and fracture filling. The graphitic fracture filling is slightly more predominant between 218.10 - 218.60.	N547021	214.82	215.90	1.08	1.99	0.42	
			N547022	215.90	217.00	1.10	0.56	0.36	
			N547023	217.00	218.00	1.00	0.73	0.41	
			N547025	218.00	219.20	1.20	1.5	0.44	
219.20	222.60	**GRPBX Graphitic Breccia** Grey to pink fragments with moderate to strong over printing, dark grey graphitic matrix. Fragments up to 20cm in size, mostly sub angular. 221.35 - 221.85 the graphite seems to be more of a fracture filling between elongated fragments that seem to be more insitu. The 10cm before the lower contact is more intensely graphitic.	N547026	219.20	220.00	0.80	10.8	0.3	
			N547027	220.00	221.00	1.00	7.71	0.27	
			N547028	221.00	221.80	0.80	7.15	0.2	
			N547029	221.80	222.60	0.80	7.36	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.60	226.00	**SYENOP Syenite with Graphitic Overprinting** Greyish pink, medium to coarse grained and hard. The unit is weakly to moderately conductive. There is minor graphitic fracture filling. At 224.58 there is a 2cm and at 224.92 a 5cm section of stronger fracture filling.	N547031	222.60	223.40	0.80	0.8	0.23	
			N547030	222.60	223.40	0.80	0.8	0.23	
			N547032	223.40	224.20	0.80	1.46	0.2	
			N547033	224.20	225.00	0.80	1.15	0.17	
			N547034	225.00	226.00	1.00	1.64	0.21	
226.00	227.00	**GRPBX Graphitic Breccia** Grey pink subangular fragments within a graphitic matrix. This 1m section again seems more like intense fracture filling with the fragments still insitu comparative to each other. It is more brecciated and graphitic near the contacts.	N547036	226.00	227.00	1.00	6.24	0.3	
227.00	229.48	**SYENOP Syenite with Graphitic Overprinting** Grey pink in colour, fine to coarse grained and hard. This section of Syenite is weakly to moderately conductive and has minor graphitic fracture filling. There is also moderate carbonate in fine fractures. Between 228.15 - 228.75 there is a section that looks mildly brecciated with a stronger graphitic presence in the fractures. From 229 to the lower contact the rock becomes more pink especially along fractures due to the felsic intrusion below.	N547037	227.00	228.00	1.00	0.89	0.38	
			N547038	228.00	228.75	0.75	1.22	0.39	
			N547039	228.75	229.48	0.73	0.75	0.02	
229.48	231.14	**FD Felsic Dyke** Pink to grey and hard; this dyke has an upper contact at 115 dca and a lower contact at 75 dca. There is moderate carbonate and chlorite alteration from the upper contact to 230m. And some more moderate chloritic alteration for ~5cm before the lower contact.	N547040	229.48	230.28	0.80	0.35	0.09	
			N547041	230.28	231.14	0.86	0.06	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
231.14	231.58	**SYENOP Syenite with Graphitic Overprinting** Grey medium grained and hard, with minor carbonate fracture filling. This unit is slightly conductive and is probably part of the unit directly above the felsic dyke.	N547042	231.14	231.58	0.44	1.37	0.11	
231.58	233.34	**GRPBX Graphitic Breccia** Mostly grey pink fragments with some minor fracture filling. The matrix has a high graphite content. The fragments are sub angular to sub rounded and have more of a distinct matrix as opposed to the intense fracture filling in the above breccia.	N547043	231.58	232.48	0.90	7.03	0.19	
			N547045	232.48	233.34	0.86	10.7	0.16	
233.34	236.48	**SYENOP Syenite with Graphitic Overprinting** Grey with pink some areas are more pink than others, medium grained and hard. The pinker areas are probably due to a higher orthoclase content due to a difference in cooling temperatures. Minor carbonate along a few fractures, there is also minor chlorite alteration. The unit is weakly to moderately conductive.	N547046	233.34	234.40	1.06	0.97	0.23	
			N547047	234.40	235.45	1.05	0.12	0.04	
			N547048	235.45	236.48	1.03	0.2	0.07	
236.48	239.64	**GRDROP Granodiorite with Graphitic Overprinting** Medium to coarse grained, dark grey and white with some pink and very hard. From the upper contact to 237.85 there is no fracture filling and the core has no conductivity from 237.85m to the bottom of the unit there are visible fractures with graphite infilling and the rock becomes moderately conductive. Between 239.29 and 239.24m there is an orthoclase rich zone possibly a chill zone? There is also trace amounts of py along a few of the fractures.	N547049	236.48	237.50	1.02	0.22	0.31	
			N547051	237.50	238.50	1.00	0.83	0.34	
			N547050	237.50	238.50	1.00	0.84	0.35	
			N547052	238.50	239.50	1.00	1.32	0.3	
			N547053	239.50	240.36	0.86	2.55	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
239.64	245.75	**GRPBX Graphitic Breccia** Pinkish grey sub angular to sub rounded fragments in a graphitic matrix. Some of the fragments are up to 80cm in size with smaller <2cm fragments within the matrix between these larger fragments. There is a very strong graphitic overprint from the upper contact of this breccia down to 241.34m. There are two dykes between 240.90 and 241.34, 10cm @ 125 - 135 dca and 5cm @ 130 - 135 dca, these seem to have been mafic dykes that have been flooded with graphite, they are now brecciated and extremely overprinted with graphite, to the point where the second thinner dyke is almost all graphite. There is a third 8cm dyke similar to these at 245.04 with a dca of 115 - 125.	N547054	240.36	241.40	1.04	11.3	0.67	
			N547056	241.40	242.45	1.05	5.68	0.25	
			N547057	242.45	243.50	1.05	3.16	0.22	
			N547058	243.50	244.60	1.10	3.28	0.37	
			N547059	244.60	245.75	1.15	10.05	0.31	
245.75	250.69	**GRDROP Granodiorite with Graphitic Overprinting** Grey white and pink with stronger pink orthoclase rich areas. At 246.64 - 246.86 and 247.46 - 247.59 there are small brecciated patches from the upper contact through to the end of the second brecciated region the rock is moderately to strongly over printed with graphite. From 247.59 - 249.28 there is no conductivity in the rock. At 249.28 - 249.78 there is another section of breccia and from here to the lower contact there once again is moderate conductivity. Between 250 -250.32 there are two orthoclase rich zones with sharp contacts, possibly felsic dykes? At 110 dca and 35 - 40 dca respectively. The lower contact between this rock and the Mafic Dyke below is very irregular and shallow to the core axis ~160.	N547060	245.75	246.75	1.00	1.1	0.19	
			N547061	246.75	247.75	1.00	4.12	0.36	
			N547062	247.75	248.75	1.00	0.08	0.36	
			N547063	248.75	249.75	1.00	6.21	0.22	
			N547065	249.75	250.75	1.00	1.47	0.23	
250.69	251.68	**MDOP Mafic Dyke with Graphitic Overprinting** Grey to light green softer in comparison to most of the other rocks in this hole. Fine grained with visible biotite. There is moderate graphitic fracture filling within this dyke.	N547066	250.75	251.68	0.93	1.72	0.54	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
251.68	255.10	**GRPBX Graphitic Breccia** Grey pink fragments in a graphite matrix, some fragments. There are larger fragments ranging 20 - 80cm in size with a matrix of graphite and smaller <3cm fragments. All of the fragments have a moderate to strong graphite overprint and the matrix has some very strongly graphitic areas. At 253.4 - 253.46m there is the remnants of another dyke that has been flooded with graphite.	N547067	251.68	252.48	0.80	10.4	0.14	
			N547068	252.48	253.28	0.80	4.42	0.33	
			N547069	253.28	254.10	0.82	4.74	0.33	
			N547071	254.10	255.10	1.00	3.12	0.3	
			N547070	254.10	255.10	1.00	3.54	0.28	
255.10	256.20	**SYENOP Syenite with Graphitic Overprinting** Grey pink, hard with moderate graphitic fracture filling and over printing.	N547072	255.10	256.15	1.05	1.9	0.3	
			N547073	256.15	257.25	1.10	0.16	0.03	
256.20	257.35	**FD Felsic Dyke** Pink to light grey hard. No conductivity. Some small 2-3cm chlorite blebs.	N547074	257.25	258.00	0.75	3.66	0.11	
257.35	264.90	**GRPBX Graphitic Breccia** Light grey to white and light pink fragments within a graphite rich matrix. Many of the fragments are have graphite fracture filling throughout. At 236.05m there is a 1cm graphite seam that could be the remnants of a mafic dykelet? Fragments range in size from 1cm to ~40cm and in some areas they are overprinted so much that is it hard to distinguish between the fragments and the matrix. Between 264.11 - 264.65 there is a porphyry dyke and within the dyke at 264.17 there is a 2cm felsic dykelet.	N547076	258.00	258.53	0.53	0.95	0.03	
			N547077	258.53	259.25	0.72	3.16	0.07	
			N547078	259.25	260.00	0.75	8.47	0.19	
			N547079	260.00	261.00	1.00	6.94	0.27	
			N547080	261.00	262.00	1.00	9.05	0.21	
			N547081	262.00	263.00	1.00	4.93	0.25	
			N547082	263.00	264.00	1.00	9.34	0.28	
			N547083	264.00	265.00	1.00	1.5	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
264.90 -	269.04	**SYENOP Syenite with Graphitic Overprinting** Grey pink, strong graphite fracture filling through out creating almost brecciated sections. 268.09 - 268.51 a section of Graphite matrix breccia with sub-angular to sub-rounded fragments, there is minor fracture filling in the larger fragments.	N547085	265.00	266.00	1.00	0.77	0.25	
			N547086	266.00	267.00	1.00	1.5	0.32	
			N547087	267.00	268.00	1.00	1.45	0.35	
			N547088	268.00	269.04	1.04	8.11	0.33	
269.04 -	270.28	**GRPBX Graphitic Breccia** This section of breccia is actually two brecciated areas from 269.04 - 269.37 and 270.00 - 270.29 separated by a fragment of syenite with moderate graphitic fracture filling.	N547089	269.04	269.55	0.51	12.1	0.39	
			N547091	269.55	270.28	0.73	5.51	0.3	
			N547090	269.55	270.28	0.73	3.14	0.33	
270.28 -	272.39	**SYENOP Syenite with Graphitic Overprinting** Greyish pink to pink in areas. Fine to medium grained with minor graphitic fracture filling. The pink areas at 271.63 - 271.81 and 272.00 - 272.13 are possibly chill phases of the syenite that are more orthoclase rich.	N547092	270.28	271.32	1.04	1.08	0.33	
			N547093	271.32	272.39	1.07	0.4	0.15	
272.39 -	276.80	**GRPBX Graphitic Breccia** Mostly sub angular fragments with a strong graphite matrix in between. Fragments range in size from 0.5 - 15cm in size. The section between 275.12 - 275.89 is less like the rest of the breccia, the fragments are more insitu with a graphitic fracture filling, it seems that this area was actually two ~30cm fragments that fracture filling has actually broken up but not actually altered the position of the fragments.	N547094	272.39	273.00	0.61	8.31	0.19	
			N547096	273.00	274.00	1.00	6.43	0.36	
			N547097	274.00	275.00	1.00	11.3	0.36	
			N547098	275.00	276.00	1.00	5.74	0.45	
			N547099	276.00	276.80	0.80	3.5	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
276.80	279.88	**GRDR Granodiorite** Fine to medium grained pink to grey in areas. This unit shows a subtle banding of pink and grey sections and from 278.00 - 279.88 there is a stronger chloritic alteration especially along fractures.	N547100	276.80	277.80	1.00	0.08	0.73	
			N547101	277.80	278.80	1.00	0.01	0.1	
			N547102	278.80	279.88	1.08	0.06	0.11	
279.88	280.67	**GRPBX Graphitic Breccia** Sub-angular to sub-rounded fragments with a strong graphitic matrix there are some trace pyrite blebs in the matrix. This section seems to have a stronger graphite over print.	N547103	279.88	280.67	0.79	12.6	0.29	
280.67	292.13	**GRDROP Granodiorite with Graphitic Overprinting** Mainly dark grey to grey with white and some minor sections of pinkish grey. The entire section has a weak to moderate graphitic overprinting and there are small localized sections of breccia. 282.23 - 282.33 small brecciated section 282.33 - 282.46 strong graphite fracture filling on edge of localized breccia. 282.95 - 283.16 small brecciated section 283.16 - 283.46 area of moderate fracture filling. 183.59 - 184.50 this area has a more pink colour to it possibly due to an abundance of orthoclase, possible gneissic banding. 184.80 - 184.86 small band of graphitic breccia for 5m before and 18cm after this breccia there is moderate graphite fracture filling. 286.68 - 287.66 this area has a much stronger graphitic overprint and strong graphitic fracture filling, 287.15 and 287.23 small ~1cm biotite rich, possibly strongly altered mafic dykelets with graphite overprinting. 287.39 - 287.65 larger altered dyke containing patches of biotite and chlorite surrounded by graphite, these fragments have been completely altered to the point they have very irregular shapes. 290.82 - 291.43 Fine grained mafic dyke, greenish grey with mild chlorite alteration.	N547105	280.67	281.65	0.98	0.53	0.38	
			N547106	281.65	282.65	1.00	2.58	0.34	2.55
			N547107	282.65	283.65	1.00	3.45	0.18	2.52
			N547108	283.65	284.65	1.00	0.3	0.05	2.47
			N547109	284.65	285.65	1.00	0.53	0.3	2.52
			N547111	285.65	286.65	1.00	0.3	0.34	
			N547110	285.65	286.65	1.00	0.19	0.24	2.59
			N547112	286.65	287.65	1.00	6.17	0.19	
			N547113	287.65	288.20	0.55	0.69	0.36	
			N547114	288.20	289.20	1.00	0.43	0.38	
			N547116	289.20	290.20	1.00	0.72	0.37	
			N547117	290.20	291.20	1.00	1.95	0.17	
			N547118	291.20	292.13	0.93	0.52	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
292.13	296.64	**GRPBX Graphitic Breccia** Grey to pink fragments in a highly graphitic matrix. Most fragments are sub-angular with some smaller sub-rounded fragments. Fragments range in size from 0.5 - ~15cm with some of the larger fragments having graphitic fracture filling within them.	N547119	292.13	293.00	0.87	12.2	0.25	
			N547120	293.00	294.00	1.00	10.3	0.31	
			N547121	294.00	295.00	1.00	2.41	0.33	
			N547122	295.00	295.80	0.80	11.7	0.36	
			N547123	295.80	296.64	0.84	7.12	0.28	
296.64	304.44	**GRDROP Granodiorite with Graphitic Overprinting** Grey with pink and white, medium to coarse grains, hard. There is some minor carbonate alteration along fine fractures especially nearer to the contacts. 298.78 - 299.63 there is a stronger graphitic overprint and fracture filling; in this area there are two strongly chloritic altered fragments (?) within this section. 300.94 small 1cm brecciated section with graphite matrix. 302.16 - 302.58 strong graphite overprint and fracture filling becoming brecciated at 302.58 - 303.20, again there is a single light green chlorite altered fragment in this breccia zone.	N547125	296.64	297.50	0.86	1.43	0.3	
			N547126	297.50	298.50	1.00	1.19	0.37	
			N547127	298.50	299.50	1.00	10.1	0.3	
			N547128	299.50	300.50	1.00	2.08	0.39	
			N547129	300.50	301.50	1.00	0.65	0.37	
			N547131	301.50	302.50	1.00	1.52	0.39	
			N547130	301.50	302.50	1.00	1.07	0.39	
			N547132	302.50	303.50	1.00	6.61	0.26	
			N547133	303.50	304.44	0.94	0.24	0.3	
304.44	313.80	**MD Mafic Dyke** Fine to medium grained with irregular defined zones of coarse grained material. The rock is grey with a slight green tint due to chloritic alteration which becomes stronger along fractures. There is no graphitic overprinting in this dyke.	N547134	304.44	305.50	1.06	0.05	0.03	
			N547136	305.50	306.50	1.00	0.04	0.04	
			N547137	306.50	307.50	1.00	0.04	0.04	
			N547138	307.50	308.50	1.00	0.03	0.06	
			N547139	308.50	309.50	1.00	0.04	0.13	
			N547140	309.50	310.50	1.00	0.04	0.18	
			N547141	310.50	311.50	1.00	0.04	0.12	
			N547142	311.50	312.40	0.90	0.03	0.1	
			N547143	312.40	313.20	0.80	0.03	0.16	
			N547145	313.20	313.80	0.60	0.04	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
313.80	319.13	**GRDROP Granodiorite with Graphitic Overprinting** Grey, white with pink areas, medium grained; these pink areas are high in orthoclase either to differential chilling. There is very minor graphite fracture filling if any.	N547146	313.80	314.90	1.10	0.26	0.34	
			N547147	314.90	316.00	1.10	0.13	0.33	
			N547148	316.00	317.00	1.00	0.25	0.36	
			N547149	317.00	318.00	1.00	0.21	0.1	
			N547151	318.00	319.13	1.13	0.17	0.04	
			N547150	318.00	319.13	1.13	0.24	0.05	
319.13	328.35	**GRPBX Graphitic Breccia** Grey fragments with dark grey graphite rich matrix. There are larger fragments 10 - 30cm with some fracture filling separated by areas of matrix with smaller fragments <5cm, some of these matrix areas are very rich in graphite and the fragments are more overprinted with graphite; these areas include 320.80 - 321.25, 323.25 - 323.60, 326.00 - 326.50. At 321.26 - 321.40 and 323.57 - 323.68 there are chlorite and biotite rich areas that are probably remnants of mafic dykes, both have irregular contacts perpendicular to the core axis. There are also 3 - 5cm fragment that are rich in chlorite, biotite or both through out this unit. From 323 - 328.35 there is ~1% pyrite associated with the matrix in small blebs.	N547152	319.13	320.00	0.87	6.38	0.18	
			N547153	320.00	321.00	1.00	9.12	0.25	
			N547154	321.00	322.00	1.00	5.93	0.26	
			N547156	322.00	323.00	1.00	7.15	0.25	
			N547157	323.00	324.00	1.00	10.8	0.22	
			N547158	324.00	325.05	1.05	11.1	0.28	
			N547159	325.05	326.15	1.10	6.52	0.41	
			N547160	326.15	327.25	1.10	10.6	0.32	
			N547161	327.25	328.35	1.10	7.56	0.22	
328.35	331.56	**GRDROP Granodiorite with Graphitic Overprinting** Grey white, medium grained and hard. This unit is weakly to moderately overprinted with graphite.	N547162	328.35	329.00	0.65	0.6	0.26	
			N547163	329.00	330.00	1.00	0.46	0.33	
			N547165	330.00	331.00	1.00	0.33	0.38	
			N547166	331.00	331.56	0.56	0.53	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
331.56	334.60	**GRPBX Graphitic Breccia** Again this unit is composed more of larger fragments with more intense graphitic breccia zones between these fragments. The matrix again has smaller fragments in it. There is weak to moderate fracture filling within the larger fragments. There is much less altered mafic fragments and pyrite associated with this unit of breccia although there is still trace pyrite in blebs.	N547167	331.56	332.50	0.94	7.92	0.03	
			N547168	332.50	333.50	1.00	2.61	0.12	
			N547169	333.50	334.60	1.10	1.39	0.37	
334.60	338.10	**MD Mafic Dyke** Fine grained and dark grey. There are some small 1 - 2 cm bands of medium coarse grained gabbro, most likely the same composition as the fine grained dyke.	N547171	334.60	335.50	0.90	0.05	0.02	
			N547170	334.60	335.50	0.90	0.04	0.02	
			N547172	335.50	336.50	1.00	0.09	0.02	
			N547173	336.50	337.30	0.80	0.04	0.07	
			N547174	337.30	338.10	0.80	0.14	0.04	
338.10	347.00	**GRPBX Graphitic Breccia** Grey to light pink clasts in a graphite rich matrix. There are not as many larger fragments in this unit and there is moderate to strong fracture filling. The top of the unit between 338.10 - 338.73 could be a large syenitic clast or a syenite unit before the breccia. There is moderate to strong carbonate alteration along fractures between 341 and 346m. There is another large syenitic clast or small syenitic unit at 343.69 - 344.46, there is a small fracture zone between 344.46 - 344.70 and a fault zone that is strongly fractureed and has some fault gouge at 345.50 - 345.80, these two structures seem to be where the carbonate alteration is concentrated.	N547176	338.10	338.73	0.63	0.53	0.21	
			N547177	338.73	339.50	0.77	7.66	0.13	
			N547178	339.50	340.50	1.00	10.3	0.24	
			N547179	340.50	341.50	1.00	6.86	0.18	
			N547180	341.50	342.50	1.00	1.36	0.26	
			N547181	342.50	343.50	1.00	10.4	0.19	
			N547182	343.50	344.50	1.00	1	0.02	
			N547183	344.50	345.25	0.75	5.83	0.13	
			N547185	345.25	346.00	0.75	0.35	0.25	
			N547186	346.00	347.00	1.00	4.61	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
347.00	383.00	**SYENSL Syenite Sill (unmineralized)** Medium to coarse grained grey to grey green, massive sill unit. There are phases of more medium and more coarse grained rock. There is mild carbonate alteration along some fractures. 375.00 - 375.20 very broken up fracture zone with dark green chlorite along fracture planes of broken rock	N547187	347.00	348.00	1.00	0.21	0.08	
			N547188	348.00	349.00	1.00	0.05	0.02	
			N547189	349.00	350.00	1.00	0.04	0.06	
			N547190	350.00	351.00	1.00	0.05	0.14	
			N547191	350.00	351.00	1.00	0.05	0.14	
			N547192	351.00	352.00	1.00	0.06	0.12	
			N547193	352.00	353.00	1.00	0.04	0.04	
			N547194	353.00	354.00	1.00	0.04	0.05	
			N547196	354.00	355.00	1.00	0.03	0.02	2.65
			N547197	355.00	356.00	1.00	0.08	0.08	2.57
			N547198	356.00	357.00	1.00	0.09	0.03	2.57
			N547199	357.00	358.00	1.00	0.03	0.03	2.62
			N547200	358.00	359.00	1.00	0.08	0.07	2.65
			N547201	359.00	360.00	1.00	0.04	0.04	
			N547202	360.00	361.00	1.00	0.03	0.05	
			N547203	361.00	362.00	1.00	0.13	0.17	
			N547205	362.00	363.00	1.00	0.15	0.09	
			N547206	363.00	364.00	1.00	0.05	0.13	
			N547207	364.00	365.00	1.00	0.05	0.13	
			N547208	365.00	366.00	1.00	0.04	0.08	
			N547209	366.00	367.00	1.00	0.05	0.08	
			N547210	367.00	368.00	1.00	0.07	0.07	
			N547211	367.00	368.00	1.00	0.05	0.09	
			N547212	368.00	369.00	1.00	0.03	0.08	
			N547213	369.00	370.00	1.00	0.04	0.21	
			N547214	370.00	371.00	1.00	0.05	0.03	
			N547216	371.00	372.00	1.00	0.07	0.06	
			N547217	372.00	373.00	1.00	0.06	0.04	
			N547218	373.00	374.00	1.00	0.05	0.06	
			N547219	374.00	375.00	1.00	0.12	0.1	
			N547220	375.00	376.00	1.00	0.07	0.11	
			N547221	376.00	377.00	1.00	0.03	0.15	
			N547222	377.00	378.00	1.00	0.04	0.04	
			N547223	378.00	379.00	1.00	0.07	0.02	
			N547225	379.00	380.00	1.00	0.07	0.02	
			N547226	380.00	381.00	1.00	0.03	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N547227	381.00	382.00	1.00	0.06	0.06	
			N547228	382.00	383.00	1.00	0.25	0.08	
383.00	390.89	**GRPBX Graphitic Breccia** Larger ~1m fragments of Syenite separated by more typical 0.5 - 5cm fragments surrounded by a graphite rich matrix. There is some fracture filling in the fragments, mostly along the edges of the larger fragments and in the smaller fragments. Fragments are sub angular to sub rounded in shape. Between 396.45 - 390.00 there is pyrite associated with the graphite in blebs 1%.	N547229	383.00	384.00	1.00	4.4	0.23	
			N547231	384.00	385.00	1.00	10.1	0.16	
			N547230	384.00	385.00	1.00	11.2	0.19	
			N547232	385.00	386.00	1.00	6.31	0.24	
			N547233	386.00	387.00	1.00	8.25	0.27	
			N547234	387.00	388.00	1.00	6.33	0.35	
			N547236	388.00	389.00	1.00	4.47	0.16	
			N547237	389.00	390.00	1.00	10.5	0.2	
			N547238	390.00	390.89	0.89	4.98	0.2	
390.89	395.55	**SYENOP Syenite with Graphitic Overprinting** Grey pink, hard medium grained. The first 30cm of this unit is brecciated but does not have any graphite associated with the breccia. The entire unit is weakly to moderately conductive. From 392.00 - 392.50m there is a distinctly more pink area that could be a felsic dyke or a more orthoclase rich phase of the unit? From 392.80 - 394.55m there is more graphitic fracture filling than there is in the rest of the unit.	N547239	390.89	392.00	1.11	0.64	0.05	
			N547240	392.00	393.00	1.00	0.33	0.15	
			N547241	393.00	394.00	1.00	0.76	0.35	
			N547242	394.00	394.55	0.55	0.89	0.31	
			N547243	394.55	395.55	1.00	4.35	0.21	
395.55	395.84	**GRPBX Graphitic Breccia** Large +50cm fragments separated by 10 - 50cm zones of graphitic breccia with more insitu fragments between 0.5 - 4cm in size. The fragments are sub-angular. There is some trace pyrite associated with the matrix.	N547245	395.55	396.55	1.00	2.15	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
395.84 -	398.13	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. Chloritic fracture filling. Weak to moderately conductive.	N547246	396.55	397.55	1.00	0.2	0.34	
			N547247	397.55	398.55	1.00	2.56	0.2	
398.13 -	408.21	**GRPBX Graphitic Breccia** More typical fragment sizes with fragments ranging from 0.5 - 30cm and a strongly graphitic matrix. 399.50 - 399.70 possibly the remnants of a felsic dyke with fractured "crackled" feldspar crystals with a moderately graphitic matrix. This unit of breccia seems to have more pyrite associated with the matrix especially between 403.00 - 403.60m and between 406.00 - 407.00m.	N547248	398.55	399.55	1.00	2.09	0.15	
			N547249	399.55	400.55	1.00	2.34	0.21	
			N547251	400.55	401.55	1.00	4.26	0.17	
			N547250	400.55	401.55	1.00	2.63	0.24	
			N547252	401.55	402.55	1.00	3.24	0.21	
			N547253	402.55	403.55	1.00	4.91	0.3	
			N547254	403.55	404.55	1.00	0.98	0.19	
			N547256	404.55	405.55	1.00	4.71	0.24	
			N547257	405.55	406.55	1.00	5.1	0.33	
			N547258	406.55	407.55	1.00	4.73	0.24	
			N547259	407.55	408.21	0.66	0.71	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
408.21	419.70	**MD Mafic Dyke** Grey to grey green, fine to medium grained with some coarser grained almost gabbroic phases. From the upper contact to 412.81m there are some porphyry dykes cutting through the mafics although I am not certain that it might be the other way around? Porphyry dykes are at 409.40 - 409.88 and 41.90 - 412.81.	N547260	408.21	409.00	0.79	0.04	0.14	
			N547261	409.00	410.00	1.00	0.01	0.03	
			N547262	410.00	411.00	1.00	0.03	0.04	
			N547263	411.00	412.00	1.00	0.01	0.01	
			N547265	412.00	413.00	1.00	0.01	0.01	
			N547266	413.00	414.00	1.00	0.01	0.01	
			N547267	414.00	415.00	1.00	3.11	0.07	
			N547268	415.00	416.00	1.00	0.04	0.01	
			N547269	416.00	417.00	1.00	0.01	0.07	
			N547271	417.00	418.00	1.00	0.02	0.01	
			N547270	417.00	418.00	1.00	0.01	0.02	
			N547272	418.00	419.00	1.00	0.06	0.03	
			N547273	419.00	419.70	0.70	0.28	0.04	
419.70	423.17	**GRPBX Graphitic Breccia** This breccia consists of 0.5 - 5cm fragments with an abundance of fracture filling, the matrix is graphite rich, again there seems to be more pyrite blebs than in other zones of breccia within this hole. Some sections do have insitu fragments these areas seem to be more intense fracture filled areas.	N547274	419.70	420.30	0.60	6.14	0.2	
			N547276	420.30	421.00	0.70	2.81	0.25	
			N547277	421.00	422.00	1.00	3.6	0.27	
			N547278	422.00	423.00	1.00	4.61	0.23	
			N547279	423.00	424.00	1.00	1.59	0.31	
423.17	423.20	**SYENOP Syenite with Graphitic Overprinting** Grey and pink sections medium grained, usually grey with sections of orthoclase rich pink phases. There is mild carbonate and chlorite alteration especially along fractures. At 430.85m there is a strongly biotite and chlorite altered mafic intrusion, possibly a small section of dyke.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
423.20	465.28	**GRPBX Graphitic Breccia** 0.5 - 5cm fragments in a graphitic matrix, fragments in some sections are much larger up to 50cm with smaller fragments and 3 - 30cm of breccia with smaller fragments between them. From the upper contact to 436 there ~1% sulphides associated with the matrix and rarely with quartz in small blebs, this is most likely pyrite but some of the blebs look more like pyrite but this could be due to a slight tarnishing. Randomly throughout the unit there are chlorite and biotite rich fragments, 445.20 and 446.75 are good examples of these. There are also strongly chlorite and biotite sections that look to be highly altered mafic dykes these are located at 449.48 - 449.67, 457.93 - 458.10, 461.75 - 462.18. Some felsic dyke like sections can be seen at 441.40 - 441.94, 442.68 - 442.77, 443.41 - 443.63, 446.29 - 446.30, 446.47 - 446.50, 450.58 - 450.70, 453.28 - 453.48.							
			N547280	424.00	425.00	1.00	0.47	0.28	
			N547281	425.00	426.00	1.00	0.35	0.23	
			N547282	426.00	427.00	1.00	0.74	0.21	
			N547283	427.00	428.00	1.00	0.27	0.05	
			N547285	428.00	429.00	1.00	0.2	0.11	
			N547286	429.00	430.00	1.00	0.15	0.06	
			N547287	430.00	431.00	1.00	0.17	0.03	
			N547288	431.00	432.00	1.00	0.85	0.09	
			N547289	432.00	433.00	1.00	11.1	0.17	
			N547291	433.00	434.00	1.00	6.61	0.21	
			N547290	433.00	434.00	1.00	6.83	0.2	
			N547292	434.00	435.00	1.00	8.1	0.31	
			N547293	435.00	436.00	1.00	9.04	0.25	
			N547294	436.00	437.00	1.00	1.79	0.34	
			N547296	437.00	438.00	1.00	2.63	0.17	
			N547297	438.00	439.00	1.00	3.69	0.24	
			N547298	439.00	440.00	1.00	5.67	0.24	
			N547299	440.00	441.00	1.00	4.82	0.31	
			N547300	441.00	442.00	1.00	3.87	0.12	
			N547301	442.00	443.00	1.00	6.06	0.29	
			N547302	443.00	444.00	1.00	2.84	0.18	
			N547303	444.00	445.00	1.00	6.18	0.24	
			N547305	445.00	446.00	1.00	7.42	0.28	
			N547306	446.00	447.00	1.00	6.31	0.29	
			N547307	447.00	448.00	1.00	5.98	0.27	
			N547308	448.00	449.00	1.00	6.32	0.29	
			N547309	449.00	450.00	1.00	5.92	0.15	
			N547310	450.00	451.00	1.00	3.06	0.15	
			N547311	450.00	451.00	1.00	3.09	0.15	
			N547312	451.00	452.00	1.00	4.7	0.31	
			N547313	452.00	453.00	1.00	7.57	0.3	
			N547314	453.00	454.00	1.00	6.64	0.13	
			N547316	454.00	455.00	1.00	3.18	0.18	
			N547317	455.00	456.00	1.00	1.55	0.17	
			N547318	456.00	457.00	1.00	9.29	0.25	
			N547319	457.00	458.00	1.00	8.38	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			N547320	458.00	459.00	1.00	1.46	0.47	
			N547321	459.00	460.00	1.00	10.1	0.19	
			N547322	460.00	461.00	1.00	12.1	0.22	
			N547323	461.00	462.00	1.00	7.44	0.26	
			N547325	462.00	463.00	1.00	7.83	0.22	
			N547326	463.00	464.00	1.00	5.68	0.29	
			N547327	464.00	464.60	0.60	2.83	0.22	
			N547328	464.60	465.28	0.68	9.7	0.21	
465.28	466.55	**MD Mafic Dyke** Fine grained grey with a very slight chloritic alteration, this could also be a fine grained diorite with some alteration (?).	N547329	465.28	465.88	0.60	0.49	0.05	
			N547331	465.88	466.55	0.67	0.02	0.05	
			N547330	465.88	466.55	0.67	0.01	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
466.55	493.71	**GRPBX Graphitic Breccia** Typical fragmented rock with a graphitic matrix, some larger fragments up to 50cm with the matrix and smaller fragments between them. Between 470.00 - 472.00 and 466.50 - 478.20 there are larger sections of syenite that could be large fragments or separate units. There are some biotite and chlorite altered fragments as well as trace pyrite blebs in the matrix. The graphite in the matrix of this unit seems more intense than in most of the other breccia units, especially in areas that are made up of smaller <10cm fragments. The fragments in this unit are sub-angular to sub-rounded. From 484 - 491.3 seems to have a higher graphite content and stronger overprint.	N547332	466.55	467.31	0.76	4.95	0.28	
			N547333	467.31	468.00	0.69	3.78	0.24	
			N547334	468.00	468.70	0.70	1.7	0.37	
			N547336	468.70	469.40	0.70	5.41	0.35	
			N547337	469.40	470.21	0.81	2.53	0.18	
			N547338	470.21	471.20	0.99	0.47	0.13	
			N547339	471.20	472.10	0.90	0.39	0.09	
			N547340	472.10	473.00	0.90	2.95	0.36	
			N547341	473.00	474.00	1.00	7.65	0.44	
			N547342	474.00	475.00	1.00	2.6	0.38	
			N547343	475.00	475.75	0.75	7.24	0.41	
			N547345	475.75	476.51	0.76	8.75	0.36	
			N547346	476.51	477.38	0.87	0.43	0.35	
			N547347	477.38	478.18	0.80	0.23	0.24	
			N547348	478.18	479.00	0.82	8.41	0.47	
			N547349	479.00	480.00	1.00	10.4	0.35	
			N547350	480.00	481.00	1.00	8.98	0.41	
			N547351	480.00	481.00	1.00	9.04	0.41	
			N547352	481.00	482.00	1.00	7.68	0.34	
			N547353	482.00	483.00	1.00	5.98	0.34	
			N547354	483.00	484.00	1.00	8.85	0.33	
			N547356	484.00	485.00	1.00	11.9	0.3	
			N547357	485.00	486.00	1.00	8.34	0.38	
			N547358	486.00	487.00	1.00	7.56	0.35	
			N547359	487.00	488.00	1.00	6.69	0.37	
			N547360	488.00	489.00	1.00	6.46	0.53	
			N547361	489.00	490.00	1.00	5.27	0.18	
			N547362	490.00	491.00	1.00	9.22	0.31	
			N547363	491.00	492.00	1.00	7.85	0.33	
			N547365	492.00	493.00	1.00	7.94	0.33	
			N547366	493.00	493.71	0.71	6.99	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
493.71	495.80	**ID Intermediate Dyke** This is a fine grained, grey unit with a very weak chloritic alteration along fractures. From 494.28 - 494.60 there is a medium grained mafic dyke that cuts through the unit which has small fragments of intermediate to felsic material, possibly pieces of this intermediate unit. The lower contact of this unit is irregular and at ~20dca. There is more alteration near the lower contact than elsewhere in this unit.	N547367	493.71	494.70	0.99	0.09	0.03	
			N547368	494.70	495.80	1.10	0.01	0.04	
495.80	498.70	**MD Mafic Dyke** Medium grained possibly gabbro, grey with a slight green chloritic alteration. It is difficult to tell, and if the contacts were not so sharp I might consider this a coarser grained section of the intermediate dyke it cuts through and not mafic?	N547369	495.80	496.80	1.00	0.01	0.01	
			N547371	496.80	497.80	1.00	0.01	0.02	
			N547370	496.80	497.80	1.00	0.01	0.02	
			N547372	497.80	498.70	0.90	0.01	0.02	
498.70	502.10	**ID Intermediate Dyke** This intermediate section is similar to the above one. It is fine grained and grey with a very weak chlorite alteration. There is some rubble at 499.75 that seems to be a syenite and does not fit with the surrounding rocks; it is probably some rubble that has fallen down the hole?	N547373	498.70	499.75	1.05	0.03	0.03	
			N547374	499.75	500.75	1.00	0.01	0.01	
			N547376	500.75	501.40	0.65	0.02	0.04	
			N547377	501.40	502.10	0.70	0.3	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
502.10	512.22	**GRPBX Graphitic Breccia** Mostly fragments below 50cm with a matrix of smaller 1 - 5cm fragments and graphite between any larger fragments. From 508.75 - 512.22 there are more large fragments and less matrix, some of the large fragments specifically the one from 510 - 511 has significant graphite in fractures. There is some biotite alteration near the contact between a large fragment and the matrix at 509.75 in the fragment.	N547378	502.10	503.00	0.90	6.8	0.35	
			N547379	503.00	504.00	1.00	6.88	0.31	
			N547380	504.00	505.00	1.00	5.26	0.21	
			N547381	505.00	506.00	1.00	5.46	0.47	
			N547382	506.00	507.00	1.00	6.99	0.28	
			N547383	507.00	508.00	1.00	7.71	0.4	
			N547385	508.00	509.00	1.00	5.78	0.29	
			N547386	509.00	510.00	1.00	1.27	0.26	
			N547387	510.00	511.00	1.00	1.86	0.62	
			N547388	511.00	511.60	0.60	1.91	0.18	
			N547389	511.60	512.22	0.62	2.42	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
512.22	577.76	**SYENSL Syenite Sill (unmineralized)** Medium to coarse grained with some areas of fine grained. There is some minor to moderate chlorite along fractures throughout this unit. At 538.80 - 539.03 there is a more chloritized zone with biotite and tr pyrite which seems to be a mafic dyke crosscutting the unit at 65 dca upper contact and 70dca lower contact. At 564.68 - 564.96 a felsic dyke with a slight porphyritic texture cuts the unit at 105 dca. At 551.78 - 551.91, 557.13 - 557.45 there are Porphyritic Intermediate Dykes at close to 90 dca. These dykes are dark grey with phenocrysts up to 1cm in size. These phenocrysts are surrounded by an alteration halo or chill margin. There is a third dyke at 571.79 - 572.04 cutting across at 135 dca.	N547391	512.22	513.00	0.78	0.08	0.06	
			N547390	512.22	513.00	0.78	0.09	0.06	
			N547392	513.00	514.00	1.00	0.03	0.03	
			N547393	514.00	515.00	1.00	0.02	0.03	
			N547394	515.00	516.00	1.00	0.04	0.03	
			N547396	516.00	517.00	1.00	0.1	0.03	
			N547397	517.00	518.00	1.00	0.01	0.02	
			N547398	518.00	519.00	1.00	0.03	0.03	
			N547399	519.00	520.00	1.00	0.04	0.05	
			N547400	520.00	521.00	1.00	0.02	0.02	
			N547401	521.00	522.00	1.00	0.07	0.03	
			N547402	522.00	523.00	1.00	0.02	0.03	
			N547403	523.00	524.00	1.00	0.02	0.02	
			N547405	524.00	525.00	1.00	0.01	0.02	
			N547406	525.00	526.00	1.00	0.05	0.02	
			N547407	526.00	527.00	1.00	0.04	0.02	
			N547408	527.00	528.00	1.00	0.03	0.17	
			N547409	528.00	529.00	1.00	0.04	0.19	
			N547410	529.00	530.00	1.00	0.04	0.13	
			N547411	529.00	530.00	1.00	0.04	0.16	
			N547412	530.00	531.00	1.00	0.03	0.09	
			N547413	531.00	532.00	1.00	0.02	0.08	
			N547414	532.00	533.00	1.00	0.28	0.03	
			N547416	533.00	534.00	1.00	0.03	0.03	
			N547417	534.00	535.00	1.00	0.01	0.04	
			N547418	535.00	536.00	1.00	0.01	0.05	
			N547419	536.00	537.00	1.00	0.01	0.03	
			N547420	537.00	538.00	1.00	0.01	0.06	
			N547421	538.00	539.03	1.03	0.01	0.11	
			N547422	539.03	540.00	0.97	0.01	0.04	
			N547423	540.00	541.00	1.00	0.01	0.05	
			N547425	541.00	542.00	1.00	0.02	0.07	
			N547426	542.00	543.00	1.00	0.02	0.03	
			N547427	543.00	544.00	1.00	0.02	0.01	
			N547428	544.00	545.00	1.00	0.04	0.04	
			N547429	545.00	546.00	1.00	0.01	0.03	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		N547430	546.00	547.00	1.00	0.04	0.04	
		N547431	546.00	547.00	1.00	0.01	0.04	
		N547432	547.00	548.00	1.00	0.01	0.08	
		N547433	548.00	549.00	1.00	0.06	0.03	
		N547434	549.00	550.00	1.00	0.06	0.08	
		N547436	550.00	551.00	1.00	0.06	0.2	
		N547437	551.00	552.00	1.00	0.04	0.25	
		N547438	552.00	553.00	1.00	0.02	0.07	
		N547439	553.00	554.00	1.00	0.02	0.03	
		N547440	554.00	555.00	1.00	0.01	0.03	
		N547441	555.00	556.00	1.00	0.02	0.03	
		N547442	556.00	557.00	1.00	0.02	0.02	
		N547443	557.00	558.00	1.00	0.03	0.09	
		N547445	558.00	559.00	1.00	0.01	0.04	
		N547446	559.00	560.00	1.00	0.05	0.1	
		N547447	560.00	561.00	1.00	0.03	0.17	
		N547448	561.00	562.00	1.00	0.02	0.19	
		N547449	562.00	563.00	1.00	0.01	0.03	
		N547450	563.00	564.00	1.00	0.01	0.03	
		N547451	563.00	564.00	1.00	0.03	0.03	
		N547452	564.00	565.00	1.00	0.03	0.05	
		N547453	565.00	566.00	1.00	0.04	0.04	
		N547454	566.00	567.00	1.00	0.04	0.02	
		N547456	567.00	568.00	1.00	0.01	0.04	
		N547457	568.00	569.00	1.00	0.05	0.06	
		N547458	569.00	570.00	1.00	0.01	0.05	
		N547459	570.00	571.00	1.00	0.01	0.04	
		N547460	571.00	572.00	1.00	0.03	0.06	
		N547461	572.00	573.00	1.00	0.01	0.03	
		N547462	573.00	574.00	1.00	0.01	0.02	
		N547463	574.00	575.00	1.00	0.01	0.03	
		N547465	575.00	576.00	1.00	0.03	0.23	
		N547466	576.00	577.00	1.00	0.01	0.15	
		N547467	577.00	577.76	0.76	0.01	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
577.76	579.15	**GRPBX Graphitic Breccia** Fragments range in size from 0.5 -10cm; the larger ones show graphite fracture filling. The matrix is graphite. Most of the fragments are sub-angular and a few are insitu with only fractures filled with graphite separating them.	N547468	577.76	578.46	0.70	9.38	0.17	
			N547469	578.46	579.15	0.69	4.44	0.45	
579.15	581.66	**SYEN Syenite** Medium grained, grey with mild chlorite fracture filling and no graphitic overprinting.	N547471	579.15	580.00	0.85	0.22	0.35	
			N547470	579.15	580.00	0.85	0.2	0.32	
			N547472	580.00	581.00	1.00	0.14	0.35	
			N547473	581.00	582.00	1.00	0.09	0.23	
581.66	585.27	**MD Mafic Dyke** Fine to medium grained with some coarse grained areas. There is no graphite associated with this unit and only minor chlorite associated with fractures.	N547474	582.00	583.00	1.00	0.01	0.07	
			N547476	583.00	584.00	1.00	0.03	0.08	
			N547477	584.00	584.60	0.60	0.01	0.03	
			N547478	584.60	585.27	0.67	0.01	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
585.27	607.76	**SYEN Syenite** Mostly medium to coarse grained with areas of fine grains, grey to pink in areas with higher orthoclase content. There is no graphite overprint in this unit except between 587.36 - 587.56m where there is a very slight graphitic fracture filling. There is a dyke similar to the above sill unit at 598.08 - 598.29 with a 110 dca. There are also smaller dykes with more chlorite and biotite alteration at 597.14 - 597.36, 597.92 - 598.05, 604.44 - 604.54. At 606.3 there is a fault at 145 dca.	N547479	585.27	586.00	0.73	0.1	0.31	
			N547480	586.00	586.75	0.75	0.18	0.31	
			N547481	586.75	587.36	0.61	0.08	0.26	
			N547482	587.36	587.56	0.20	3.08	0.38	
			N547483	587.56	588.15	0.59	0.5	0.13	
			N547485	588.15	589.00	0.85	0.15	0.23	
			N547486	589.00	590.00	1.00	0.07	0.27	
			N547487	590.00	591.00	1.00	0.04	0.26	
			N547488	591.00	591.83	0.83	0.08	0.24	
			N547489	591.83	592.44	0.61	0.2	0.4	
			N547490	592.44	592.59	0.15	12.55	0.51	
			N547491	592.44	592.59	0.15	12.5	0.52	
			N547492	592.59	593.20	0.61	0.15	0.36	
			N547493	593.20	594.00	0.80	0.02	0.05	
			N547494	594.00	595.00	1.00	0.04	0.02	
			N547496	595.00	596.00	1.00	0.04	0.25	
			N547497	596.00	597.00	1.00	0.06	0.13	
			N547498	597.00	598.00	1.00	0.24	0.16	
			N547499	598.00	599.00	1.00	0.24	0.27	
			N547500	599.00	600.00	1.00	0.13	0.24	
			N547501	600.00	601.00	1.00	0.14	0.17	
			N547502	601.00	602.00	1.00	0.06	0.23	
			N547503	602.00	603.00	1.00	0.05	0.16	
			N547505	603.00	604.00	1.00	0.18	0.2	
			N547506	604.00	605.00	1.00	0.15	0.2	
			N547507	605.00	606.00	1.00	0.13	0.29	
			N547508	606.00	607.00	1.00	0.11	0.37	
			N547509	607.00	607.76	0.76	0.04	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
607.76	608.74	**MD Mafic Dyke** Fine to medium grained mafic dyke with chlorite alteration along fractures. This unit is probably more intermediate but is very similar to the sill above.	N547511	607.76	608.74	0.98	0.02	0.04	
			N547510	607.76	608.74	0.98	0.04	0.04	
608.74	624.69	**SYEN Syenite** Grey to pink in areas of higher orthoclase content. Medium to coarse grained, hard. There is minor chlorite alteration along fractures and no graphite overprinting. EOH 624.69m	N547512	608.74	609.35	0.61	0.1	0.14	
			N547513	609.35	610.00	0.65	0.06	0.06	
			N547514	610.00	611.00	1.00	0.1	0.14	
			N547516	611.00	612.00	1.00	0.12	0.41	
			N547517	612.00	613.00	1.00	0.1	0.19	2.68
			N547518	613.00	614.00	1.00	0.12	0.11	2.68
			N547519	614.00	615.00	1.00	0.12	0.15	2.66
			N547520	615.00	616.00	1.00	0.17	0.28	2.66
			N547521	616.00	617.00	1.00	0.08	0.16	2.62
			N547522	617.00	618.00	1.00	0.1	0.16	
			N547523	618.00	619.00	1.00	0.08	0.11	
			N547525	619.00	620.00	1.00	0.07	0.06	
			N547526	620.00	621.00	1.00	0.1	0.22	
			N547527	621.00	622.00	1.00	0.16	0.16	
			N547528	622.00	623.00	1.00	0.17	0.16	
			N547529	623.00	624.00	1.00	0.2	0.19	
			N547531	624.00	624.69	0.69	0.11	0.17	
			N547530	624.00	624.69	0.69	0.15	0.18	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*		*Grid/Property*		*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16		None		Metallurgy hole	513.41	30/08/2013
District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*		*Date Completed*
Porcupine	5545724.4	682938.5			Reflex APS		05/09/2013
Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*		*Date Logged*
Albany Graphite Project	124.70	43.60		-88.00	Chibougamau Diamond Drilling		06/09/2013
Area	*Claim No.*	*NTS Sheet*	*Supervised By*		*Logged By*		*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia		Clayton Kennedy		☑
Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*		*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst			☐	☑	☑

Core Size (1)	HQ	462.41	*Casing Pulled*	*Casing (1)*	51.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
A second hole to obtain material for metallurgical testing. The steep dip of the hole is to keep it in the confines of the east pipe.	Approx. 289m of graphitic breccia material was intersected and will be availible for metullurgical testing. One unmineralized syenite sill unit was intersected at 343.35m to 384.4m. A third hole has been planned in order to obtain enough material for metallugrical testing. The assays from 50.54m to 490.58m averaged 3.83% Cg over 440.04m; within this intersection a higher grade graphite zone from 50.54 to 261.33m averaged 5.79% Cg over 210.79m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
60.00			56.5	47.5	-85.4	-85.4	☑	Reflex EZ	56235	
63.00			59	50	-85.7	-85.7	☑	Reflex EZ	56363	
66.00			56.4	47.4	-85.5	-85.5	☑	Reflex EZ	56378	
69.00			56.1	47.1	-85.7	-85.7	☑	Reflex EZ	56381	
72.00			56.9	47.9	-85.6	-85.6	☑	Reflex EZ	56396	
75.00			57.2	48.2	-85.6	-85.6	☑	Reflex EZ	56386	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
78.00			57.9	48.9	-85.7	-85.7	☑	Reflex EZ	56387	
81.00			57.1	48.1	-85.6	-85.6	☑	Reflex EZ	56402	
84.00			56.4	47.4	-85.6	-85.6	☑	Reflex EZ	56421	
87.00			56.5	47.5	-85.8	-85.8	☑	Reflex EZ	56416	
90.00			56.3	47.3	-85.2	-85.2	☑	Reflex EZ	56406	
93.00			57.7	48.7	-85.9	-85.9	☑	Reflex EZ	56404	
96.00			56.5	47.5	-85.7	-85.7	☑	Reflex EZ	56423	
99.00			56.4	47.4	-85.6	-85.6	☑	Reflex EZ	56425	
102.00			53.6	44.6	-85.1	-85.1	☑	Reflex EZ	56420	
105.00			50.2	41.2	-83.8	-83.8	☑	Reflex EZ	56418	
108.00			56	47	-85.6	-85.6	☑	Reflex EZ	56416	
111.00			56.6	47.6	-85.7	-85.7	☑	Reflex EZ	56403	
114.00			55.8	46.8	-85.6	-85.6	☑	Reflex EZ	56398	
117.00			56.4	47.4	-85.7	-85.7	☑	Reflex EZ	56393	
120.00			55.3	46.3	-85.6	-85.6	☑	Reflex EZ	56408	
123.00			55.1	46.1	-85.6	-85.6	☑	Reflex EZ	56410	
126.00			56.6	47.6	-85.7	-85.7	☑	Reflex EZ	56405	
129.00			57.2	48.2	-85.8	-85.8	☑	Reflex EZ	56414	
132.00			55.4	46.4	-85.6	-85.6	☑	Reflex EZ	56417	
135.00			53.3	44.3	-85.4	-85.4	☑	Reflex EZ	56101	
138.00			55.3	46.3	-85.6	-85.6	☑	Reflex EZ	56418	
141.00			56.1	47.1	-85.8	-85.8	☑	Reflex EZ	56418	
144.00			55.3	46.3	-85.8	-85.8	☑	Reflex EZ	56397	
147.00			54.8	45.8	-85.6	-85.6	☑	Reflex EZ	56406	
150.00			54.8	45.8	-85.6	-85.6	☑	Reflex EZ	56421	
153.00			57.6	48.6	-85.9	-85.9	☑	Reflex EZ	56398	
156.00			56.4	47.4	-85.8	-85.8	☑	Reflex EZ	56411	
159.00			55	46	-85.9	-85.9	☑	Reflex EZ	56404	
162.00			54.6	45.6	-85.6	-85.6	☑	Reflex EZ	56406	
165.00			55	46	-85.6	-85.6	☑	Reflex EZ	56411	
168.00			57	48	-85.9	-85.9	☑	Reflex EZ	56395	
171.00			55.1	46.1	-85.6	-85.6	☑	Reflex EZ	56415	
174.00			55.1	46.1	-85.6	-85.6	☑	Reflex EZ	56410	
177.00			54.8	45.8	-85.7	-85.7	☑	Reflex EZ	56401	
180.00			56.7	47.7	-85.9	-85.9	☑	Reflex EZ	56394	
183.00			54.3	45.3	-85.5	-85.5	☑	Reflex EZ	56407	
186.00			56	47	-85.9	-85.9	☑	Reflex EZ	56387	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
189.00			57	48	-85.9	-85.9	☑	Reflex EZ	56365	
192.00			56.5	47.5	-85.8	-85.8	☑	Reflex EZ	56376	
195.00			56.3	47.3	-85.9	-85.9	☑	Reflex EZ	56384	
198.00			55.4	46.4	-85.7	-85.7	☑	Reflex EZ	56376	
201.00			55	46	-85.7	-85.7	☑	Reflex EZ	56396	
204.00			56.6	47.6	-85.8	-85.8	☑	Reflex EZ	56356	
207.00			54.9	45.9	-85.7	-85.7	☑	Reflex EZ	56409	
210.00			54.6	45.6	-85.5	-85.5	☑	Reflex EZ	56417	
216.00			54.2	45.2	-85.7	-85.7	☑	Reflex EZ	56378	
222.00			53.9	44.9	-85.6	-85.6	☑	Reflex EZ	56419	
225.00			54.7	45.7	-85.6	-85.6	☑	Reflex EZ	56421	
228.00			55.2	46.2	-85.7	-85.7	☑	Reflex EZ	56407	
231.00			54.7	45.7	-85.7	-85.7	☑	Reflex EZ	56422	
234.00			54.8	45.8	-85.7	-85.7	☑	Reflex EZ	56422	
237.00			55.9	46.9	-85.9	-85.9	☑	Reflex EZ	56391	
240.00			56.6	47.6	-85.9	-85.9	☑	Reflex EZ	56382	
243.00			58.8	49.8	-86.1	-86.1	☑	Reflex EZ	56408	
246.00			55.2	46.2	-85.7	-85.7	☑	Reflex EZ	56410	
249.00			54.9	45.9	-85.7	-85.7	☑	Reflex EZ	56401	
252.00			56.6	47.6	-85.8	-85.8	☑	Reflex EZ	56422	
255.00			57.1	48.1	-85.9	-85.9	☑	Reflex EZ	56433	
258.00			55.7	46.7	-85.8	-85.8	☑	Reflex EZ	56425	
261.00			56.2	47.2	-85.9	-85.9	☑	Reflex EZ	56393	
264.00			57.4	48.4	-85.8	-85.8	☑	Reflex EZ	56357	
267.00			57.4	48.4	-85.9	-85.9	☑	Reflex EZ	56411	
270.00			56.1	47.1	-85.7	-85.7	☑	Reflex EZ	56477	
273.00			57	48	-85.8	-85.8	☑	Reflex EZ	56433	
276.00			55.8	46.8	-85.8	-85.8	☑	Reflex EZ	56444	
279.00			56.8	47.8	-85.8	-85.8	☑	Reflex EZ	56323	
282.00			55	46	-85.7	-85.7	☑	Reflex EZ	56402	
288.00			56.8	47.8	-85.8	-85.8	☑	Reflex EZ	56439	
291.00			55.2	46.2	-85.7	-85.7	☑	Reflex EZ	56434	
294.00			56.1	47.1	-85.7	-85.7	☑	Reflex EZ	56438	
297.00			56.3	47.3	-85.7	-85.7	☑	Reflex EZ	56391	
300.00			55.3	46.3	-85.7	-85.7	☑	Reflex EZ	56380	
303.00			56.8	47.8	-85.9	-85.9	☑	Reflex EZ	56561	
306.00			55.5	46.5	-85.7	-85.7	☑	Reflex EZ	56374	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
309.00			54.9	45.9	-85.7	-85.7	☑	Reflex EZ	56352	
312.00			57.3	48.3	-86	-86	☑	Reflex EZ	56346	
315.00			54.7	45.7	-85.7	-85.7	☑	Reflex EZ	56396	
318.00			55.1	46.1	-85.7	-85.7	☑	Reflex EZ	56396	
321.00			54.8	45.8	-85.8	-85.8	☑	Reflex EZ	56469	
324.00			55.8	46.8	-85.7	-85.7	☑	Reflex EZ	56363	
327.00			56.6	47.6	-85.6	-85.6	☑	Reflex EZ	56424	
330.00			57.5	48.5	-85.8	-85.8	☑	Reflex EZ	56447	
333.00			55.7	46.7	-85.7	-85.7	☑	Reflex EZ	56602	
336.00			55	46	-85.7	-85.7	☑	Reflex EZ	56596	
339.00			57.1	48.1	-85.8	-85.8	☑	Reflex EZ	56326	
345.00			55.5	46.5	-85.7	-85.7	☑	Reflex EZ	56462	
348.00			55.2	46.2	-85.7	-85.7	☑	Reflex EZ	56165	
351.00			54.6	45.6	-85.6	-85.6	☑	Reflex EZ	56248	
354.00			55.9	46.9	-85.9	-85.9	☑	Reflex EZ	56299	
357.00			55.4	46.4	-85.7	-85.7	☑	Reflex EZ	56267	
360.00			56.5	47.5	-85.7	-85.7	☑	Reflex EZ	56263	
363.00			55.5	46.5	-85.8	-85.8	☑	Reflex EZ	56282	
366.00			56.9	47.9	-85.8	-85.8	☑	Reflex EZ	56224	
369.00			56.2	47.2	-85.9	-85.9	☑	Reflex EZ	56261	
372.00			54.8	45.8	-85.6	-85.6	☑	Reflex EZ	56339	
375.00			55.6	46.6	-85.6	-85.6	☑	Reflex EZ	56307	
378.00			54.4	45.4	-85.6	-85.6	☑	Reflex EZ	56247	
381.00			54.7	45.7	-85.6	-85.6	☑	Reflex EZ	56229	
384.00			57	48	-85.9	-85.9	☑	Reflex EZ	56262	
387.00			55.7	46.7	-85.7	-85.7	☑	Reflex EZ	56519	
390.00			57.9	48.9	-85.8	-85.8	☑	Reflex EZ	56431	
393.00			56.8	47.8	-85.6	-85.6	☑	Reflex EZ	56453	
396.00			55.3	46.3	-85.6	-85.6	☑	Reflex EZ	56503	
399.00			55.2	46.2	-85.7	-85.7	☑	Reflex EZ	56533	
408.00			56	47	-85.7	-85.7	☑	Reflex EZ	56457	
411.00			56.1	47.1	-85.6	-85.6	☑	Reflex EZ	56418	
414.00			54.6	45.6	-85.6	-85.6	☑	Reflex EZ	56446	
417.00			57	48	-85.7	-85.7	☑	Reflex EZ	56469	
420.00			56.2	47.2	-85.5	-85.5	☑	Reflex EZ	56546	
423.00			56.6	47.6	-85.5	-85.5	☑	Reflex EZ	56518	
426.00			56.4	47.4	-85.5	-85.5	☑	Reflex EZ	56545	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
429.00			56.2	47.2	-85.4	-85.4	☑	Reflex EZ	56451	
432.00			56.9	47.9	-85.6	-85.6	☑	Reflex EZ	56387	
435.00			55.9	46.9	-85.4	-85.4	☑	Reflex EZ	56472	
438.00			57	48	-85.6	-85.6	☑	Reflex EZ	56441	
441.00			55.5	46.5	-85.6	-85.6	☑	Reflex EZ	56527	
447.00			55.5	46.5	-85.4	-85.4	☑	Reflex EZ	56543	
450.00			57.9	48.9	-85.6	-85.6	☑	Reflex EZ	56398	
453.00			55.2	46.2	-85.2	-85.2	☑	Reflex EZ	56441	
456.00			56.4	47.4	-85.5	-85.5	☑	Reflex EZ	56555	
459.00			57.1	48.1	-85.4	-85.4	☑	Reflex EZ	56397	
462.00			56.4	47.4	-85.3	-85.3	☑	Reflex EZ	56436	
465.00			58.1	49.1	-85.6	-85.6	☑	Reflex EZ	56414	
468.00			57.6	48.6	-85.6	-85.6	☑	Reflex EZ	56438	
471.00			57	48	-85.5	-85.5	☑	Reflex EZ	56416	
474.00			55.7	46.7	-85.5	-85.5	☑	Reflex EZ	56470	
477.00			55.7	46.7	-85.4	-85.4	☑	Reflex EZ	56490	
480.00			56.6	47.6	-85.4	-85.4	☑	Reflex EZ	56448	
483.00			57	48	-85.5	-85.5	☑	Reflex EZ	56459	
486.00			57.3	48.3	-85.6	-85.6	☑	Reflex EZ	56576	
489.00			55.8	46.8	-85.5	-85.5	☑	Reflex EZ	56367	
492.00			56	47	-85.3	-85.3	☑	Reflex EZ	56365	
495.00			56.2	47.2	-85.3	-85.3	☑	Reflex EZ	56287	
498.00			57.1	48.1	-85.5	-85.5	☑	Reflex EZ	56472	
501.00			56.2	47.2	-85.5	-85.5	☑	Reflex EZ	56527	
504.00			56.2	47.2	-85.4	-85.4	☑	Reflex EZ	56417	
507.00			56	47	-85.5	-85.5	☑	Reflex EZ	56446	
510.00			57.5	48.5	-85.4	-85.4	☑	Reflex EZ	56586	
513.00			56.4	47.4	-85.2	-85.2	☑	Reflex EZ	56376	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	45.00	**OB Overburden** Unknown overburden							
45.00	50.54	**SED Sediment** Pale brown to grey, very fine grained layered limestone. Lower contact at ~90dca.							
50.54	57.58	**GRPBX Graphitic Breccia** Black, dark grey and orange, soft. This unit of breccia is very weathered with pale green to white soft chlorite filling many of the fractures. Fragments with a graphite matrix can bee seen where the core is not totally weathered. Lower contact at 75dca.	Q185157	50.54	51.00	0.46	2.41	0.33	
			Q185158	51.00	52.00	1.00	6.48	0.7	
			Q185159	52.00	53.00	1.00	2.28	0.11	
			Q185160	53.00	54.00	1.00	4.15	0.08	
			Q185161	54.00	55.00	1.00	5.41	0.18	
			Q185162	55.00	56.00	1.00	6.42	0.03	
			Q185163	56.00	57.00	1.00	6.5	0.02	
			Q185165	57.00	57.58	0.58	5.32	0.02	
57.58	59.24	**SYENOP Syenite with Graphitic Overprinting** Pale orange to grey, medium grained soft. This unit is still very weathered with chlorite in fractures. There is also mild to moderate graphite fracture filling. 58.24-58.28 small localized occurrence of breccia with graphite. Lower contact at 82dca.	Q185166	57.58	58.30	0.72	4.58	0.03	
			Q185167	58.30	59.24	0.94	0.82	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
59.24	83.25	**GRPBX Graphitic Breccia** Pale orange, pale green becoming more grey. The rock is becoming less weathered but there is still strong weathering along fractures. Fragments are sub-angular to sub-rounded and exhibit some movement and are not insitu, there is fracture filling in some larger fragments. 73.00-74.15m there seems to be a fabric in this section at 140dca, I am unsure if this is a large fragment with a mottled appearance due to weathering or a part of the breccia that has a fabric? Lower contact at 42dca.	Q185168	59.24	60.00	0.76	11.5	0.01	
			Q185169	60.00	61.00	1.00	6.07	0.01	
			Q185170	61.00	62.00	1.00	8.55	0.02	
			Q185171	61.00	62.00	1.00	8.57	0.01	
			Q185172	62.00	63.00	1.00	7.35	0.01	
			Q185173	63.00	64.00	1.00	5.89	0.02	
			Q185174	64.00	65.00	1.00	7.64	0.02	
			Q185176	65.00	66.00	1.00	5.89	0.02	
			Q185177	66.00	67.00	1.00	8.45	0.01	
			Q185178	67.00	68.00	1.00	4.19	0.02	
			Q185179	68.00	69.00	1.00	8.38	0.01	
			Q185180	69.00	70.00	1.00	3.9	0.02	
			Q185181	70.00	71.00	1.00	6.51	0.02	
			Q185182	71.00	72.00	1.00	9.88	0.04	
			Q185183	72.00	73.00	1.00	2.44	0.04	
			Q185185	73.00	74.00	1.00	1.39	0.05	
			Q185186	74.00	75.00	1.00	7.13	0.03	
			Q185187	75.00	76.00	1.00	9.03	0.04	
			Q185188	76.00	77.00	1.00	6.2	0.03	
			Q185189	77.00	78.00	1.00	8.18	0.05	
			Q185190	78.00	79.00	1.00	5.75	0.05	
			Q185191	78.00	79.00	1.00	5.71	0.04	
			Q185192	79.00	80.00	1.00	7.07	0.05	
			Q185193	80.00	81.00	1.00	6.85	0.05	
			Q185194	81.00	81.75	0.75	7.37	0.04	
			Q185196	81.75	82.50	0.75	9.02	0.05	
			Q185197	82.50	83.25	0.75	10.5	0.04	
83.25	84.98	**SYENOP Syenite with Graphitic Overprinting** Grey to pale orange, medium to coarse grained, hard. Mild fracture filling graphite and pale green chlorite along fractures. Lower contact at 90dca.	Q185198	83.25	84.00	0.75	7.59	0.07	
			Q185199	84.00	84.98	0.98	3.23	0.05	

Lithology									
From	To	Sample #	From	To	Len.	CG %	S %	Core Density	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
84.98	116.96	**GRPBX Graphitic Breccia** Dark to pale grey fragments in a dark grey matrix. Fragments range from 0.5cm - 40cm in size. The matrix consists of mostly graphite with smaller fragments of the brecciated rock. In sections of the breccia this matrix becomes more of an intense fracture filling around insitu fragments. There are trace sulphides mostly pyrite associated with this breccia. 85.54 @ 66dca, 85.80 @ 74dca, 86.70 @ 58dca small faults filled with gouge. 86.27-86.34 pale orange altered felsic dyke UC @ 78dca/LC @ 74dca. 94.95-95.26 grey to pale green mafic dyke with mild chlorite and biotite. Graphite fracture filling. UC @ 82dca/LC @ 85dca. 96.09-96.58 pink felsic dyke very hard. UC @ 118dca/LC at 140dca. 96.87-97.90 Syenite section with graphite fracture filling. 100.95 large feldspar phenocryst with quartz and pyrite ~2cm in size within a larger fragment. 108.40 Pegmatitic feldspar quartz and pyrite vein at 100dca. 110.32-110.43 orange felsic dyke at 65dca. 111.40-111.85 fault zone, fracturing and gouge at possibly 90dca. 113.54-114.70 large fragment possibly granite? Lower contact at 80dca.							
			Q185200	84.98	86.00	1.02	6.94	0.06	
			Q185201	86.00	87.00	1.00	7.21	0.09	
			Q185202	87.00	88.00	1.00	8.98	0.11	
			Q185203	88.00	89.00	1.00	7.94	0.1	
			Q185205	89.00	90.00	1.00	6.98	0.11	
			Q185206	90.00	91.00	1.00	5.55	0.13	
			Q185207	91.00	92.00	1.00	6.03	0.13	
			Q185208	92.00	93.00	1.00	9.09	0.12	
			Q185209	93.00	94.00	1.00	6.23	0.12	
			Q185211	94.00	95.00	1.00	6.49	0.1	
			Q185210	94.00	95.00	1.00	6.42	0.1	
			Q185212	95.00	96.00	1.00	7.49	0.12	
			Q185213	96.00	97.00	1.00	3.37	0.08	
			Q185214	97.00	97.90	0.90	3.12	0.23	
			Q185216	97.90	99.00	1.10	10.3	0.19	
			Q185217	99.00	100.00	1.00	8.31	0.33	
			Q185218	100.00	101.00	1.00	6.99	0.18	
			Q185219	101.00	102.00	1.00	8.8	0.22	
			Q185220	102.00	103.00	1.00	7.91	0.17	
			Q185221	103.00	104.00	1.00	3.44	0.12	
			Q185222	104.00	105.00	1.00	4.34	0.13	
			Q185223	105.00	106.00	1.00	6.54	0.13	
			Q185225	106.00	107.00	1.00	9.63	0.21	
			Q185226	107.00	108.00	1.00	7.22	0.34	
			Q185227	108.00	109.00	1.00	6.2	0.26	
			Q185228	109.00	110.00	1.00	10.3	0.19	
			Q185229	110.00	111.00	1.00	6.05	0.18	
			Q185231	111.00	112.00	1.00	14	0.21	
			Q185230	111.00	112.00	1.00	13.9	0.22	
			Q185232	112.00	113.00	1.00	7.84	0.24	
			Q185233	113.00	113.59	0.59	5.36	0.2	
			Q185234	113.59	114.70	1.11	0.53	0.22	
			Q185236	114.70	115.30	0.60	9.19	0.17	
			Q185237	115.30	116.00	0.70	11.1	0.19	
			Q185238	116.00	116.96	0.96	10.95	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
116.96 -	119.10	**SYENOP Syenite with Graphitic Overprinting** Grey with pink, medium grained and hard. Moderate carbonate along some fractures, weak graphite overprinting. Lower contact at 82dca.	Q185239	116.96	118.00	1.04	0.32	0.21	
			Q185240	118.00	119.10	1.10	0.3	0.15	
119.10 -	132.12	**GRPBX Graphitic Breccia** Grey, pale pink and pale green fragments. Fragments generally range from 0.5cm to 40cm. Some of the larger fragments exhibit fracture filling. The matrix is mostly graphite. 124.06-125.15 large felsic fragment. 131.28-131.75 grey to pale green, fine grained mafic dyke UC @ 42dca/LC @ 33dca. Lower contact at 44dca.	Q185241	119.10	120.00	0.90	13.6	0.38	
			Q185242	120.00	121.00	1.00	8.37	0.18	
			Q185243	121.00	122.00	1.00	11.05	0.23	
			Q185245	122.00	123.00	1.00	7.46	0.39	
			Q185246	123.00	124.06	1.06	15.45	0.27	
			Q185247	124.06	125.15	1.09	1.88	0.26	
			Q185248	125.15	126.00	0.85	6.84	0.23	
			Q185249	126.00	127.00	1.00	9.52	0.31	
			Q185251	127.00	128.00	1.00	10.35	0.37	
			Q185250	127.00	128.00	1.00	10.6	0.36	
			Q185252	128.00	129.00	1.00	9.34	0.27	
			Q185253	129.00	130.00	1.00	14.75	0.26	
			Q185254	130.00	131.00	1.00	12.75	0.27	
			Q185256	131.00	132.12	1.12	2.78	0.14	
132.12 -	134.10	**MDOP Mafic Dyke with Graphitic Overprinting** Grey to pale green fine grained mafic dyke with very weak graphite overprinting. This could be an intermediate dyke with a small amount of chlorite alteration but it is similar to other dykes that have been categorized as mafic. Lower contact at 47dca.	Q185257	132.12	133.00	0.88	0.01	0.02	
			Q185258	133.00	134.10	1.10	0.05	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
134.10	139.90	**GRPBX Graphitic Breccia** Light grey to pale pink fragments, larger fragments are more dominant in this section of breccia with the majority of the unit being +15cm fragments; there is also more fracture filling and insitu fragments. The matrix between the larger fragments has a high graphite content. Lower contact at 56dca.	Q185259	134.10	135.00	0.90	11.55	0.28	
			Q185260	135.00	136.00	1.00	9.23	0.26	
			Q185261	136.00	137.00	1.00	4.72	0.35	
			Q185262	137.00	138.00	1.00	5.7	0.28	
			Q185263	138.00	139.00	1.00	8.95	0.28	
			Q185265	139.00	139.90	0.90	10.3	0.3	
139.90	143.61	**GRDR Granodiorite** Grey and medium grained. There is a gradational biotite alteration getting stronger near the lower contact of this unit. There is no graphite overprinting in this unit. 140.55-140.85 grey to pale green fine grained mafic dyke with mild chlorite and biotite. UC @ 80dca/LC @ 90dca. 143.61 there is a small chlorite rich vein at 50dca.	Q185266	139.90	141.00	1.10	0.51	0.23	
			Q185267	141.00	142.00	1.00	0.35	0.2	
			Q185268	142.00	143.00	1.00	0.41	0.18	
			Q185269	143.00	143.61	0.61	0.33	0.21	
143.61	149.07	**GRPBX Graphitic Breccia** Grey to pale pink fragments, this a more typical breccia with smaller fragments ~30cm in size. The fragments are more rounded in areas and there is graphite fracture filling throughout. The matrix is the typical graphite rich material. 144.82 2cm wide vein, possibly replaced mafic material, it is now pyrite and graphite. Lower contact at 112dca.	Q185271	143.61	144.30	0.69	5.47	0.51	
			Q185270	143.61	144.30	0.69	5.44	0.49	
			Q185272	144.30	145.00	0.70	14.8	1.3	
			Q185273	145.00	146.00	1.00	13.5	0.37	
			Q185274	146.00	147.00	1.00	8.9	0.36	
			Q185276	147.00	148.00	1.00	7.51	0.28	
			Q185277	148.00	149.07	1.07	7.59	0.35	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
149.07	151.03	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink with chlorite fracture filling, there is a mild graphite overprinting in this unit. This could be a large fragment as the lower contact is very irregular and the graphite breccia below it is very similar to the unit above it. Lower contact at 148dca.	Q185278	149.07	150.00	0.93	2.03	0.35	
			Q185279	150.00	151.03	1.03	1.03	0.34	
151.03	166.76	**GRPBX Graphitic Breccia** Grey to pale pink fragments up to 30cm in size but mostly ~10cm. The larger fragments have graphite fracture filling. The matrix is highly graphitic. 155.05 chlorite rich altered mafic dyke with graphite and veinlets of pyrite flooding it. 165.94-166.30 pale green mafic dyke with strong graphite fracture filling, looks brecciated with fragments insitu. UC @ 51dca/LC @ ~80dca. Lower contact at 102dca.	Q185280	151.03	152.00	0.97	6.2	0.27	
			Q185281	152.00	153.00	1.00	8.52	0.34	
			Q185282	153.00	154.00	1.00	13.8	0.3	
			Q185283	154.00	155.00	1.00	8.09	0.31	
			Q185285	155.00	156.00	1.00	8.57	1.07	2.58
			Q185286	156.00	157.00	1.00	4.96	0.55	2.58
			Q185287	157.00	158.00	1.00	5.76	0.37	2.6
			Q185288	158.00	159.00	1.00	2.5	0.35	2.64
			Q185289	159.00	160.00	1.00	9.07	0.56	2.63
			Q185291	160.00	161.00	1.00	6.32	0.33	
			Q185290	160.00	161.00	1.00	6.35	0.31	
			Q185292	161.00	162.00	1.00	7.33	0.72	
			Q185293	162.00	163.00	1.00	6.4	0.35	
			Q185294	163.00	164.00	1.00	11.2	0.33	
			Q185296	164.00	165.00	1.00	0.79	0.4	
			Q185297	165.00	166.00	1.00	9.2	0.45	
			Q185298	166.00	166.76	0.76	4.31	0.25	
166.76	168.70	**SYENOP Syenite with Graphitic Overprinting** Grey with pale pink, medium grained, hard. Mild to moderate graphite fracture filling. 167.90-167.96 strong graphite fracture filling/overprinting. Lower contact @83dca.	Q185299	166.76	167.70	0.94	1.62	0.3	
			Q185300	167.70	168.70	1.00	1.52	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
168.70	175.84	**GRPBX Graphitic Breccia** This is typical graphite breccia from the upper contact to 170.16, at this point there is a wide fault zone and fracturing. After this faulting the breccia is made up mostly of large 20-30cm fragments with moderate fracture filling. Between the fragments is the graphite matrix and smaller fragments which are very broken up and fractured but more insitu, this could be a more intense fracture filling of a much larger fragment? 170.16-170.60 fault zone comprised of small fractured syenite and breccia. 170.60-171.50 this is a syenite section with minor graphite and more fracturing between it and the breccia. This could be a large fragment that did not get broken up within the fractured fault zone. Lower contact at 98dca.	Q185301	168.70	169.30	0.60	13.5	0.91	
			Q185302	169.30	170.16	0.86	9.71	0.2	
			Q185303	170.16	171.00	0.84	7.44	0.27	
			Q185305	171.00	171.70	0.70	2.12	0.32	
			Q185306	171.70	172.70	1.00	6.96	0.25	
			Q185307	172.70	173.70	1.00	5.69	0.23	
			Q185308	173.70	174.70	1.00	4.85	0.24	
			Q185309	174.70	175.84	1.14	6.86	0.26	
175.84	179.90	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, medium grained with localized coarse grains, hard. Mild to moderate graphite fracture filling. Mild localized carbonate along fractures. 177.16-177.32 larger feldspar crystals and carbonate in fractures. 177.83-178.10 small brecciated zone with 0.5-8cm fragments surrounded by a graphite matrix. Lower contact at 94dca.	Q185311	175.84	177.00	1.16	2.14	0.35	
			Q185310	175.84	177.00	1.16	2.08	0.37	
			Q185312	177.00	177.83	0.83	0.92	0.33	
			Q185313	177.83	178.10	0.27	6.98	0.29	
			Q185314	178.10	179.00	0.90	1.21	0.38	
			Q185316	179.00	179.90	0.90	0.72	0.22	
179.90	182.67	**GRPBX Graphitic Breccia** Grey to pale pink fragments 0.5-20cm in size, some fragments in this unit are more angular than in others. There is also fracture filling in some of the larger fragments. The matrix seems even more graphitic than in other units. Lower contact at 82dca.	Q185317	179.90	181.00	1.10	12.4	0.34	
			Q185318	181.00	181.85	0.85	14	0.19	
			Q185319	181.85	182.67	0.82	9.14	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.67	193.72	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. Mild to moderate graphite fracture filling. Some chlorite among some fractures. 187.93-188.42 pink with black spots fine grained felsic dyke, in other cases I have described these as possible phase changes in the syenite to a more orthoclase rich rock but in this case one of the related dykes in this area actually cross cuts a graphite filled fracture suggesting a later event. UC @ 118dca/LC @ 104dca. 189.10-189.36 a pink felsic dyke as above UC @ 98dca/LC @ 103dca. 191.40 2cm felsic dyke, this is the dyke that crosscut the graphite fracture. 192.6-192.7 pink felsic dyke as above UC @ 57dca/LC @ 47dca. Lower contact at 85dca.	Q185320	182.67	183.51	0.84	1.54	0.37	
			Q185321	183.51	183.75	0.24	8.75	0.22	
			Q185322	183.75	184.75	1.00	0.95	0.4	
			Q185323	184.75	185.75	1.00	0.76	0.34	
			Q185325	185.75	186.75	1.00	2.45	0.3	2.62
			Q185326	186.75	187.75	1.00	2.17	0.39	2.62
			Q185327	187.75	188.75	1.00	0.73	0.34	2.63
			Q185328	188.75	189.75	1.00	0.95	0.26	2.62
			Q185329	189.75	190.75	1.00	0.94	0.34	2.61
			Q185331	190.75	191.75	1.00	1.44	0.34	
			Q185330	190.75	191.75	1.00	1.37	0.34	
			Q185332	191.75	192.75	1.00	1.03	0.27	
			Q185333	192.75	193.72	0.97	2.14	0.28	
193.72	198.83	**GRPBX Graphitic Breccia** Grey to pale pink fragments. Strongly graphitic matrix. Although there are areas of good typical breccia this unit seems to have larger +30cm fragments with moderate to strong fracture filling. Lower contact at 45dca.	Q185334	193.72	194.50	0.78	14	0.19	
			Q185336	194.50	195.25	0.75	10.7	0.35	
			Q185337	195.25	196.00	0.75	7.27	0.21	
			Q185338	196.00	197.00	1.00	8.83	0.33	
			Q185339	197.00	198.00	1.00	5.57	0.28	
			Q185340	198.00	198.30	0.30	2.14	0.31	
			Q185341	198.30	200.00	1.70	3.83	0.35	
198.83	201.09	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained, hard. There is mild to moderate graphite in fractures within this unit. 200.49-200.71 mafic dyke with chlorite and biotite alteration. Strong graphite overprint especially in fractures. UC @ 111dca/LC @ 70dca. Lower contact at 66dca.	Q185342	200.00	201.09	1.09	4.27	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
201.09	202.50	**GRPBX Graphitic Breccia** Grey to pale pink fragments. Graphite rich matrix. This is a typical breccia with 0.5-15cm fragments and strong fracture filling. 201.66-201.77 gouge filled fault with fractured rock 135dca. 202.00 another gouge filled fracture. Lower contact at 70dca.	Q185343	201.09	201.75	0.66	8.85	0.28	
			Q185345	201.75	202.50	0.75	7.65	0.29	
202.50	203.82	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. There is moderate fracture filling in this unit. Lower contact at 80dca.	Q185346	202.50	203.10	0.60	2.38	0.14	
			Q185347	203.10	203.82	0.72	2.43	0.28	
203.82	208.96	**GRPBX Graphitic Breccia** Grey to pale pink fragments with a strongly graphitic matrix. This unit has some larger fragments +30cm in size with moderate to strong fracture filling. Between the larger fragments there are a smaller 1-5cm fragments suspended in the matrix. Lower contact at 75dca.	Q185348	203.82	205.00	1.18	11.45	0.37	
			Q185349	205.00	206.00	1.00	4.4	0.29	
			Q185351	206.00	207.00	1.00	4.52	0.24	
			Q185350	206.00	207.00	1.00	4.5	0.25	
			Q185352	207.00	208.00	1.00	4.3	0.32	
			Q185353	208.00	208.96	0.96	6.51	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
208.96	218.55	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium to coarse grained and hard. There is mild fracture filling within this unit. 216-217 this section looks more like granodiorite but I do not see any contacts, I am wondering if what I have been calling a granodiorite is actually a coarse grained syenite or vise versa? Lower contact at 85dca.	Q185354	208.96	210.00	1.04	2.43	0.29	
			Q185356	210.00	211.00	1.00	0.84	0.37	
			Q185357	211.00	212.00	1.00	0.56	0.35	
			Q185358	212.00	213.00	1.00	0.82	0.36	
			Q185359	213.00	214.00	1.00	0.67	0.34	
			Q185360	214.00	215.00	1.00	0.34	0.32	
			Q185361	215.00	216.00	1.00	0.67	0.33	
			Q185362	216.00	217.00	1.00	0.17	0.23	
			Q185363	217.00	217.75	0.75	0.42	0.3	
			Q185365	217.75	218.55	0.80	3.99	0.35	
218.55	221.91	**GRPBX Graphitic Breccia** Grey to pale pink fragments in a graphite matrix, most of the fragments are <5cm in size but there are some larger ones up to 30cm; these larger fragments have moderate to strong fracture filling. 220.12 the remnants of possibly a quartz vein with pyrite associated with it. Lower contact at 107dca.	Q185366	218.55	219.25	0.70	9.98	0.33	
			Q185367	219.25	220.00	0.75	8.71	0.22	
			Q185368	220.00	221.00	1.00	7.62	0.84	
			Q185369	221.00	221.91	0.91	12.3	0.33	
221.91	224.91	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. Very mild chlorite alteration and mild to moderate graphite in fractures. Lower contact at 86dca.	Q185371	221.91	223.00	1.09	1.47	0.38	
			Q185370	221.91	223.00	1.09	1.47	0.36	
			Q185372	223.00	224.00	1.00	0.85	0.4	
			Q185373	224.00	224.91	0.91	0.53	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
224.91	227.97	**GRPBX Graphitic Breccia** Grey to pale pink fragments in a graphite matrix. Fragments mostly range in size from 0.5-5cm with some getting as large as 30cm. There is trace pyrite which seems to be associated with quartz fragments. Lower contact at 90dca.	Q185374	224.91	226.00	1.09	12	0.32	
			Q185376	226.00	227.00	1.00	5.03	0.34	
			Q185377	227.00	227.97	0.97	5.37	0.27	
227.97	230.85	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. Moderate to strong graphite fracture filling.	Q185378	227.97	229.00	1.03	2.39	0.38	
			Q185379	229.00	230.00	1.00	1.68	0.27	
			Q185380	230.00	230.85	0.85	1.61	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
230.85	251.46	**GRPBX Graphitic Breccia** Grey to pale pink fragment with a graphite matrix. This unit has large fragments between 1.0-1.5m with little or no fracture filling. It is possible that these are separate small units. Between the larger fragments the smaller fragments and matrix look the same as many of the other breccia units. 242.79-243.17 pink fine grained felsic dyke. UC @ 151dca/LC @ 149dca. 243.75 two mafic fragments with biotite and chlorite. 244.25 large fragmented feldspar "crackle" Lower contact at 75dca.	Q185381	230.85	232.00	1.15	5.04	0.33	
			Q185382	232.00	233.00	1.00	3.64	0.38	
			Q185383	233.00	234.00	1.00	2.36	0.36	
			Q185385	234.00	235.00	1.00	7.04	0.35	
			Q185386	235.00	236.00	1.00	5.23	0.33	
			Q185387	236.00	237.00	1.00	7.81	0.38	
			Q185388	237.00	238.00	1.00	4.66	0.24	
			Q185389	238.00	239.00	1.00	1.16	0.31	
			Q185391	239.00	240.00	1.00	3.67	0.3	
			Q185390	239.00	240.00	1.00	3.66	0.3	
			Q185392	240.00	241.00	1.00	4.46	0.28	
			Q185393	241.00	242.00	1.00	7.07	0.25	
			Q185394	242.00	243.00	1.00	0.98	0.34	
			Q185396	243.00	244.00	1.00	6.55	0.25	
			Q185397	244.00	245.00	1.00	7.93	0.29	
			Q185398	245.00	246.00	1.00	2.5	0.25	
			Q185399	246.00	247.00	1.00	5.59	0.22	
			Q185400	247.00	248.00	1.00	3.21	0.36	
			Q185401	248.00	249.00	1.00	5.25	0.35	
			Q185402	249.00	250.00	1.00	3.87	0.3	
			Q185403	250.00	251.00	1.00	3.5	0.32	
			Q185405	251.00	251.46	0.46	8.14	0.44	
251.46	253.09	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink medium grained and hard. There are numerous quartz +/- carbonate stringers that have bleached pink areas around them. Lower contact at 100dca.	Q185406	251.46	252.00	0.54	0.36	0.36	
			Q185407	252.00	253.09	1.09	0.15	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
253.09	261.33	**GRPBX Graphitic Breccia** Grey to pink fragments in a graphite matrix. Fragments range in size from <1cm to 20cm. There are a few larger fragments +30cm but for the most part this unit is made up of smaller fragments. 258.14-258.56 pale green to black mafic dyke with strong chlorite and biotite alteration and graphite overprinting. UC and LC @ ~50dca. 259.34-259.83 grey to green intermediate dyke? This dyke has a porphyritic texture and the phenocrysts have alteration halos UC and LC @ 90dca. Lower contact at 142dca.	Q185408	253.09	254.00	0.91	5.77	0.17	
			Q185409	254.00	255.00	1.00	8.92	0.08	
			Q185411	255.00	256.00	1.00	5.4	0.17	
			Q185410	255.00	256.00	1.00	5.77	0.19	
			Q185412	256.00	257.00	1.00	6.54	0.3	
			Q185413	257.00	258.00	1.00	7.43	0.23	
			Q185414	258.00	259.00	1.00	5.43	0.16	
			Q185416	259.00	260.00	1.00	3.14	0.23	
			Q185417	260.00	260.64	0.64	12	0.21	
			Q185418	260.64	261.33	0.69	7.58	0.26	
261.33	270.27	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink fine to medium grained hard. Some areas are more pink. These places seem to be more of a phase change as opposed to dykes? Graphite fracture filling is mild to moderate in sections and there is one localized breccia zone within this unit. 264.42-265.20 localized brecciated zone with moderate fracture filling. Lower contact at 78dca.	Q185419	261.33	262.00	0.67	1.1	0.06	
			Q185420	262.00	263.00	1.00	0.39	0.14	
			Q185421	263.00	263.80	0.80	0.43	0.1	
			Q185422	263.80	264.42	0.62	1.15	0.2	
			Q185423	264.42	265.20	0.78	5.02	0.38	
			Q185425	265.20	266.00	0.80	0.62	0.33	
			Q185426	266.00	267.00	1.00	1.73	0.35	
			Q185427	267.00	268.00	1.00	0.2	0.41	
			Q185428	268.00	269.00	1.00	0.32	0.27	
			Q185429	269.00	269.70	0.70	0.66	0.31	
			Q185431	269.70	270.27	0.57	1	0.36	
			Q185430	269.70	270.27	0.57	1	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
270.27 -	276.29	**GRPBX Graphitic Breccia** Grey to pale pink and pale green fragments. There are some more mafic fragments than usual in this brecciated area. The matrix is high in graphite content. There is one 1.20m syenite block/fragment in this section with minor fracture filling and some 20-50cm fragments with strong fracture filling, some to the point where it seems to almost be a brecciated area but the original larger fragment can still be seen. Lower contact at 90dca.	Q185432	270.27	271.00	0.73	8.51	0.4	
			Q185433	271.00	272.00	1.00	7.29	0.32	
			Q185434	272.00	273.00	1.00	0.93	0.32	
			Q185436	273.00	274.00	1.00	3.71	0.35	
			Q185437	274.00	275.00	1.00	9.39	0.34	
			Q185438	275.00	275.60	0.60	9.42	0.31	
			Q185439	275.60	276.29	0.69	3.15	0.25	
276.29 -	279.90	**SYENSL Syenite Sill (unmineralized)** Grey green, medium grained mafic intrusion/dyke, this unit is probably more intermediate in composition but has been labelled Gabbro in the past. Mild chlorite alteration along fractures. Lower contact at 67dca.	Q185440	276.29	277.00	0.71	0.12	0.34	
			Q185441	277.00	278.00	1.00	0.06	0.15	
			Q185442	278.00	279.00	1.00	0.05	0.25	
			Q185443	279.00	279.90	0.90	0.07	0.18	
279.90 -	283.07	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink with moderate to strong graphite fracture filling. In this unit, unlike others, the fractures can be seen all dominantly running across the unit at 150-160dca which is similar to the core angle that the mafic dyke directly below it is cutting it off. Lower contact at 149dca.	Q185445	279.90	281.00	1.10	2.13	0.18	
			Q185446	281.00	282.00	1.00	1.3	0.12	
			Q185447	282.00	283.07	1.07	0.48	0.35	
283.07 -	284.15	**MDOP Mafic Dyke with Graphitic Overprinting** Dark grey to green medium grained. This dyke is strongly overprinted with graphite to the point where there seems to be sections of semi-massive graphite. Lower contact at 128dca.	Q185448	283.07	284.15	1.08	8.54	2.63	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
284.15 -	286.26	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained hard. The fracture filling in this unit is strong to the point where some areas are almost becoming brecciated. Lower contact at 42dca.	Q185449	284.15	285.00	0.85	4.97	0.26	
			Q185451	285.00	285.70	0.70	1.3	0.33	
			Q185450	285.00	285.70	0.70	1.29	0.33	
			Q185452	285.70	286.26	0.56	0.98	0.24	
286.26 -	293.76	**GRPBX Graphitic Breccia** Fragments grey to pale pink. This area seems to be a more intense section of the above Syenite to the point where there is a distinct breccia between larger 20cm fragments. 288.90-289.00 fracture zone. 289.10-289.71 remnant mafic dyke now brecciated and strong graphite fracture filling. Lower contact at 82dca.	Q185453	286.26	287.00	0.74	10.95	0.38	
			Q185454	287.00	288.00	1.00	5.71	0.24	
			Q185456	288.00	289.00	1.00	1.84	0.35	
			Q185457	289.00	290.00	1.00	3.82	0.24	
			Q185458	290.00	291.00	1.00	6.28	0.22	
			Q185459	291.00	292.00	1.00	8.22	0.18	
			Q185460	292.00	293.00	1.00	7.9	0.28	
			Q185461	293.00	293.76	0.76	0.79	0.19	
293.76 -	294.55	**MD Mafic Dyke** Grey green fine grained mafic dyke.	Q185462	293.76	294.55	0.79	0.47	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
294.55	301.64	**GRDROP Granodiorite with Graphitic Overprinting** Black and white with some pale pink, medium to coarse grained hard. Minor carbonate fracture filling. Minor graphite fracture filling. Lower contact at 62dca	Q185463	294.55	295.00	0.45	2.85	0.3	
			Q185465	295.00	296.00	1.00	0.44	0.3	2.73
			Q185466	296.00	297.00	1.00	0.42	0.31	2.64
			Q185467	297.00	298.00	1.00	0.64	0.37	2.63
			Q185468	298.00	299.00	1.00	0.33	0.32	2.65
			Q185469	299.00	300.00	1.00	0.07	0.23	2.63
			Q185471	300.00	301.00	1.00	0.08	0.26	
			Q185470	300.00	301.00	1.00	0.08	0.25	
			Q185472	301.00	301.64	0.64	0.21	0.25	
301.64	312.46	**SYENSL Syenite Sill (unmineralized)** Grey to pale green, fine to medium grained with coarser grained phases. Mild chlorite in fractures. Lower contact at 74dca.	Q185473	301.64	302.00	0.36	0.04	0.19	
			Q185474	302.00	303.00	1.00	0.07	0.37	
			Q185476	303.00	304.00	1.00	0.02	0.18	
			Q185477	304.00	305.00	1.00	0.02	0.1	
			Q185478	305.00	306.00	1.00	0.1	0.2	
			Q185479	306.00	307.00	1.00	0.06	0.19	
			Q185480	307.00	308.00	1.00	0.07	0.08	
			Q185481	308.00	309.00	1.00	0.01	0.02	
			Q185482	309.00	310.00	1.00	0.01	0.02	
			Q185483	310.00	311.00	1.00	0.01	0.08	
			Q185485	311.00	312.00	1.00	0.06	0.07	
			Q185486	312.00	312.46	0.46	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
312.46	319.74	**GRPBX Graphitic Breccia** Large fragments surrounded by smaller fragments in a graphite matrix. There are some much larger fragments +1m with moderate graphite fracture filling. There is also some chlorite an carbonate along some fractures. Lower contact at 105dca.	Q185487	312.46	313.00	0.54	4.52	0.81	
			Q185488	313.00	314.00	1.00	6.04	0.22	
			Q185489	314.00	315.00	1.00	0.57	0.22	
			Q185491	315.00	316.00	1.00	8.9	0.24	
			Q185490	315.00	316.00	1.00	8.43	0.26	
			Q185492	316.00	317.00	1.00	2.95	0.4	
			Q185493	317.00	318.00	1.00	5.36	0.37	
			Q185494	318.00	319.00	1.00	8.09	0.25	
			Q185496	319.00	319.74	0.74	6.56	0.24	
319.74	323.97	**GRDROP Granodiorite with Graphitic Overprinting** Black and white with some pale pink, medium to coarse grained and hard. There is moderate graphite fracture filling. There is trace pyrite associated with this unit 321.85 pyrite infilling of a possible quartz carbonate veinlet? Lower contact at 65dca.	Q185497	319.74	320.50	0.76	1.15	0.11	
			Q185498	320.50	321.25	0.75	0.64	0.16	
			Q185499	321.25	322.00	0.75	0.22	0.18	
			Q185500	322.00	323.00	1.00	0.31	0.18	
			Q185501	323.00	323.97	0.97	0.88	0.19	
323.97	330.68	**GRPBX Graphitic Breccia** Again there are much larger fragments +1m in this breccia but graphite in the matrix and smaller fragments between the larger ones seems to be more intense. 326.00-326.20 pyrite and pyrrhotite associated with the graphite matrix. Lower contact at 100dca.	Q185502	323.97	325.00	1.03	5.61	0.18	
			Q185503	325.00	326.00	1.00	4.69	0.28	
			Q185505	326.00	327.00	1.00	4.02	1.86	
			Q185506	327.00	328.00	1.00	3	0.05	
			Q185507	328.00	329.00	1.00	5.83	0.06	
			Q185508	329.00	330.00	1.00	4.06	0.09	
			Q185509	330.00	330.68	0.68	7	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
330.68	334.60	**SYENSL Syenite Sill (unmineralized)** Grey to pale green, fine to medium grained with coarser grained phases. Mild chlorite in fractures. 333.23-333.39 strongly fractured area. 333.40-334 mild hematite staining?	Q185511	330.68	331.20	0.52	0.01	0.05	
			Q185510	330.68	331.20	0.52	0.01	0.02	
			Q185512	331.20	332.00	0.80	0.02	0.06	
			Q185513	332.00	333.00	1.00	0.01	0.03	
			Q185514	333.00	334.00	1.00	0.05	0.02	
			Q185516	334.00	334.60	0.60	0.04	0.03	
334.60	337.53	**GRDROP Granodiorite with Graphitic Overprinting** White, black and pale pink, medium grained and hard. The first 80cm of this unit is brecciated. There is moderate graphite fracture filling and mild chlorite in some fractures. 337.19 pyrite filled quartz vein. Lower contact at 105dca.	Q185517	334.60	335.43	0.83	3.89	0.22	
			Q185518	335.43	336.50	1.07	0.75	0.28	
			Q185519	336.50	337.53	1.03	1.53	0.14	
337.53	343.35	**GRPBX Graphitic Breccia** Similar to the last two breccia units there are some larger +1m fragments. In some areas there is more of an intense fracture filling as opposed to the classic breccia look. 337.71-338.13 Pale pink with black specks, fine grained hard. UC and LC @ 100dca. 341.70-342.60 large mafic fragments with chlorite, biotite and graphite. These could have been mafic dykes at some point but are now just fragments. Lower contact at 119dca.	Q185520	337.53	338.00	0.47	0.76	0.36	
			Q185521	338.00	339.00	1.00	12.15	0.12	
			Q185522	339.00	340.00	1.00	8.16	0.18	
			Q185523	340.00	341.00	1.00	4.3	0.21	
			Q185525	341.00	342.00	1.00	2.78	0.07	
			Q185526	342.00	342.80	0.80	4.56	0.03	
			Q185527	342.80	343.35	0.55	1.79	0.22	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
343.35	384.45	**SYENSL Syenite Sill (unmineralized)** Grey to pale green, fine to medium grained with areas of coarser grains. 343.97-344.52 Dark grey intermediate dyke with phenocrysts that have alteration halos some of which are magnetic. 359.70-361.50 Disc fracturing, discs are 1.5-2.0cm wide, chlorite in some fractures. 362.50-362.65 Fracture zone, broken rock, chlorite fracture filling. Lower contact at 67dca.	Q185528	343.35	344.52	1.17	0.12	0.03	
			Q185529	344.52	346.00	1.48	0.01	0.03	
			Q185530	346.00	347.50	1.50	0.03	0.07	
			Q185531	346.00	347.50	1.50	0.05	0.07	
			Q185532	347.50	349.00	1.50	0.1	0.05	
			Q185533	349.00	350.50	1.50	0.06	0.06	
			Q185534	350.50	352.00	1.50	0.02	0.22	
			Q185536	352.00	353.50	1.50	0.09	0.38	2.7
			Q185537	353.50	355.00	1.50	0.05	0.03	2.65
			Q185538	355.00	356.50	1.50	0.12	0.04	2.7
			Q185539	356.50	358.00	1.50	0.02	0.02	2.71
			Q185540	358.00	359.50	1.50	0.03	0.03	2.68
			Q185541	359.50	361.00	1.50	0.03	0.04	
			Q185542	361.00	362.50	1.50	0.04	0.1	
			Q185543	362.50	364.00	1.50	0.08	0.02	
			Q185545	364.00	365.50	1.50	0.04	0.12	
			Q185546	365.50	367.00	1.50	0.07	0.09	
			Q185547	367.00	368.50	1.50	0.05	0.06	
			Q185548	368.50	370.00	1.50	0.11	0.16	
			Q185549	370.00	371.50	1.50	0.06	0.12	
			Q185550	371.50	373.00	1.50	0.03	0.14	
			Q185551	371.50	373.00	1.50	0.05	0.15	
			Q185552	373.00	374.50	1.50	0.11	0.05	
			Q185553	374.50	376.00	1.50	0.06	0.2	
			Q185554	376.00	377.50	1.50	0.03	0.18	
			Q185556	377.50	379.00	1.50	0.03	0.16	
			Q185557	379.00	380.50	1.50	0.02	0.12	
			Q185558	380.50	382.00	1.50	0.04	0.06	
			Q185559	382.00	383.50	1.50	0.04	0.24	
			Q185560	383.50	384.45	0.95	1.53	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
384.45	392.96	**GRPBX Graphitic Breccia** Grey to pale pink fragments up to 20cm in size, mostly sub-angular. The matrix in this unit it some of the strongest I have seen. 385.90-387.73 Large Syenite fragment. Lower contact at 42dca.	Q185561	384.45	385.00	0.55	9.83	0.53	
			Q185562	385.00	385.90	0.90	7.08	0.2	
			Q185563	385.90	387.00	1.10	0.37	0.14	
			Q185565	387.00	387.73	0.73	0.56	0.18	
			Q185566	387.73	388.25	0.52	2.12	0.18	
			Q185567	388.25	389.00	0.75	8.95	0.32	
			Q185568	389.00	390.00	1.00	16.1	1.13	
			Q185569	390.00	391.00	1.00	9.34	0.06	
			Q185571	391.00	391.96	0.96	6.9	0.08	
			Q185570	391.00	391.96	0.96	6.74	0.08	
			Q185572	391.96	393.00	1.04	3.19	0.02	
392.96	397.69	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained and hard. This unit is not as uniform as usual and there are fragments of mafic material with strong chlorite and biotite. This could be a breccia with no graphite in the matrix but the fragments are much less distinct than in the actual graphite zones. There is moderate carbonate along fractures and very weak graphite overprinting becoming moderate at the contacts. 396.46-396.89 and 397.09-397.38 two mafic dykes with chlorite, biotite and graphite associated with them both upper and lower contacts are at 150dca. Lower contact at 88dca.	Q185573	393.00	394.00	1.00	0.59	0.05	
			Q185574	394.00	395.00	1.00	0.38	0.04	
			Q185576	395.00	396.00	1.00	0.31	0.04	
			Q185577	396.00	396.46	0.46	0.28	0.08	
			Q185578	396.46	397.00	0.54	2.05	0.11	
			Q185579	397.00	397.69	0.69	1.92	0.08	
397.69	399.20	**GRPBX Graphitic Breccia** Grey to pale pink fragments with a strong graphite matrix. Although dominantly breccia there are areas of strong fracture filling and more insitu fragments. Lower contact at 106dca.	Q185580	397.69	398.30	0.61	5.35	0.17	
			Q185581	398.30	399.20	0.90	4.57	0.6	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
399.20	400.90	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained and hard. This unit has moderate chlorite and biotite and disseminated pyrite (trace to 1%) associated with it. Lower contact at 85dca.	Q185582	399.20	400.00	0.80	0.25	0.5	
			Q185583	400.00	400.90	0.90	0.14	0.4	
400.90	412.00	**SYENSL Syenite Sill (unmineralized)** Grey to green, medium grained with sections of fine grains, the finer grained sections seem more intermediate or even felsic? Lower contact at 103dca.	Q185585	400.90	402.50	1.60	0.04	0.04	
			Q185586	402.50	404.00	1.50	0.04	0.02	
			Q185587	404.00	405.50	1.50	0.03	0.14	
			Q185588	405.50	407.00	1.50	0.02	0.1	
			Q185589	407.00	408.50	1.50	0.05	0.15	
			Q185591	408.50	410.00	1.50	0.01	0.07	
			Q185590	408.50	410.00	1.50	0.02	0.07	
			Q185592	410.00	411.00	1.00	0.04	0.4	
			Q185593	411.00	412.00	1.00	0.06	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
412.00	425.68	**SYENOP Syenite with Graphitic Overprinting** Grey to pink in sections, fine to medium grained and hard. There is chlorite, biotite and disseminated pyrite (trace to 1%) associated with this unit. Graphite fracture filling moderate to strong at times. 420.58-420.96 Dark grey fine grained mafic dyke with irregular contacts. 422.00-423.00 This section is more granitic in appearance; there is no distinct contacts but there seems to be a gradational change?	Q185594	412.00	413.00	1.00	0.14	0.92	
			Q185596	413.00	414.00	1.00	0.95	1.09	
			Q185597	414.00	415.00	1.00	0.81	0.66	
			Q185598	415.00	416.00	1.00	0.15	0.52	
			Q185599	416.00	417.00	1.00	0.43	0.2	
			Q185600	417.00	418.00	1.00	0.72	0.55	
			Q185601	418.00	419.00	1.00	0.23	0.52	
			Q185602	419.00	420.00	1.00	0.22	0.3	
			Q185603	420.00	421.00	1.00	0.13	0.04	
			Q185605	421.00	422.00	1.00	0.13	0.06	
			Q185606	422.00	423.00	1.00	0.09	0.04	
			Q185607	423.00	424.00	1.00	0.15	0.05	
			Q185608	424.00	425.00	1.00	0.21	0.15	
			Q185609	425.00	425.68	0.68	0.58	0.18	
425.68	428.50	**MDOP Mafic Dyke with Graphitic Overprinting** Grey green with strong chlorite and biotite. Graphite fracture filling moderate to strong in areas. Lower contact at 147dca.	Q185611	425.68	426.20	0.52	1.36	0.24	
			Q185610	425.68	426.20	0.52	1.33	0.21	
			Q185612	426.20	427.00	0.80	1.04	0.14	
			Q185613	427.00	428.00	1.00	1.04	0.14	
			Q185614	428.00	428.50	0.50	0.61	0.23	
428.50	431.53	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink medium grained and hard. Mild to moderate graphite fracture filling trace pyrrhotite associated with graphite filled fractures. Lower contact at 85dca.	Q185616	428.50	429.00	0.50	0.16	0.54	
			Q185617	429.00	430.00	1.00	0.32	0.57	
			Q185618	430.00	431.00	1.00	0.71	0.54	
			Q185619	431.00	431.53	0.53	1.43	0.64	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
431.53	438.28	**GRPBX Graphitic Breccia** Typical breccia with sub-angular fragments dominantly >15cm, there are two larger syenite fragments one ~80cm and one ~1.5m. The matrix is very high in graphite and trace pyrrhotite. 435.35 large massive pyrrhotite bleb, 4cm in size associated with the graphite in the matrix. 436.75-436.07 Grey green fine grained mafic dyke. UC @ 133dca/LC @ 100dca. Lower contact at 80dca.	Q185620	431.53	432.00	0.47	5.1	0.15	
			Q185621	432.00	433.00	1.00	2.99	0.32	
			Q185622	433.00	433.85	0.85	6.35	0.25	
			Q185623	433.85	434.40	0.55	1.91	0.05	
			Q185625	434.40	435.00	0.60	2.35	0.07	
			Q185626	435.00	436.00	1.00	5.52	1.66	
			Q185627	436.00	437.00	1.00	0.81	0.25	
			Q185628	437.00	437.70	0.70	3.22	0.69	
			Q185629	437.70	438.28	0.58	2.27	0.27	
438.28	440.94	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine grained moderate to strong fracture filling. 440.47-440.63 I am not sure if this is a dyke or a localized breccia unit but it has a very strong graphite overprinting with pyrrhotite and biotite associated with it. UC @ 56dca/LC @ 77dca. Lower contact at 77dca.	Q185631	438.28	439.00	0.72	0.97	0.03	
			Q185630	438.28	439.00	0.72	0.97	0.03	
			Q185632	439.00	440.00	1.00	1.2	0.25	
			Q185633	440.00	440.47	0.47	1.21	0.19	
			Q185634	440.47	440.63	0.16	6.32	2.46	
			Q185636	440.63	440.94	0.31	1.74	0.52	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
440.94	452.53	**GRPBX Graphitic Breccia** Grey to pale pink fragments ranging in size between 0.5-30cm with some larger 0.6-1m fragments. Although the breccia is well defined in some areas it grades into a more intense fracture filling with insitu fragments. In the large fragments there is moderate graphite fracture filling.	Q185637	440.94	442.00	1.06	7.61	0.44	
			Q185638	442.00	443.00	1.00	7.31	0.59	
			Q185639	443.00	444.00	1.00	3.59	0.62	
			Q185640	444.00	445.00	1.00	9.07	0.42	
			Q185641	445.00	445.51	0.51	1.82	0.21	
			Q185642	445.51	446.00	0.49	8.8	0.2	
			Q185643	446.00	447.00	1.00	9.99	0.25	
			Q185645	447.00	448.00	1.00	6.95	0.66	
			Q185646	448.00	449.00	1.00	5.67	0.15	
			Q185647	449.00	450.00	1.00	1.99	0.53	
			Q185648	450.00	451.00	1.00	5.29	0.57	
			Q185649	451.00	452.00	1.00	0.79	0.34	
			Q185651	452.00	452.53	0.53	3.82	0.33	
			Q185650	452.00	452.53	0.53	3.79	0.32	
452.53	456.07	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine grained, hard. Mild to moderate graphite fracture filling. Lower contact at 79dca.	Q185652	452.53	453.00	0.47	2.26	0.06	
			Q185653	453.00	454.00	1.00	0.36	0.06	
			Q185654	454.00	455.00	1.00	0.45	0.13	
			Q185656	455.00	456.07	1.07	2.82	0.1	
456.07	459.02	**SYENSL Syenite Sill (unmineralized)** Grey green, medium grained. 457.10-457.75 Syenite fragment with strong fracture filling. Lower contact at 98dca.	Q185657	456.07	457.00	0.93	0.41	0.16	
			Q185658	457.00	458.00	1.00	0.83	0.06	
			Q185659	458.00	459.02	1.02	0.07	0.08	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
459.02	462.43	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained, hard. Mild to moderate fracture filling with localized <5cm sections of intense fracture filling to breccia. Lower contact at 103dca.	Q185660	459.02	460.00	0.98	0.45	0.17	
			Q185661	460.00	461.00	1.00	1.08	0.1	
			Q185662	461.00	462.00	1.00	0.43	0.1	
			Q185663	462.00	463.00	1.00	0.34	0.03	
462.43	464.88	**MDOP Mafic Dyke with Graphitic Overprinting** Grey to grey green, medium grained. There are phases with more biotite and chlorite and mild fracture filling throughout. Lower contact at 34dca.	Q185665	463.00	464.00	1.00	0.18	0.06	
			Q185666	464.00	465.00	1.00	0.18	0.04	
464.88	468.72	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained and hard. Minor graphite in fractures. Lower contact at 30dca.	Q185667	465.00	466.00	1.00	0.09	0.1	
			Q185668	466.00	467.00	1.00	0.1	0.23	
			Q185669	467.00	468.00	1.00	0.18	0.15	
			Q185671	468.00	468.72	0.72	0.46	0.22	
			Q185670	468.00	468.72	0.72	0.48	0.22	
468.72	471.52	**ID Intermediate Dyke** Grey, fine to medium grained, hard.	Q185672	468.72	469.50	0.78	0.42	0.13	
			Q185673	469.50	470.50	1.00	0.13	0.07	
			Q185674	470.50	471.52	1.02	0.29	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
471.52 -	473.03	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink fine grained hard. Mild graphite fracture filling. 472.81-472.98 Grey green mafic dyke with biotite and chlorite. Moderate graphite in fractures. UC and LC @ 127dca. Lower contact at 105dca.	Q185676	471.52	472.25	0.73	0.07	0.06	
			Q185677	472.25	473.03	0.78	0.46	0.09	
473.03 -	478.87	**GRPBX Graphitic Breccia** Fragments range in size from 0.5-30cm with some large ~1m fragments. The matrix is rich in graphite. Some sections resemble more intense fracture filling with fragments still insitu. Lower contact at 103dca.	Q185678	473.03	474.00	0.97	4.04	0.43	
			Q185679	474.00	475.00	1.00	0.39	0.21	
			Q185680	475.00	476.00	1.00	3.39	0.05	
			Q185681	476.00	477.00	1.00	6.75	0.1	
			Q185682	477.00	478.00	1.00	9.38	0.27	
			Q185683	478.00	478.87	0.87	9.56	0.33	
478.87 -	483.83	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, medium grained. Mild fracture filling with localized intense fracture filling. Lower contact at 110dca.	Q185685	478.87	480.00	1.13	0.67	0.03	
			Q185686	480.00	481.00	1.00	0.73	0.08	
			Q185687	481.00	482.00	1.00	0.15	0.32	
			Q185688	482.00	483.00	1.00	0.38	0.06	
			Q185689	483.00	483.83	0.83	0.36	0.44	
483.83 -	486.67	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, fine to medium grained. Lower contact at 90dca.	Q185691	483.83	485.00	1.17	0.01	0.07	
			Q185690	483.83	485.00	1.17	0.02	0.07	
			Q185692	485.00	486.00	1.00	0.02	0.04	
			Q185693	486.00	486.67	0.67	0.06	0.1	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
486.67	490.58	**GRPBX Graphitic Breccia** Fragments up to 40cm but most are 0.5-15cm, graphite rich matrix. Some fracture filling in larger fragments. Lower contact at 18dca.	Q185694	486.67	487.20	0.53	8.69	0.37	
			Q185696	487.20	488.00	0.80	6.57	0.28	
			Q185697	488.00	489.00	1.00	5.8	0.37	
			Q185698	489.00	490.00	1.00	5.99	0.14	
			Q185699	490.00	490.58	0.58	0.7	0.06	
490.58	495.95	**SYENSL Syenite Sill (unmineralized)** Grey green, medium grained hard. 494.00-495.00m some rounded fragments may be part of the early syenite that were brecciated during the intusion of the sill?	Q185700	490.58	491.00	0.42	0.01	0.22	
			Q185701	491.00	492.00	1.00	0.03	0.03	
			Q185702	492.00	493.00	1.00	0.01	0.03	
			Q185703	493.00	494.00	1.00	0.01	0.07	
			Q185705	494.00	495.00	1.00	0.01	0.03	
			Q185706	495.00	495.95	0.95	0.02	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
495.95	513.41	**SYEN Syenite** Grey to pale pink fine to medium grained, hard. There does not seem to be any graphite associated with this syenite unit. 499.66-500.05 Dark green mafic intrusion with chlorite and biotite. There are parts of the syenite throughout this dyke. UC @ 107dca/LC @84dca. 508.85-509.26 Dark green and grey mafic dyke similar to above without any syenite. UC @ 50dca/LC @ 64dca. EOH 513.41m	Q185707	495.95	497.00	1.05	0.13	0.05	
			Q185708	497.00	498.00	1.00	0.34	0.2	
			Q185709	498.00	499.00	1.00	0.16	0.44	
			Q185710	499.00	500.00	1.00	0.11	0.21	
			Q185711	499.00	500.00	1.00	0.14	0.22	
			Q185712	500.00	501.00	1.00	0.14	0.18	
			Q185713	501.00	502.00	1.00	0.11	0.26	
			Q185714	502.00	503.00	1.00	0.08	0.24	
			Q185716	503.00	504.00	1.00	0.08	0.43	
			Q185717	504.00	505.00	1.00	0.12	0.3	
			Q185718	505.00	506.00	1.00	0.08	0.17	
			Q185719	506.00	507.00	1.00	0.07	0.27	
			Q185720	507.00	508.00	1.00	0.11	0.16	
			Q185721	508.00	509.00	1.00	0.09	0.12	
			Q185722	509.00	510.00	1.00	0.1	0.22	
			Q185723	510.00	511.00	1.00	0.11	0.47	
			Q185725	511.00	512.00	1.00	0.11	0.27	
			Q185726	512.00	513.00	1.00	0.1	0.81	
			Q185727	513.00	513.41	0.41	0.12	0.37	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Metallurgy hole	465.00	06/09/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545706.4	682934.6			Reflex APS	11/09/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.60	43.00		-86.50	Chibougamau Diamond Drilling	14/09/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K01	Ardian Peshkepia	Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☑

Core Size (1)	HQ	414	*Casing Pulled*	*Casing (1)*	51.00	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
The third hole of three to obtain matirial from the East Pipe for metallurgical testing.	With the completion of this drill hole enough material was obtained to send for metallurgical testing. From 47.23m to 409.00m, the assays from this intersection averaged 4.66% Cg over 361.77m; within this intersection a higher grade graphite zone from 47.23 to 307.00m averaged 5.36% Cg over 259.77m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
63.00			54.5	45.5	-85.1	-85.1	☑	Reflex EZ	56660	
72.00			51.5	42.5	-85.7	-85.7	☑	Reflex EZ	56561	
75.00			49.2	40.2	-85	-85	☑	Reflex EZ	56545	
78.00			49.5	40.5	-84.9	-84.9	☑	Reflex EZ	56520	
84.00			51.7	42.7	-84.9	-84.9	☑	Reflex EZ	56511	
87.00			48.4	39.4	-85.2	-85.2	☑	Reflex EZ	56482	
90.00			48.5	39.5	-85.1	-85.1	☑	Reflex EZ	56483	
93.00			51	42	-84.9	-84.9	☑	Reflex EZ	56495	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
99.00			49.4	40.4	-84.8	-84.8	☑	Reflex EZ	56489	
102.00			48.9	39.9	-85.2	-85.2	☑	Reflex EZ	56476	
111.00			51.7	42.7	-85.1	-85.1	☑	Reflex EZ	56475	
117.00			52.3	43.3	-84.9	-84.9	☑	Reflex EZ	56468	
126.00			49.3	40.3	-85.9	-85.9	☑	Reflex EZ	56455	
129.00			49.2	40.2	-85.4	-85.4	☑	Reflex EZ	56440	
135.00			49.6	40.6	-85	-85	☑	Reflex EZ	56458	
138.00			58.2	49.2	-85.3	-85.3	☑	Reflex EZ	56448	
141.00			50	41	-85	-85	☑	Reflex EZ	56459	
153.00			51.1	42.1	-85	-85	☑	Reflex EZ	56449	
156.00			48	39	-85.2	-85.2	☑	Reflex EZ	56453	
159.00			52.3	43.3	-85	-85	☑	Reflex EZ	56450	
162.00			49.8	40.8	-84.9	-84.9	☑	Reflex EZ	56449	
165.00			50.8	41.8	-85	-85	☑	Reflex EZ	56462	
168.00			48.9	39.9	-85.2	-85.2	☑	Reflex EZ	56438	
171.00			48	39	-85.3	-85.3	☑	Reflex EZ	56439	
174.00			51.9	42.9	-85.7	-85.7	☑	Reflex EZ	56429	
180.00			48.1	39.1	-85.3	-85.3	☑	Reflex EZ	56427	
183.00			56.9	47.9	-85.3	-85.3	☑	Reflex EZ	56439	
186.00			58.6	49.6	-85.5	-85.5	☑	Reflex EZ	56429	
189.00			54.4	45.4	-85.2	-85.2	☑	Reflex EZ	56423	
195.00			51.9	42.9	-85.3	-85.3	☑	Reflex EZ	56440	
198.00			49.8	40.8	-85	-85	☑	Reflex EZ	56439	
201.00			49.1	40.1	-85	-85	☑	Reflex EZ	56431	
213.00			50.5	41.5	-85	-85	☑	Reflex EZ	56441	
216.00			53.1	44.1	-85.7	-85.7	☑	Reflex EZ	56394	
219.00			48.1	39.1	-85.3	-85.3	☑	Reflex EZ	56426	
237.00			51.4	42.4	-85	-85	☑	Reflex EZ	56363	
240.00			51.8	42.8	-85	-85	☑	Reflex EZ	56466	
246.00			50.1	41.1	-85.5	-85.5	☑	Reflex EZ	56457	
249.00			49	40	-85.4	-85.4	☑	Reflex EZ	56468	
255.00			51.2	42.2	-85.1	-85.1	☑	Reflex EZ	56391	
258.00			50.9	41.9	-85	-85	☑	Reflex EZ	56399	
264.00			51	42	-85	-85	☑	Reflex EZ	56429	
267.00			51.3	42.3	-85	-85	☑	Reflex EZ	56451	
273.00			50.2	41.2	-84.9	-84.9	☑	Reflex EZ	56464	
276.00			52.8	43.8	-85.1	-85.1	☑	Reflex EZ	56457	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
279.00			51.1	42.1	-85	-85	☑	Reflex EZ	56428	
288.00			48.5	39.5	-85.2	-85.2	☑	Reflex EZ	56391	
291.00			48.8	39.8	-85.3	-85.3	☑	Reflex EZ	56443	
300.00			51.6	42.6	-85.7	-85.7	☑	Reflex EZ	56496	
303.00			48.8	39.8	-85.1	-85.1	☑	Reflex EZ	56493	
306.00			48.6	39.6	-85.3	-85.3	☑	Reflex EZ	56542	
309.00			47	38	-85.1	-85.1	☑	Reflex EZ	56436	
312.00			49.1	40.1	-85.4	-85.4	☑	Reflex EZ	56406	
318.00			51.5	42.5	-85.6	-85.6	☑	Reflex EZ	56393	
324.00			49.8	40.8	-85.5	-85.5	☑	Reflex EZ	56422	
327.00			49	40	-85.4	-85.4	☑	Reflex EZ	56511	
333.00			52.3	43.3	-85	-85	☑	Reflex EZ	56370	
339.00			49.1	40.1	-85.2	-85.2	☑	Reflex EZ	56545	
357.00			49.2	40.2	-85.2	-85.2	☑	Reflex EZ	56535	
366.00			49	40	-85	-85	☑	Reflex EZ	56364	
369.00			50.1	41.1	-85.5	-85.5	☑	Reflex EZ	56291	
372.00			52.5	43.5	-85	-85	☑	Reflex EZ	56377	
375.00			53.1	44.1	-85.3	-85.3	☑	Reflex EZ	56330	
378.00			48.6	39.6	-85.2	-85.2	☑	Reflex EZ	56415	
381.00			54.8	45.8	-85.1	-85.1	☑	Reflex EZ	56416	
384.00			50.1	41.1	-85.6	-85.6	☑	Reflex EZ	56254	
387.00			48.5	39.5	-85	-85	☑	Reflex EZ	56513	
390.00			53	44	-85	-85	☑	Reflex EZ	55881	
393.00			48.6	39.6	-85.4	-85.4	☑	Reflex EZ	56373	
396.00			49.3	40.3	-85.1	-85.1	☑	Reflex EZ	56538	
399.00			52.1	43.1	-85	-85	☑	Reflex EZ	56545	
402.00			48.9	39.9	-85.4	-85.4	☑	Reflex EZ	56312	
405.00			49.6	40.6	-85.5	-85.5	☑	Reflex EZ	56439	
408.00			48.6	39.6	-85.3	-85.3	☑	Reflex EZ	56658	
411.00			52.4	43.4	-85.6	-85.6	☑	Reflex EZ	56619	
414.00			53.1	44.1	-85	-85	☑	Reflex EZ	56527	
417.00			49.9	40.9	-85.3	-85.3	☑	Reflex EZ	56340	
423.00			52	43	-85	-85	☑	Reflex EZ	56317	
426.00			51.1	42.1	-85	-85	☑	Reflex EZ	56446	
429.00			53.8	44.8	-85.6	-85.6	☑	Reflex EZ	56472	
441.00			50.9	41.9	-85.4	-85.4	☑	Reflex EZ	56502	
444.00			50.3	41.3	-85	-85	☑	Reflex EZ	56519	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
447.00			48.7	39.7	-85.1	-85.1	☑	Reflex EZ	56483	
450.00			52.2	43.2	-84.9	-84.9	☑	Reflex EZ	56549	
453.00			53.8	44.8	-85	-85	☑	Reflex EZ	56530	
456.00			53	44	-85.5	-85.5	☑	Reflex EZ	56480	
459.00			56	47	-85	-85	☑	Reflex EZ	56514	
462.00			55.2	46.2	-85	-85	☑	Reflex EZ	56498	
465.00			57.3	48.3	-85.1	-85.1	☑	Reflex EZ	56481	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	42.78	**OB Overburden** Unknown overburden.							
42.78	47.23	**SED Sediment** Pale brown to grey, very fine grained, soft. Lower contact at 90dca.							
47.23	60.53	**GRPBX Graphitic Breccia** Black, dark grey, reddish orange, pale green, white, soft. The rock is very weathered but fragments and fracture filling can be observed. Pale green weathered chlorite is present on many fracture planes.	Q185728	47.23	48.00	0.77	11.6	0.07	
			Q185729	48.00	49.00	1.00	6.89	0.05	
			Q185731	49.00	50.00	1.00	5	0.07	
			Q185730	49.00	50.00	1.00	4.92	0.1	
			Q185732	50.00	51.00	1.00	3.4	0.05	
			Q185733	51.00	52.00	1.00	5.47	0.04	
			Q185734	52.00	53.00	1.00	3.96	0.13	
			Q185736	53.00	54.00	1.00	4.69	0.04	
			Q185737	54.00	55.00	1.00	6.67	0.22	
			Q185738	55.00	56.00	1.00	8.06	0.07	
			Q185739	56.00	57.00	1.00	3.65	0.13	
			Q185740	57.00	58.00	1.00	7.74	0.03	
			Q185741	58.00	59.00	1.00	6.56	0.06	
			Q185742	59.00	60.00	1.00	6.31	0.1	
			Q185743	60.00	60.53	0.53	13.2	0.44	

Lithology											
From	To		Sample #	From	To	Len.	CG %	S %	Core Density
60.53	- 65.65	**SYEN Syenite** Orange/red with dark grey to black filled fractures, fine grained. This rock is also very weathered and pale green to white soft chlorite can be found along fractures. This rock has no conductivity 63.73-64.07 felsic dyke or some sort of quartz vein, white with orange/red fragments of the surrounding rock. Lower contact at 78dca.	Q185745	60.53	61.00	0.47	1.17	0.01	
			Q185746	61.00	62.00	1.00	0.59	0.02	2.42
			Q185747	62.00	63.00	1.00	0.42	0.01	2.53
			Q185748	63.00	64.00	1.00	1.59	0.02	2.47
			Q185749	64.00	65.00	1.00	1.33	0.02	2.43
			Q185751	65.00	65.65	0.65	0.27	0.02	
			Q185750	65.00	65.65	0.65	0.25	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
65.65	- 140.10	**GRPBX Graphitic Breccia** Grey to orange/red, fine to medium grained in large fragments, hard. With graphite in fractures and in the matrix. In some areas it is hard to distinguish if the rock is syenite with sections if graphite rich breccia or graphite rich breccia with large fragmented areas of syenite. Instead of breaking this into many ~1m sections I have called it all the same unit. Closer to the top of the unit there are larger syenite sections that have moderate graphite fracture filling, deeper in this unit (~85m on) it is easier to see that it is a breccia. There is trace-1% pyrite associated with the matrix and quartz, usually in blebs. 82.77-83.33 orange/pink, fine grained felsic dyke. UC and LC @ 38dca.	Q185752	65.65	66.00	0.35	7.79	0.02	
			Q185753	66.00	67.00	1.00	4.52	0.02	
			Q185754	67.00	68.00	1.00	7.37	0.05	
			Q185756	68.00	69.00	1.00	2.33	0.04	2.57
			Q185757	69.00	70.00	1.00	3.87	0.03	2.56
			Q185758	70.00	71.00	1.00	6.21	0.25	2.5
			Q185759	71.00	72.00	1.00	7.39	0.03	2.56
			Q185760	72.00	73.00	1.00	5.81	0.05	2.59
			Q185761	73.00	74.00	1.00	3.24	0.14	
			Q185762	74.00	75.00	1.00	2.91	0.1	
			Q185763	75.00	76.00	1.00	6.32	0.1	
			Q185765	76.00	77.00	1.00	6.49	0.04	
			Q185766	77.00	78.00	1.00	4.26	0.07	
			Q185767	78.00	79.00	1.00	9.41	0.2	
			Q185768	79.00	80.00	1.00	1.62	0.08	
			Q185769	80.00	81.00	1.00	4.9	0.03	
			Q185770	81.00	82.00	1.00	1.85	0.04	
			Q185771	81.00	82.00	1.00	1.85	0.04	
			Q185772	82.00	83.00	1.00	7.08	0.09	
			Q185773	83.00	84.00	1.00	4.83	0.13	
			Q185774	84.00	85.00	1.00	7.39	0.16	
			Q185776	85.00	86.00	1.00	6.07	0.09	
			Q185777	86.00	87.00	1.00	2.73	0.12	
			Q185778	87.00	88.00	1.00	3.98	0.14	
			Q185779	88.00	89.00	1.00	7.67	0.09	
			Q185780	89.00	90.00	1.00	2.33	0.11	
			Q185781	90.00	91.00	1.00	2.46	0.16	
			Q185782	91.00	92.00	1.00	8.56	0.2	
			Q185783	92.00	93.00	1.00	9.33	0.17	
			Q185785	93.00	94.00	1.00	8	0.18	
			Q185786	94.00	95.00	1.00	7.94	0.21	
			Q185787	95.00	96.00	1.00	5.66	0.14	
			Q185788	96.00	97.00	1.00	6.7	0.13	
			Q185789	97.00	98.00	1.00	7.73	0.18	
			Q185790	98.00	99.00	1.00	7.1	0.16	
			Q185791	98.00	99.00	1.00	7.07	0.13	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q185792	99.00	100.00	1.00	7.24	0.17	
		Q185793	100.00	101.00	1.00	8.49	0.18	
		Q185794	101.00	102.00	1.00	5.07	0.17	
		Q185796	102.00	103.00	1.00	7.32	0.12	
		Q185797	103.00	104.00	1.00	4.31	0.2	
		Q185798	104.00	105.00	1.00	4.06	0.19	
		Q185799	105.00	106.00	1.00	6.14	0.18	
		Q185800	106.00	107.00	1.00	6.22	0.21	
		Q185801	107.00	108.00	1.00	4.75	0.21	
		Q185802	108.00	109.00	1.00	4.07	0.22	
		Q185803	109.00	110.00	1.00	9.56	0.2	
		Q185805	110.00	111.00	1.00	6.9	0.19	
		Q185806	111.00	112.00	1.00	9.6	0.24	
		Q185807	112.00	113.00	1.00	8.18	0.25	
		Q185808	113.00	114.00	1.00	5.99	0.65	
		Q185809	114.00	115.00	1.00	5.7	0.14	
		Q185810	115.00	116.00	1.00	4.48	0.08	
		Q185811	115.00	116.00	1.00	4.47	0.08	
		Q185812	116.00	117.00	1.00	5.82	0.18	
		Q185813	117.00	118.00	1.00	8.42	0.26	
		Q185814	118.00	119.00	1.00	10.35	0.16	
		Q185816	119.00	120.00	1.00	8	0.18	
		Q185817	120.00	121.00	1.00	10.05	0.28	
		Q185818	121.00	122.00	1.00	6.17	0.27	
		Q185819	122.00	123.00	1.00	1.05	0.29	
		Q185820	123.00	124.00	1.00	6.81	0.39	
		Q185821	124.00	125.00	1.00	5.54	0.23	
		Q185822	125.00	126.00	1.00	10.35	0.51	
		Q185823	126.00	127.00	1.00	11.25	0.28	
		Q185825	127.00	128.00	1.00	9.83	0.23	
		Q185826	128.00	129.00	1.00	5.51	0.32	
		Q185827	129.00	130.00	1.00	9.02	0.71	
		Q185828	130.00	131.00	1.00	4.87	0.3	
		Q185829	131.00	132.00	1.00	6.28	0.18	
		Q185831	132.00	133.00	1.00	10.15	0.95	
		Q185830	132.00	133.00	1.00	10	0.98	
		Q185832	133.00	134.00	1.00	5.5	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q185833	134.00	135.00	1.00	9.68	0.57	
			Q185834	135.00	136.00	1.00	8.8	0.31	
			Q185836	136.00	137.00	1.00	16.55	0.6	
			Q185837	137.00	138.00	1.00	9.5	0.28	
			Q185838	138.00	139.00	1.00	8.45	0.35	
			Q185839	139.00	140.10	1.10	4.41	0.28	
140.10	142.44	**ID Intermediate Dyke** Blue/green with red areas fine grained with chlorite alteration along fractures. Mild quartz carbonate veinlets. 147.75-142 deep red spots that seem to be hematite staining surround a more red section of the dyke. Lower contact at 77dca.	Q185840	140.10	141.00	0.90	1.5	0.09	
			Q185841	141.00	142.00	1.00	0.02	0.04	
			Q185842	142.00	142.44	0.44	0.66	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
142.44	193.87	**GRPBX Graphitic Breccia** Typical breccia with strong graphite matrix. Fragments range from 1-40cm with moderate fracture filling in the larger fragments. There is trace pyrite and +/-pyrrhotite associated with the matrix. 150.50 2cm wide massive pyrrhotite with pyrite and graphite. Directly after this there is a 12cm wide massive graphite section. 177.00-180.00 in this area there are some larger syenite ~1m in size. These have moderate fracture filling within them and strong fracture filling to breccia between them. This is similar to how the breccia looked in areas above 85m. 183.73-183.83 small intensely over printed mafic dyke, it is almost massive graphite with chlorite and biotite. UC and LC at 69dca. 184.29-184.90 similar biotite and chlorite dyke with less over printing but there is massive graphite at the lower contact. UC @ 95dca/LC @ 106dca. 187.67-187.73 pink fine grained felsic dyke. UC and LC at 117dca. 188.41-189.07 similar felsic dyke, medium grained in core of dyke. UC @ 90dca/LC @68dca. 191.96-192.05 similar felsic dyke. UC and LC at 52dca. Lower contact at 172dca.	Q185843	142.44	143.00	0.56	9.48	0.24	
			Q185845	143.00	144.00	1.00	5.16	0.16	
			Q185846	144.00	145.00	1.00	7.54	0.28	
			Q185847	145.00	146.00	1.00	9.86	0.33	
			Q185848	146.00	147.00	1.00	7.69	0.25	
			Q185849	147.00	148.00	1.00	6.75	0.37	
			Q185850	148.00	149.00	1.00	6.1	0.31	
			Q185851	148.00	149.00	1.00	6.11	0.31	
			Q185852	149.00	150.00	1.00	8.33	0.17	
			Q185853	150.00	151.00	1.00	16.2	1.5	
			Q185854	151.00	152.00	1.00	4.98	0.25	
			Q185856	152.00	153.00	1.00	8.6	0.36	
			Q185857	153.00	154.00	1.00	6.98	0.29	
			Q185858	154.00	155.00	1.00	4.14	0.18	
			Q185859	155.00	156.00	1.00	11.65	0.3	
			Q185860	156.00	157.00	1.00	4.15	0.16	
			Q185861	157.00	158.00	1.00	8.01	0.31	
			Q185862	158.00	159.00	1.00	5.65	0.3	
			Q185863	159.00	160.00	1.00	13.4	0.33	
			Q185865	160.00	161.00	1.00	8.6	0.27	
			Q185866	161.00	162.00	1.00	14.6	0.72	
			Q185867	162.00	163.00	1.00	8.81	0.24	
			Q185868	163.00	164.00	1.00	8.16	0.41	
			Q185869	164.00	165.00	1.00	10.1	0.31	
			Q185870	165.00	166.00	1.00	8.38	0.49	
			Q185871	165.00	166.00	1.00	8.45	0.49	
			Q185872	166.00	167.00	1.00	7.25	0.31	
			Q185873	167.00	168.00	1.00	4.6	0.35	
			Q185874	168.00	169.00	1.00	9.6	0.4	
			Q185876	169.00	170.00	1.00	6.52	0.31	
			Q185877	170.00	171.00	1.00	9.4	0.34	
			Q185878	171.00	172.00	1.00	11.2	0.34	
			Q185879	172.00	173.00	1.00	6.71	0.42	
			Q185880	173.00	174.00	1.00	5.99	0.34	
			Q185881	174.00	175.00	1.00	6.92	0.33	
			Q185882	175.00	176.00	1.00	11.5	0.24	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q185883	176.00	177.00	1.00	7.7	0.33	
		Q185885	177.00	178.00	1.00	1.19	0.35	
		Q185886	178.00	179.00	1.00	2.74	0.3	
		Q185887	179.00	180.00	1.00	4.05	0.33	
		Q185888	180.00	181.00	1.00	2.03	0.35	
		Q185889	181.00	182.00	1.00	9.59	0.34	
		Q185891	182.00	183.00	1.00	7.98	0.35	
		Q185890	182.00	183.00	1.00	7.97	0.35	
		Q185892	183.00	184.00	1.00	9.81	0.34	
		Q185893	184.00	185.00	1.00	5.55	0.13	
		Q185894	185.00	186.00	1.00	7.3	0.27	
		Q185896	186.00	187.00	1.00	9.35	0.2	
		Q185897	187.00	188.00	1.00	6.31	0.23	
		Q185898	188.00	188.41	0.41	2.46	0.16	
		Q185899	188.41	189.07	0.66	0.01	0.55	
		Q185900	189.07	190.00	0.93	5.24	0.24	
		Q185901	190.00	191.00	1.00	10	0.25	
		Q185902	191.00	192.00	1.00	7.13	0.26	
		Q185903	192.00	193.00	1.00	7.93	0.34	
		Q185905	193.00	193.87	0.87	5.03	0.46	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
193.87	224.22	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained. There is moderate to strong graphite fracture filling in this unit. About 10% of this syenite is actually localized breccia with a graphite rich matrix. These breccia zones range from 5-25cm in width with the largest two being separated by a mafic dyke around 209.5m. 209.43-209-75 fine grained dyke with biotite, chlorite and strong graphite. UC @ 116dca/LC @ 100dca. 215.60-215.76 pink, fine grained felsic dyke with blebs of pyrite along a more quartz rich vein. UC @ 97dca/LC @ 112dca. 216.91-217.09 similar mafic unit to the one above, chlorite, biotite and graphite rich. This one seems to show signs of fluid movement through the area and may have been more of a conduit o for the fluids carrying the graphite. Lower contact at 111dca.							
			Q185906	193.87	195.00	1.13	1.46	0.35	
			Q185907	195.00	196.00	1.00	1.79	0.33	2.64
			Q185908	196.00	197.00	1.00	1.92	0.37	2.62
			Q185909	197.00	198.00	1.00	1.54	0.41	2.62
			Q185910	198.00	199.00	1.00	1.89	0.19	2.63
			Q185911	198.00	199.00	1.00	1.89	0.17	
			Q185912	199.00	200.00	1.00	0.6	0.37	
			Q185913	200.00	201.00	1.00	0.89	0.37	
			Q185914	201.00	202.00	1.00	0.83	0.35	
			Q185916	202.00	203.00	1.00	0.9	0.31	
			Q185917	203.00	204.00	1.00	0.95	0.36	
			Q185918	204.00	205.00	1.00	2.04	0.35	
			Q185919	205.00	206.00	1.00	0.92	0.35	
			Q185920	206.00	207.00	1.00	6.4	0.33	
			Q185921	207.00	208.00	1.00	4.63	0.36	
			Q185922	208.00	209.00	1.00	1.38	0.38	
			Q185923	209.00	210.00	1.00	8.82	0.77	
			Q185925	210.00	211.00	1.00	7.21	0.33	
			Q185926	211.00	212.00	1.00	1.94	0.54	
			Q185927	212.00	213.00	1.00	0.44	0.35	
			Q185928	213.00	214.00	1.00	0.48	0.33	
			Q185929	214.00	215.00	1.00	0.47	0.38	
			Q185931	215.00	216.00	1.00	1.95	0.37	
			Q185930	215.00	216.00	1.00	1.94	0.35	
			Q185932	216.00	217.00	1.00	1.22	0.38	
			Q185933	217.00	218.00	1.00	3.2	0.33	
			Q185934	218.00	219.00	1.00	8.19	0.29	
			Q185936	219.00	220.00	1.00	13.6	0.28	
			Q185937	220.00	221.00	1.00	6.38	0.32	
			Q185938	221.00	222.00	1.00	2.22	0.28	
			Q185939	222.00	223.00	1.00	2.71	0.35	
			Q185940	223.00	223.75	0.75	4.04	0.35	
			Q185941	223.75	224.22	0.47	2.33	0.34	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
224.22	230.56	**GRPBX Graphitic Breccia** Typical breccia with angular to sub rounded fragments ranging in size from 1-25cm. The matrix is very rich in graphite. Some of the larger fragments exhibit graphite fracture filling. 229.80-230.56 pale green fine grained overprinted dyke, possibly intermediate in composition? UC at 74dca, the lower contact of the dyke is also the lower contact for the breccia and is at 90dca.	Q185942	224.22	225.00	0.78	11.4	0.37	
			Q185943	225.00	226.00	1.00	9.45	0.27	
			Q185945	226.00	227.00	1.00	8.26	0.25	
			Q185946	227.00	228.00	1.00	10.3	0.53	
			Q185947	228.00	229.00	1.00	7.51	0.34	
			Q185948	229.00	230.00	1.00	5.01	0.25	
			Q185949	230.00	230.56	0.56	0.31	0.05	
230.56	247.32	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained and hard. This unit has moderate to strong graphite in fractures. Through out the unit there is 20% breccia with a strong graphite matrix found locally in widths between 5-100cm. 222.50-233.03 pink with black specs, fine to medium grained felsic dyke possibly granite? Lower contact at 145dca.	Q185951	230.56	231.00	0.44	0.56	0.25	
			Q185950	230.56	231.00	0.44	0.58	0.25	
			Q185952	231.00	232.00	1.00	5.78	0.3	
			Q185953	232.00	233.00	1.00	0.41	0.51	
			Q185954	233.00	234.00	1.00	2.39	0.15	
			Q185956	234.00	235.00	1.00	5.39	0.32	
			Q185957	235.00	236.00	1.00	4.36	0.42	
			Q185958	236.00	237.00	1.00	2.87	0.43	
			Q185959	237.00	238.00	1.00	0.55	0.35	
			Q185960	238.00	239.00	1.00	5.92	0.31	
			Q185961	239.00	240.00	1.00	0.77	0.39	
			Q185962	240.00	241.00	1.00	1.96	0.36	
			Q185963	241.00	242.00	1.00	0.4	0.41	
			Q185965	242.00	243.00	1.00	3.03	0.31	
			Q185966	243.00	244.00	1.00	8.67	0.81	
			Q185967	244.00	245.00	1.00	0.7	0.33	
			Q185968	245.00	246.00	1.00	3.1	0.35	
			Q185969	246.00	246.80	0.80	4.81	0.51	
			Q185971	246.80	247.32	0.52	2.44	0.84	
			Q185970	246.80	247.32	0.52	2.47	0.87	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
247.32	249.60	**GRPBX Graphitic Breccia** This breccia ranges from a strong fracture filling around insitu fragments to a more classic breccia with more of an actual matrix surrounding fragments. The matrix is graphite rich. 248.13-248.56 The matrix becomes very strong and most of the fragments are only the size of grains from the original rock. Lower contact at 70dca.	Q185972	247.32	248.00	0.68	10.5	0.29	
			Q185973	248.00	249.00	1.00	20.8	0.07	
			Q185974	249.00	249.60	0.60	6.88	0.23	
249.60	259.74	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained and hard. Moderate to strong graphite fracture filling. Mild carbonate and sulphides in fractures. There is 15% localized breccia with a graphite matrix within this unit. 253.00-253.12 pink, fine grained hard felsic dyke. UC @ 60dca/LC @ 68dca. Lower contact at 82 dca.	Q185976	249.60	250.20	0.60	1.39	0.28	
			Q185977	250.20	251.00	0.80	0.5	0.38	
			Q185978	251.00	252.00	1.00	9.05	0.24	
			Q185979	252.00	253.00	1.00	1.16	0.37	
			Q185980	253.00	254.00	1.00	0.59	0.43	
			Q185981	254.00	255.00	1.00	3.96	0.3	
			Q185982	255.00	256.00	1.00	2.28	0.19	
			Q185983	256.00	257.00	1.00	5.37	0.23	
			Q185985	257.00	258.00	1.00	5.06	0.32	
			Q185986	258.00	259.00	1.00	1.97	0.24	
			Q185987	259.00	259.74	0.74	0.54	0.1	
259.74	263.34	**GRDROP Granodiorite with Graphitic Overprinting** Grey and white with pink, medium to coarse grained, hard. Moderate to strong graphite in fractures. Mild carbonate along some fractures. There is up to 10% localized breccia with a graphite matrix within this unit. Lower contact at 97dca.	Q185988	259.74	260.30	0.56	1.68	0.27	
			Q185989	260.30	261.30	1.00	3.67	0.31	
			Q185991	261.30	262.30	1.00	0.61	0.41	
			Q185990	261.30	262.30	1.00	0.58	0.37	
			Q185992	262.30	263.34	1.04	2.55	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
263.34	267.37	**GRPBX Graphitic Breccia** Typical breccia with graphite in the matrix with larger 10-30cm fragments of granodiorite. There is mild to moderate fracture filling in the larger fragments. 266.38-266.91 dark grey fine grained porphyry dyke with small phenocrysts. UC @ 73dca/LC @ 87dca.	Q185993	263.34	264.00	0.66	11	0.24	
			Q185994	264.00	265.00	1.00	4.77	0.42	
			Q185996	265.00	265.70	0.70	5.17	0.33	
			Q185997	265.70	266.38	0.68	5.29	0.38	
			Q185998	266.38	266.91	0.53	0.02	0.08	
			Q185999	266.91	267.37	0.46	6.44	0.42	
267.37	272.00	**GRDROP Granodiorite with Graphitic Overprinting** Grey, white with pink, medium grained hard. Mild to moderate graphite along fractures. Also mild carbonate along some fractures. Lower contact at 106dca.	Q186000	267.37	268.00	0.63	0.65	0.42	
			Q156001	268.00	269.00	1.00	0.16	0.28	
			Q156002	269.00	270.00	1.00	0.36	0.32	
			Q156003	270.00	271.00	1.00	0.73	0.29	
			Q156005	271.00	272.00	1.00	2.15	0.28	
272.00	274.08	**GRPBX Graphitic Breccia** Similar to the last breccia unit. Typical breccia with larger 10-30cm fragments as well. Larger fragments are fracture filled. 273.14-273.32 pink fine grained felsic dyke. UC and LC @ 100dca. Lower contact at 110dca.	Q156006	272.00	273.00	1.00	6.98	0.19	
			Q156007	273.00	274.08	1.08	8.79	0.24	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
274.08	279.10	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained. There is moderate graphite fracture filling. 10% localized breccia with graphite matrix. 275.90-276.55 There is some bleaching along fractures giving a brecciated appearance, there is no graphite associated with these fractures. 276.90 pale green mafic fragments in a localized brecciated area. 277.20-277.50 some fracturing crackle of larger feldspar crystals. Lower contact at 45dca.	Q156008	274.08	275.00	0.92	2.48	0.37	
			Q156009	275.00	276.00	1.00	9.63	0.17	
			Q156011	276.00	277.00	1.00	3.44	0.04	
			Q156010	276.00	277.00	1.00	3.46	0.04	
			Q156012	277.00	278.00	1.00	2.52	0.29	
			Q156013	278.00	279.10	1.10	0.35	0.26	
279.10	281.97	**ID Intermediate Dyke** Grey fine grained with some pink areas. No graphite is associated with this unit. Lower contact at 72dca.	Q156014	279.10	280.00	0.90	0.03	0.02	
			Q156016	280.00	281.00	1.00	0.01	0.06	
			Q156017	281.00	281.97	0.97	0.03	0.09	
281.97	290.03	**SYENOP Syenite with Graphitic Overprinting** Grey to pale pink, fine to medium grained. Graphite along fractures. Massive and very hard. Lower contact fractured at 111 dca.	Q156018	281.97	283.00	1.03	0.49	0.24	
			Q156019	283.00	284.00	1.00	0.23	0.22	
			Q156020	284.00	285.00	1.00	0.24	0.22	
			Q156021	285.00	286.00	1.00	0.24	0.1	
			Q156022	286.00	287.00	1.00	0.11	0.18	
			Q156023	287.00	288.00	1.00	0.32	0.12	
			Q156025	288.00	289.00	1.00	0.3	0.23	
			Q156026	289.00	290.03	1.03	1.46	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
290.03	307.00	**GRPBX Graphitic Breccia** Very dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Local syenite with graphite overprinting that contains up to 20% graphite breccia. 298.20 to 28.96 Intermediate Dyke. Dark green and fine grained and massive and very hard at 70 dca. Lower contact irregular at 123 dca.	Q156027	290.03	291.00	0.97	13.8	0.16	
			Q156028	291.00	292.00	1.00	9.69	0.24	
			Q156029	292.00	293.00	1.00	8.05	0.27	
			Q156030	293.00	294.00	1.00	8.33	0.14	
			Q156031	293.00	294.00	1.00	8.28	0.14	
			Q156032	294.00	295.00	1.00	0.45	0.33	
			Q156033	295.00	296.00	1.00	4.75	0.33	
			Q156034	296.00	297.00	1.00	7.79	0.26	
			Q156036	297.00	298.20	1.20	7.13	0.47	
			Q156037	298.20	298.96	0.76	0.12	0.05	
			Q156038	298.96	300.00	1.04	2.89	0.34	
			Q156039	300.00	301.00	1.00	0.24	0.35	
			Q156040	301.00	302.00	1.00	5.37	0.3	
			Q156041	302.00	303.00	1.00	2.93	0.24	
			Q156042	303.00	304.00	1.00	8.48	0.27	
			Q156043	304.00	305.00	1.00	7.19	0.27	
			Q156045	305.00	306.00	1.00	7.15	0.25	
			Q156046	306.00	307.00	1.00	4.36	0.11	
307.00	316.69	**SYENSL Syenite Sill (unmineralized)** Dark green. Very hard and massive. Unit is medium to coarser grained. Typical late sill unit in the pipe. Lower contact irregular at 90 dca.	Q156047	307.00	308.00	1.00	0.21	0.02	
			Q156048	308.00	309.00	1.00	0.01	0.01	
			Q156049	309.00	310.00	1.00	0.01	0.02	
			Q156051	310.00	311.00	1.00	0.01	0.01	
			Q156050	310.00	311.00	1.00	0.01	0.01	
			Q156052	311.00	312.00	1.00	0.01	0.01	
			Q156053	312.00	313.00	1.00	0.03	0.005	
			Q156054	313.00	314.00	1.00	0.01	0.01	
			Q156056	314.00	315.00	1.00	0.01	0.005	
			Q156057	315.00	316.00	1.00	0.01	0.01	
			Q156058	316.00	316.69	0.69	0.01	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
316.69	322.00	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard.	Q156059	316.69	317.00	0.31	1.07	0.19	
			Q156060	317.00	318.00	1.00	0.62	0.19	
			Q156061	318.00	319.00	1.00	3.04	0.22	
			Q156062	319.00	320.00	1.00	0.07	0.21	
			Q156063	320.00	321.00	1.00	0.08	0.1	
			Q156065	321.00	322.00	1.00	0.19	0.35	
322.00	338.72	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 336.00 to 338.72 Unit has a more mafic component yet still has a lot of graphite. Lower contact at 87 dca.	Q156066	322.00	323.00	1.00	6.06	0.11	
			Q156067	323.00	324.00	1.00	8.68	0.25	
			Q156068	324.00	325.00	1.00	7.54	0.26	
			Q156069	325.00	326.00	1.00	3.54	0.28	
			Q156070	326.00	327.00	1.00	4.59	0.19	
			Q156071	326.00	327.00	1.00	4.65	0.18	
			Q156072	327.00	328.00	1.00	16.65	0.24	
			Q156073	328.00	329.00	1.00	5.33	0.19	
			Q156074	329.00	330.00	1.00	7.25	0.21	
			Q156076	330.00	331.00	1.00	3.68	0.4	
			Q156077	331.00	332.00	1.00	10.5	0.51	
			Q156078	332.00	333.00	1.00	10.7	0.41	
			Q156079	333.00	334.00	1.00	7.32	0.56	
			Q156080	334.00	335.00	1.00	6.74	0.31	
			Q156081	335.00	336.00	1.00	14.1	0.89	
			Q156082	336.00	337.00	1.00	4.46	1.63	
			Q156083	337.00	338.00	1.00	2.46	1.34	
			Q156085	338.00	338.72	0.72	6.63	0.49	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
338.72	341.90	**SYENSL Syenite Sill (unmineralized)** Dark green. Very hard and massive. Unit is medium to coarser grained. Typical late sill unit in the pipe. Lower contact at 83 dca.	Q156086	338.72	340.00	1.28	0.01	0.04	
			Q156087	340.00	341.00	1.00	0.02	0.01	
			Q156088	341.00	341.90	0.90	0.03	0.02	
341.90	344.61	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 56 dca.	Q156089	341.90	343.00	1.10	8.57	0.24	
			Q156091	343.00	344.00	1.00	10.1	0.35	
			Q156090	343.00	344.00	1.00	9.69	0.34	
			Q156092	344.00	344.61	0.61	10.8	0.38	
344.61	345.66	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Lower contact at 76 dca.	Q156093	344.61	345.66	1.05	0.51	0.05	
345.66	346.63	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 345.72 to 345.97 Mafic dyke at 75 dca. Lower contact at 126 dca.	Q156094	345.66	346.63	0.97	6.09	0.35	
346.63	348.12	**SYENOP Syenite with Graphitic Overprinting** Grey with orange tinge. Massive and very hard. Lower contact at 110 dca.	Q156096	346.63	348.12	1.49	1.59	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
348.12	355.46	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. 352.07 to 352.65 Fault zone at 60 dca. Lots of gouge.	Q156097	348.12	349.00	0.88	6.24	0.68	
			Q156098	349.00	350.00	1.00	7.25	0.6	
			Q156099	350.00	351.00	1.00	9.46	0.37	
			Q156100	351.00	352.00	1.00	1.39	0.35	
			Q156101	352.00	353.00	1.00	10.5	0.29	
			Q156102	353.00	354.00	1.00	8.24	0.26	
			Q156103	354.00	355.00	1.00	9.6	0.22	
			Q156105	355.00	355.46	0.46	2.78	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
355.46	390.46	**SYENSL Syenite Sill (unmineralized)** Dark green. Very hard and massive. Unit is medium to coarser grained. Typical late sill unit in the pipe. Lower contact at 59 dca.	Q156106	355.46	356.00	0.54	0.09	0.1	
			Q156107	356.00	357.00	1.00	0.04	0.04	
			Q156108	357.00	358.50	1.50	0.03	0.01	
			Q156109	358.50	360.00	1.50	0.04	0.01	
			Q156110	360.00	361.50	1.50	0.02	0.02	
			Q156111	360.00	361.50	1.50	0.02	0.02	
			Q156112	361.50	363.00	1.50	0.02	0.005	
			Q156113	363.00	364.50	1.50	0.01	0.04	
			Q156114	364.50	366.00	1.50	0.01	0.05	
			Q156116	366.00	367.50	1.50	0.03	0.05	
			Q156117	367.50	369.00	1.50	0.01	0.04	
			Q156118	369.00	370.50	1.50	0.07	0.03	
			Q156119	370.50	372.00	1.50	0.07	0.04	
			Q156120	372.00	373.50	1.50	0.04	0.02	
			Q156121	373.50	375.00	1.50	0.15	0.07	
			Q156122	375.00	376.50	1.50	0.04	0.04	
			Q156123	376.50	378.00	1.50	0.01	0.02	
			Q156125	378.00	379.50	1.50	0.01	0.33	
			Q156126	379.50	381.00	1.50	0.02	1.51	
			Q156127	381.00	382.50	1.50	0.01	1.28	
			Q156128	382.50	384.00	1.50	0.04	1.39	
			Q156129	384.00	385.50	1.50	0.05	1.56	
			Q156130	385.50	387.00	1.50	0.01	1.1	
			Q156131	385.50	387.00	1.50	0.04	1.09	
			Q156132	387.00	388.50	1.50	0.01	0.74	
			Q156133	388.50	389.50	1.00	0.01	0.4	
			Q156134	389.50	390.46	0.96	0.04	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
390.46	393.32	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 59 dca.	Q156136	390.46	391.00	0.54	7.83	0.12	
			Q156137	391.00	392.00	1.00	9.29	0.15	
			Q156138	392.00	393.00	1.00	4.97	0.13	
			Q156139	393.00	393.32	0.32	3.75	0.59	
393.32	395.74	**SYEN Syenite** Grey with large orange tinted banding. Very hard and massive syenite gneiss. Lower contact 65 dca.	Q156140	393.32	394.00	0.68	1.23	0.06	
			Q156141	394.00	395.00	1.00	0.43	0.04	
			Q156142	395.00	395.74	0.74	0.86	0.06	
395.74	401.83	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Unit has a bit more chlorite and biotite alteration. Lower contact at 51 dca.	Q156143	395.74	397.00	1.26	12.5	0.02	
			Q156145	397.00	398.00	1.00	8.11	0.14	
			Q156146	398.00	399.00	1.00	3.78	0.39	
			Q156147	399.00	400.00	1.00	8.44	0.09	
			Q156148	400.00	401.00	1.00	6.05	0.26	
			Q156149	401.00	401.83	0.83	2.78	0.49	
401.83	405.00	**SYENOP Syenite with Graphitic Overprinting** Grey with large orange tinted banding. Very hard and massive syenite gneiss. Lower contact at 90 dca.	Q156151	401.83	403.00	1.17	0.26	0.49	
			Q156150	401.83	403.00	1.17	0.22	0.48	
			Q156152	403.00	404.00	1.00	0.16	0.13	
			Q156153	404.00	405.00	1.00	0.21	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
405.00	406.08	**GRPBX Graphitic Breccia** Dark grey to black. Typical graphite breccia unit. With 1 to 5cm angular breccia fragments in graphite matrix. All fragments and original rock components are strongly graphitically overprinted. Lower contact at 15 dca.	Q156154	405.00	406.08	1.08	3.3	0.12	
406.08	410.56	**SYENOP Syenite with Graphitic Overprinting** Grey with large orange tinted banding. Very hard and massive syenite gneiss. 5% graphite breccia "beds" of 1-4cm. Lower contact at 101 dca.	Q156156	406.08	407.00	0.92	0.73	0.12	
			Q156157	407.00	408.00	1.00	1.26	0.52	
			Q156158	408.00	409.00	1.00	1.14	0.21	
			Q156159	409.00	410.00	1.00	0.2	0.15	
			Q156160	410.00	410.56	0.56	0.04	0.37	
410.56	414.70	**MD Mafic Dyke** Light green and bleached. Medium to coarse grained. Possible diorite with gabbroic texture. Massive and very hard. 413.00 to 413.58 Chlorite biotite mafic dyke. UC irregular LC at 25 dca. Lower contact at 87 dca.	Q156161	410.56	411.00	0.44	0.17	0.32	
			Q156162	411.00	412.00	1.00	0.22	0.19	
			Q156163	412.00	413.00	1.00	0.07	0.2	
			Q156165	413.00	413.58	0.58	0.18	0.01	
			Q156166	413.58	414.70	1.12	0.09	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
414.70	421.48	**SYENSL Syenite Sill (unmineralized)** Dark green. Very hard and massive. Unit is fine to medium to coarser grained. Typical "late sill dyke swarm" unit in the pipe. Lower contact at 105 dca.	Q156167	414.70	416.00	1.30	0.08	0.07	
			Q156168	416.00	417.00	1.00	0.03	0.15	
			Q156169	417.00	418.00	1.00	0.05	0.12	
			Q156171	418.00	419.00	1.00	0.01	0.07	
			Q156170	418.00	419.00	1.00	0.02	0.06	
			Q156172	419.00	420.00	1.00	0.07	0.03	
			Q156173	420.00	421.48	1.48	0.06	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
421.48	465.00	**SYEN Syenite** Grey with large orange tinted banding. Very hard and massive syenite gneiss. Throughout unit are areas of chlorite and biotite alteration. Not dykes but bands of wispy alteration. 422.95 to 423.37 Chlorite biotite alteration UC at 37 dca LC at 123 dca. 424.63 to 425.59 Chlorite biotite alteration Uc at 113 dca LC at 45 dca. 426.11 to 426.58 Intermediate dyke at 90 dca. EOH 465.0m							
			Q156174	421.48	422.00	0.52	0.08	0.11	
			Q156176	422.00	422.95	0.95	0.11	0.06	
			Q156177	422.95	423.37	0.42	0.43	0.14	
			Q156178	423.37	424.63	1.26	0.15	0.11	
			Q156179	424.63	425.59	0.96	0.14	0.07	
			Q156180	425.59	426.11	0.52	0.02	0.02	
			Q156181	426.11	426.58	0.47	0.02	0.77	
			Q156182	426.58	428.00	1.42	0.13	0.01	
			Q156183	428.00	429.00	1.00	0.14	0.07	
			Q156185	429.00	430.50	1.50	0.19	0.09	
			Q156186	430.50	432.00	1.50	0.23	0.15	
			Q156187	432.00	433.50	1.50	0.16	0.09	
			Q156188	433.50	435.00	1.50	0.17	0.03	
			Q156189	435.00	436.50	1.50	0.15	0.22	
			Q156190	436.50	438.00	1.50	0.18	0.05	
			Q156191	436.50	438.00	1.50	0.22	0.06	
			Q156192	438.00	439.50	1.50	0.17	0.29	
			Q156193	439.50	441.00	1.50	0.21	0.25	
			Q156194	441.00	442.50	1.50	0.1	0.04	
			Q156196	442.50	444.00	1.50	0.39	0.44	
			Q156197	444.00	445.50	1.50	1.05	0.4	
			Q156198	445.50	447.00	1.50	0.38	0.15	
			Q156199	447.00	448.50	1.50	0.38	0.14	
			Q156200	448.50	450.00	1.50	0.18	0.22	
			Q156201	450.00	451.50	1.50	0.07	0.07	
			Q156202	451.50	453.00	1.50	0.09	0.1	
			Q156203	453.00	454.50	1.50	0.16	0.2	
			Q156205	454.50	456.00	1.50	0.06	0.06	
			Q156206	456.00	457.50	1.50	0.17	0.17	
			Q156207	457.50	459.00	1.50	0.12	0.32	
			Q156208	459.00	460.50	1.50	0.07	0.31	
			Q156209	460.50	462.00	1.50	0.13	0.08	
			Q156210	462.00	463.50	1.50	0.09	0.2	
			Q156211	462.00	463.50	1.50	0.1	0.22	
			Q156212	463.50	465.00	1.50	0.11	0.06	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	Co-ordinate System		Grid/Property		Hole Type	Length	Date Started
Ontario	UTM NAD83 Canada Zone 16		None		Metallurgy hole	448.50	13/10/2013
District	**UTM North**	**UTM East**	**Local Grid E**	**Local Grid N**	**Collar Survey Method**		**Date Completed**
Porcupine	5545670	682460			Hand-held GPS		21/10/2013
Project	**UTM Elevation**	**Azimuth Astro. (°)**	**Azimuth Grid (°)**	**Dip (°)**	**Drill Contractor**		**Date Logged**
Albany Graphite Project	130.00	135.00		-85.00	Chibougamau Diamond Drilling		24/10/2013
Area	**Claim No.**	**NTS Sheet**	**Supervised By**		**Logged By**		**Verified**
Pitopiko River	P4255105	42K10	Mike Roberts		Mike Roberts		☑
Zone/Prospect	**Assessment Rpt. No.**	**Core Storage**		**Plug Depth**	**Makes Water**	**Capped**	**Environmental Inspection**
Graphite Deposit		Hearst			☐	☑	☐

Core Size (1)	HQ	399	**Casing Pulled**	**Casing (1)**	49.50	Steel	**Plugged**	**Pulsed**	**Geophysics Contractor**	**Date Pulsed**
(2)			☐	**(2)**	37.50	Steel	☐	☐	Crone Geophysics Limited	

Purpose	Results	Comments
Metallurgical hole on West Pipe.	A substantial amount of materail for metallurgical testing was obtained, two more holes are planned to reach the 5000kg total. The assays from 49.00m to 436.78m averaged 2.08% Cg over 387.78m; within this intersection a higher grade graphite zone from 50.22m to 188.39m averaged 3.26% Cg over 138.17m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
57.00			138.6	129.6	-85.5	-85.5	☑	Reflex EZ	57221	
60.00			135.7	126.7	-85.4	-85.4	☑	Reflex EZ	57213	
63.00			135.6	126.6	-85.5	-85.5	☑	Reflex EZ	57203	
66.00			139.1	130.1	-85.5	-85.5	☑	Reflex EZ	57202	
69.00			141.7	132.7	-85.4	-85.4	☑	Reflex EZ	57225	
72.00			139.6	130.6	-85	-85	☑	Reflex EZ	57250	
78.00			134	125	-85.1	-85.1	☑	Reflex EZ	57220	
81.00			134.5	125.5	-84.9	-84.9	☑	Reflex EZ	57229	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
87.00			136.1	127.1	-84.9	-84.9	☑	Reflex EZ	57228	
90.00			134.9	125.9	-84.9	-84.9	☑	Reflex EZ	57250	
93.00			137.8	128.8	-85.5	-85.5	☑	Reflex EZ	57218	
96.00			140.6	131.6	-85.1	-85.1	☑	Reflex EZ	57196	
99.00			135.8	126.8	-85	-85	☑	Reflex EZ	57207	
105.00			141.8	132.8	-85.3	-85.3	☑	Reflex EZ	57231	
108.00			134.2	125.2	-85	-85	☑	Reflex EZ	57129	
114.00			138.9	129.9	-85.1	-85.1	☑	Reflex EZ	57259	
117.00			141.7	132.7	-85.3	-85.3	☑	Reflex EZ	57226	
120.00			135.4	126.4	-85	-85	☑	Reflex EZ	57210	
123.00			136.6	127.6	-85	-85	☑	Reflex EZ	57214	
126.00			135.3	126.3	-85	-85	☑	Reflex EZ	57201	
129.00			133.8	124.8	-85.2	-85.2	☑	Reflex EZ	57167	
132.00			133.7	124.7	-85.3	-85.3	☑	Reflex EZ	57114	
135.00			135.3	126.3	-85.3	-85.3	☑	Reflex EZ	57158	
138.00			142.2	133.2	-85.5	-85.5	☑	Reflex EZ	57200	
141.00			143.1	134.1	-85.9	-85.9	☑	Reflex EZ	57173	
144.00			137.6	128.6	-85	-85	☑	Reflex EZ	57194	
147.00			143.3	134.3	-85.5	-85.5	☑	Reflex EZ	56899	
150.00			137	128	-85.5	-85.5	☑	Reflex EZ	57128	
153.00			136.4	127.4	-85.5	-85.5	☑	Reflex EZ	57128	
156.00			142.2	133.2	-85.2	-85.2	☑	Reflex EZ	56910	
159.00			136.1	127.1	-85.4	-85.4	☑	Reflex EZ	56991	
162.00			137.4	128.4	-85	-85	☑	Reflex EZ	57199	
165.00			135.3	126.3	-85.4	-85.4	☑	Reflex EZ	56929	
168.00			140.1	131.1	-85.7	-85.7	☑	Reflex EZ	57143	
171.00			135.6	126.6	-85.2	-85.2	☑	Reflex EZ	57323	
174.00			139.6	130.6	-85.1	-85.1	☑	Reflex EZ	57136	
177.00			138.6	129.6	-85.7	-85.7	☑	Reflex EZ	56911	
180.00			138	129	-85.7	-85.7	☑	Reflex EZ	57161	
183.00			135.3	126.3	-85.2	-85.2	☑	Reflex EZ	57126	
186.00			134.2	125.2	-85.2	-85.2	☑	Reflex EZ	57204	
192.00			136.7	127.7	-85.5	-85.5	☑	Reflex EZ	57132	
195.00			136.5	127.5	-85	-85	☑	Reflex EZ	56886	
201.00			135.3	126.3	-85.3	-85.3	☑	Reflex EZ	57125	
204.00			132.5	123.5	-84.5	-84.5	☑	Reflex EZ	57246	
207.00			141.2	132.2	-85.6	-85.6	☑	Reflex EZ	57264	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
210.00			140.3	131.3	-85.7	-85.7	☑	Reflex EZ	57165	
213.00			136	127	-85.4	-85.4	☑	Reflex EZ	57083	
216.00			134.7	125.7	-85.1	-85.1	☑	Reflex EZ	57177	
219.00			142.7	133.7	-85.6	-85.6	☑	Reflex EZ	57148	
222.00			143.6	134.6	-85.4	-85.4	☑	Reflex EZ	57148	
225.00			134.1	125.1	-85.1	-85.1	☑	Reflex EZ	57109	
228.00			134.9	125.9	-85.1	-85.1	☑	Reflex EZ	57343	
231.00			138	129	-85.6	-85.6	☑	Reflex EZ	57243	
234.00			132.6	123.6	-85.2	-85.2	☑	Reflex EZ	56912	
237.00			135.6	126.6	-85	-85	☑	Reflex EZ	57181	
243.00			140.5	131.5	-85.2	-85.2	☑	Reflex EZ	57179	
246.00			135.2	126.2	-85.5	-85.5	☑	Reflex EZ	56745	
249.00			134.8	125.8	-84.9	-84.9	☑	Reflex EZ	57115	
252.00			141.1	132.1	-85.6	-85.6	☑	Reflex EZ	56590	
255.00			136.2	127.2	-85.7	-85.7	☑	Reflex EZ	56852	
258.00			135.4	126.4	-85.5	-85.5	☑	Reflex EZ	56846	
261.00			134.5	125.5	-85.2	-85.2	☑	Reflex EZ	56698	
264.00			135.4	126.4	-85.5	-85.5	☑	Reflex EZ	57052	
273.00			133.8	124.8	-85.4	-85.4	☑	Reflex EZ	57019	
279.00			132.7	123.7	-85.2	-85.2	☑	Reflex EZ	56953	
282.00			140	131	-85.9	-85.9	☑	Reflex EZ	57077	
285.00			133.2	124.2	-85.1	-85.1	☑	Reflex EZ	57070	
288.00			135.8	126.8	-85	-85	☑	Reflex EZ	56830	
291.00			134	125	-85.5	-85.5	☑	Reflex EZ	56624	
294.00			140.1	131.1	-85.7	-85.7	☑	Reflex EZ	57008	
297.00			138.4	129.4	-85.5	-85.5	☑	Reflex EZ	56905	
303.00			133.6	124.6	-85.1	-85.1	☑	Reflex EZ	56922	
306.00			135.4	126.4	-85.2	-85.2	☑	Reflex EZ	56962	
309.00			141.3	132.3	-85.4	-85.4	☑	Reflex EZ	57124	
312.00			136	127	-85.3	-85.3	☑	Reflex EZ	57253	
315.00			133.9	124.9	-85.5	-85.5	☑	Reflex EZ	57325	
321.00			132.4	123.4	-85.1	-85.1	☑	Reflex EZ	57231	
324.00			138.2	129.2	-85.1	-85.1	☑	Reflex EZ	57313	
327.00			139.4	130.4	-85.2	-85.2	☑	Reflex EZ	57341	
330.00			133.5	124.5	-85.4	-85.4	☑	Reflex EZ	56691	
345.00			141.2	132.2	-85.5	-85.5	☑	Reflex EZ	56558	
348.00			136.9	127.9	-84.9	-84.9	☑	Reflex EZ	57113	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
351.00			135.3	126.3	-85.3	-85.3	☑	Reflex EZ	57209	
357.00			141.5	132.5	-85.2	-85.2	☑	Reflex EZ	57288	
360.00			141.9	132.9	-85.5	-85.5	☑	Reflex EZ	57153	
363.00			141.1	132.1	-85.3	-85.3	☑	Reflex EZ	57317	
366.00			138	129	-85.5	-85.5	☑	Reflex EZ	57223	
372.00			134.8	125.8	-84.9	-84.9	☑	Reflex EZ	57169	
384.00			137.4	128.4	-85.5	-85.5	☑	Reflex EZ	57197	
387.00			133.7	124.7	-84.9	-84.9	☑	Reflex EZ	57164	
390.00			136.9	127.9	-84.5	-84.5	☑	Reflex EZ	57209	
393.00			136.2	127.2	-86.1	-86.1	☑	Reflex EZ	57243	
399.00			141.2	132.2	-85.5	-85.5	☑	Reflex EZ	57305	
405.00			141.4	132.4	-85.3	-85.3	☑	Reflex EZ	57207	
408.00			134.7	125.7	-85.4	-85.4	☑	Reflex EZ	57279	
411.00			137.2	128.2	-85.4	-85.4	☑	Reflex EZ	57303	
414.00			141.1	132.1	-85.5	-85.5	☑	Reflex EZ	57269	
417.00			142.2	133.2	-85.1	-85.1	☑	Reflex EZ	57570	
420.00			142.1	133.1	-85.2	-85.2	☑	Reflex EZ	57034	
423.00			135.8	126.8	-85.4	-85.4	☑	Reflex EZ	57189	
426.00			135.1	126.1	-85.3	-85.3	☑	Reflex EZ	57271	
429.00			134.7	125.7	-84.8	-84.8	☑	Reflex EZ	57403	
432.00			141.9	132.9	-85.3	-85.3	☑	Reflex EZ	57222	
435.00			135.1	126.1	-84.8	-84.8	☑	Reflex EZ	57245	
438.00			138.1	129.1	-85.5	-85.5	☑	Reflex EZ	57190	
441.00			142.9	133.9	-85.4	-85.4	☑	Reflex EZ	57171	
444.00			144.3	135.3	-85.4	-85.4	☑	Reflex EZ	57184	
447.00			140.1	131.1	-85.5	-85.5	☑	Reflex EZ	57083	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	45.00	**OB Overburden** 37.5 PW Casing. 49.5 HW Casing							
45.00	47.77	**SED Sediment** Limestone. Broken and blocky. Lower contact unconformed.							
47.77	50.22	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Unit is strongly fractured and broken and blocky. Lower contact ground away.	Q158786	47.77	49.00	1.23	0.06	0.01	
			Q158787	49.00	50.22	1.22	0.11	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
50.22	92.65	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Local green of malachite alteration around some fractures and fault seams. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 59.43 to 59.56 Malachite alteration and weathering at 78 to 58 dca. 60.22 Fault with malachite at 71 dca. 68.00 to 68.26 Fault with gouge at 72 dca. 69.15 to 69.25 Fault with malachite staining at 79 dca. 77.40 to 77.50 Biotite chlorite alteration at 68 dca. 91.87 to 91.47 Note biotite and chlorite alteration near lower contact. Lower contact very irregular at 31 dca.	Q158788	50.22	51.00	0.78	4.75	0.02	
			Q158789	51.00	52.00	1.00	2.69	0.02	
			Q158790	52.00	53.00	1.00	7.19	0.02	
			Q158791	52.00	53.00	1.00	7.05	0.02	
			Q158792	53.00	54.00	1.00	6.04	0.01	
			Q158793	54.00	55.00	1.00	4.31	0.01	
			Q158794	55.00	56.00	1.00	7.28	0.04	
			Q158796	56.00	57.00	1.00	4.56	0.04	2.56
			Q158797	57.00	58.00	1.00	3.14	0.02	2.55
			Q158798	58.00	59.00	1.00	1.26	0.08	2.61
			Q158799	59.00	60.00	1.00	2.98	0.02	2.56
			Q158800	60.00	61.00	1.00	3.39	0.01	2.56
			Q158801	61.00	62.00	1.00	1.71	0.06	
			Q158802	62.00	63.00	1.00	4.75	0.03	
			Q158803	63.00	64.00	1.00	6.3	0.02	
			Q158805	64.00	65.00	1.00	5.84	0.02	
			Q158806	65.00	66.00	1.00	5.98	0.04	
			Q158807	66.00	67.00	1.00	2.58	0.07	
			Q158808	67.00	68.00	1.00	0.45	0.2	
			Q158809	68.00	69.00	1.00	4.99	0.23	
			Q158810	69.00	70.00	1.00	5.49	0.04	
			Q158811	69.00	70.00	1.00	5.52	0.05	
			Q158812	70.00	71.00	1.00	5.72	0.06	
			Q158813	71.00	72.00	1.00	3.84	0.12	
			Q158814	72.00	73.00	1.00	5.44	0.1	
			Q158816	73.00	74.00	1.00	3.04	0.07	
			Q158817	74.00	75.00	1.00	3.64	0.25	
			Q158818	75.00	76.00	1.00	2.95	0.08	
			Q158819	76.00	77.00	1.00	4.52	0.1	
			Q158820	77.00	78.00	1.00	2.3	0.1	
			Q158821	78.00	79.00	1.00	8.62	0.14	
			Q158822	79.00	80.00	1.00	2.9	0.18	
			Q158823	80.00	81.00	1.00	3.41	0.05	
			Q158825	81.00	82.00	1.00	5.83	0.17	
			Q158826	82.00	83.00	1.00	5.5	0.32	
			Q158827	83.00	84.00	1.00	3.28	0.19	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q158828	84.00	85.00	1.00	1.93	0.09	
			Q158829	85.00	86.00	1.00	2.35	0.1	
			Q158830	86.00	87.00	1.00	0.54	0.09	
			Q158831	86.00	87.00	1.00	0.5	0.09	
			Q158832	87.00	88.00	1.00	1.09	0.14	
			Q158833	88.00	89.00	1.00	4.19	0.21	
			Q158834	89.00	90.00	1.00	0.53	0.07	
			Q158836	90.00	91.00	1.00	3.35	0.24	
			Q158837	91.00	92.00	1.00	3.55	0.17	
			Q158838	92.00	92.65	0.65	3.32	0.33	
92.65	- 93.63	**FP Feldspar Porphyry** Dark green/grey to bluish tinge. 1-3mm quartz eye phenocrysts in fine grained matrix. Lower contact sharp at 89 dca.	Q158839	92.65	93.63	0.98	0.19	0.16	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
93.63	108.43	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Note: 94.37 to 94.64 Chlorite biotite alteration with very strong graphite content at 44 dca. 99.00 TO 102.00 60% overprinted syenite. 105.17 to 105.55 Overprinted syenite block at 90 & 65 dca. 105.76 to 106.37 Overprinted syenite block at 71 & 67 dca. 106.94 to 107.81 Overprinted syenite block at 69 & 115 dca. Lower contact sharp at 71 dca.	Q158840	93.63	94.00	0.37	1.19	0.22	
			Q158841	94.00	95.00	1.00	5.6	0.29	
			Q158842	95.00	96.00	1.00	6.9	0.36	
			Q158843	96.00	97.00	1.00	0.4	0.27	
			Q158845	97.00	98.00	1.00	1.51	0.27	
			Q158846	98.00	99.00	1.00	0.3	0.19	
			Q158847	99.00	100.00	1.00	0.38	0.22	
			Q158848	100.00	101.00	1.00	0.47	0.22	
			Q158849	101.00	102.00	1.00	0.73	0.28	
			Q158851	102.00	103.00	1.00	2.9	0.21	
			Q158850	102.00	103.00	1.00	2.94	0.21	
			Q158852	103.00	104.00	1.00	2.01	0.3	
			Q158853	104.00	105.17	1.17	6.17	0.56	
			Q158854	105.17	105.55	0.38	2.69	0.49	
			Q158856	105.55	105.76	0.21	5.94	0.25	
			Q158857	105.76	106.37	0.61	0.9	0.14	
			Q158858	106.37	106.94	0.57	4.35	1.19	
			Q158859	106.94	107.81	0.87	0.22	0.11	
			Q158860	107.81	108.43	0.62	6.18	0.39	
108.43	110.02	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact sharp at 109 dca.	Q158861	108.43	109.00	0.57	0.26	0.22	
			Q158862	109.00	110.02	1.02	0.08	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
110.02	126.15	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 112.86 to 113.15 Overprinted syenite at 147 & 70 dca. 113.31 to 114.10 Overprinted syenite at 119 & 62 dca. Lower contact sharp at 71 dca.	Q158863	110.02	111.00	0.98	6.73	0.25	
			Q158865	111.00	112.00	1.00	4.71	0.44	
			Q158866	112.00	112.86	0.86	5.95	0.36	
			Q158867	112.86	113.15	0.29	0.43	0.25	
			Q158868	113.15	113.31	0.16	6.95	0.49	
			Q158869	113.31	114.10	0.79	0.65	0.37	
			Q158870	114.10	115.00	0.90	8.17	0.39	
			Q158871	114.10	115.00	0.90	8.35	0.36	
			Q158872	115.00	116.00	1.00	4.64	1.16	
			Q158873	116.00	117.00	1.00	2.48	0.58	
			Q158874	117.00	118.00	1.00	2.21	0.38	
			Q158876	118.00	119.00	1.00	4.71	0.39	
			Q158877	119.00	120.00	1.00	8.29	0.38	
			Q158878	120.00	121.00	1.00	5.6	0.41	
			Q158879	121.00	122.00	1.00	6.49	0.31	
			Q158880	122.00	123.00	1.00	5.98	0.23	
			Q158881	123.00	124.00	1.00	6.47	0.24	
			Q158882	124.00	125.00	1.00	5.97	0.31	
			Q158883	125.00	126.15	1.15	4.66	0.4	
126.15	127.46	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Unit has gossanous fractures. Lower contact fractured rusty & 1mm calcite at 63 dca.	Q158885	126.15	127.46	1.31	0.69	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
127.46 -	147.80	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 134.35 to 135.60 Strongly fractured at 70 dca. 135.90 to 136.48 Overprinted syenite block at 70 & 75 dca. 143.62 to 143.70 Brecciated calcite vein at 137 dca. Likely a healed fault. Lower contact sharp at 63 dca.	Q158886	127.46	128.00	0.54	5.61	0.12	
			Q158887	128.00	129.00	1.00	4.88	0.33	
			Q158888	129.00	130.00	1.00	8.06	0.21	
			Q158889	130.00	131.00	1.00	5.06	0.21	
			Q158890	131.00	132.00	1.00	1.16	0.22	
			Q158891	131.00	132.00	1.00	1.15	0.22	
			Q158892	132.00	133.00	1.00	4.41	0.19	
			Q158893	133.00	134.00	1.00	2.9	0.23	
			Q158894	134.00	135.00	1.00	2.66	0.13	
			Q158896	135.00	135.90	0.90	7.55	0.71	
			Q158897	135.90	136.48	0.58	0.25	0.17	
			Q158898	136.48	137.00	0.52	9.95	0.4	
			Q158899	137.00	138.00	1.00	6.2	0.29	
			Q158900	138.00	139.00	1.00	6.74	0.3	
			Q158901	139.00	140.00	1.00	6.89	0.42	
			Q158902	140.00	141.00	1.00	5.57	0.27	
			Q158903	141.00	142.00	1.00	6.68	0.45	
			Q158905	142.00	143.00	1.00	3.73	0.32	
			Q158906	143.00	144.00	1.00	4.19	0.13	
			Q158907	144.00	145.00	1.00	5.12	0.98	
			Q158908	145.00	146.00	1.00	7.09	0.23	
			Q158909	146.00	147.00	1.00	4.13	0.27	
			Q158911	147.00	147.80	0.80	3.68	0.33	
			Q158910	147.00	147.80	0.80	3.8	0.31	
147.80 -	149.06	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact sharp at 67 dca.	Q158912	147.80	149.06	1.26	1.03	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
149.06	152.86	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Lower contact irregular at 20 dca.	Q158913	149.06	150.00	0.94	4.06	0.24	
			Q158914	150.00	151.00	1.00	1.22	0.19	
			Q158916	151.00	152.00	1.00	1.99	0.17	
			Q158917	152.00	152.86	0.86	3.04	0.29	
152.86	154.35	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 153.10 to 153.11 Graphite vein at 67 dca. Lower contact irregular but sharp at 85 dca.	Q158918	152.86	154.00	1.14	0.29	0.17	
			Q158919	154.00	154.35	0.35	0.32	0.36	
154.35	156.44	**FP Feldspar Porphyry** Dark grey with green/blue tinge. Fine grained felsic to intermediate matrix with 5-10% 1-3mm rounded quartz eye and feldspar phenocrysts. Lower contact sharp at 90 dca.	Q158920	154.35	155.00	0.65	0.14	0.43	
			Q158921	155.00	156.00	1.00	0.11	0.33	
			Q158922	156.00	156.44	0.44	0.18	0.74	
156.44	158.41	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact very gradational into ash at 73 dca.	Q158923	156.44	157.00	0.56	0.15	0.17	
			Q158925	157.00	158.00	1.00	0.34	0.09	
			Q158926	158.00	158.41	0.41	0.28	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
158.41	162.50	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 158.41 to 160 Unit is fine grained volcanic ash with 1-3mm clasts of white feldspar? In a very fine grained extremely graphitic overprinted unit. Ash has a distinct bedding plane at 26 dca with an apparent fold or trough at 159.20. Lower contact sharp at 135 dca.	Q158927	158.41	159.00	0.59	9.04	0.29	
			Q158928	159.00	160.00	1.00	8.24	0.37	
			Q158929	160.00	161.00	1.00	4.51	0.25	
			Q158931	161.00	162.00	1.00	0.71	0.14	
			Q158930	161.00	162.00	1.00	0.68	0.14	
			Q158932	162.00	162.50	0.50	1.74	0.11	
162.50	165.04	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 163.31 to 163.60 Graphite breccia at 135 & 67 dca. Lower contact at 53 dca.	Q158933	162.50	163.31	0.81	0.58	0.03	
			Q158934	163.31	163.60	0.29	2.71	0.16	
			Q158936	163.60	164.00	0.40	0.32	0.18	
			Q158937	164.00	165.04	1.04	0.51	0.16	
165.04	167.74	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 165.27 to 165.41 Overprinted syenite block at 140 & 65 dca. Lower contact at 79 dca.	Q158938	165.04	166.00	0.96	3.37	0.29	
			Q158939	166.00	167.00	1.00	4.9	0.31	
			Q158940	167.00	167.74	0.74	2.85	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
167.74	183.87	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Graphite fracture filling and local minor graphite breccia. 169.86 to 169.89 Pink granite dyke at 69 dca. 173.54 to 173.64 Graphite breccia at 71 dca. Lower contact chloritic at 79 dca.	Q158941	167.74	168.00	0.26	0.68	0.12	
			Q158942	168.00	169.00	1.00	0.42	0.11	
			Q158943	169.00	170.00	1.00	0.43	0.12	
			Q158945	170.00	171.00	1.00	0.48	0.13	
			Q158946	171.00	172.00	1.00	0.32	0.07	2.74
			Q158947	172.00	173.00	1.00	0.27	0.07	2.7
			Q158948	173.00	174.00	1.00	0.6	0.28	2.72
			Q158949	174.00	175.00	1.00	0.18	0.17	2.62
			Q158951	175.00	176.00	1.00	0.19	0.12	
			Q158950	175.00	176.00	1.00	0.16	0.12	2.64
			Q158952	176.00	177.00	1.00	0.2	0.2	
			Q158953	177.00	178.00	1.00	0.11	0.13	
			Q158954	178.00	179.00	1.00	0.23	0.12	
			Q158956	179.00	180.00	1.00	0.5	0.24	
			Q158957	180.00	181.00	1.00	0.25	0.16	
			Q158958	181.00	182.00	1.00	0.09	0.12	
			Q158959	182.00	183.00	1.00	0.16	0.07	
			Q158960	183.00	183.87	0.87	0.1	0.16	
183.87	188.39	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 184.62 to 184.75 Chlorite biotite alteration at 45 dca. Lower contact irregular at 43 dca.	Q158961	183.87	185.00	1.13	1.65	0.39	
			Q158962	185.00	186.00	1.00	2.2	0.29	
			Q158963	186.00	187.00	1.00	3.33	0.38	
			Q158965	187.00	188.00	1.00	1.41	0.2	
			Q158966	188.00	188.39	0.39	1.29	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
188.39	215.22	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. 188.39 to 188.74 Mafic to intermediate dyke Lower contact at 65 dca. 212.35 to 212.75 Graphite breccia at 37 & 44 dca. Lower contact at 57 dca.							
			Q158967	188.39	188.74	0.35	0.02	0.07	
			Q158968	188.74	190.00	1.26	0.18	0.21	
			Q158969	190.00	191.00	1.00	0.21	0.12	
			Q158970	191.00	192.00	1.00	0.24	0.21	
			Q158971	191.00	192.00	1.00	0.21	0.19	
			Q158972	192.00	193.00	1.00	0.19	0.13	
			Q158973	193.00	194.00	1.00	0.14	0.13	
			Q158974	194.00	195.00	1.00	0.08	0.09	
			Q158976	195.00	196.00	1.00	0.01	0.1	
			Q158977	196.00	197.00	1.00	0.1	0.1	
			Q158978	197.00	198.00	1.00	0.17	0.3	
			Q158979	198.00	199.00	1.00	0.14	0.06	
			Q158980	199.00	200.00	1.00	0.24	0.09	
			Q158981	200.00	201.00	1.00	0.17	0.08	
			Q158982	201.00	202.00	1.00	0.16	0.25	
			Q158983	202.00	203.00	1.00	0.18	0.11	
			Q158985	203.00	204.00	1.00	0.13	0.05	
			Q158986	204.00	205.00	1.00	0.27	0.11	
			Q158987	205.00	206.00	1.00	0.03	0.08	
			Q158988	206.00	207.00	1.00	0.21	0.05	
			Q158989	207.00	208.00	1.00	0.15	0.06	
			Q158990	208.00	209.00	1.00	0.16	0.11	
			Q158991	208.00	209.00	1.00	0.21	0.11	
			Q158992	209.00	210.00	1.00	0.28	0.08	
			Q158993	210.00	211.00	1.00	0.31	0.09	
			Q158994	211.00	212.35	1.35	0.3	0.1	
			Q158996	212.35	212.75	0.40	3.11	0.12	
			Q158997	212.75	214.00	1.25	0.57	0.34	
			Q158998	214.00	215.22	1.22	0.56	0.14	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
215.22	219.95	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. Lower contact sharp at 81 dca.	Q158999	215.22	216.00	0.78	0.04	0.03	
			Q159000	216.00	217.50	1.50	0.09	0.06	
			Q159001	217.50	219.00	1.50	0.09	0.19	
			Q159002	219.00	219.95	0.95	0.07	0.72	
219.95	222.65	**DIOR Diorite** Light grey with pink tinge when wet. Massive. Very hard. Unit has salt and pepper texture of amphiboles and quartz and orthoclase/plagioclase. Granitic? 222.45 to 222.65 Mafic dyke Upper contact 43 dca. Lower contact 43 dca.	Q159003	219.95	221.00	1.05	0.09	0.08	
			Q159005	221.00	222.00	1.00	0.1	0.04	
			Q159006	222.00	222.45	0.45	0.13	0.13	
			Q159007	222.45	222.65	0.20	0.03	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.65	243.24	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Local minor brecciation and fracture filling 10% graphite breccia. 228.00 to 231.00 Fracture/fault zone. 229.44 1cm fault gouge at 47 dca. Lower contact at 37 dca.	Q159008	222.65	223.00	0.35	0.09	0.08	
			Q159009	223.00	224.00	1.00	0.2	0.14	
			Q159010	224.00	225.00	1.00	0.34	0.25	
			Q159011	224.00	225.00	1.00	0.33	0.25	
			Q159012	225.00	226.00	1.00	0.33	0.14	
			Q159013	226.00	227.00	1.00	1.25	0.18	
			Q159014	227.00	228.00	1.00	0.84	0.17	
			Q159016	228.00	229.00	1.00	0.22	0.04	
			Q159017	229.00	230.00	1.00	0.36	0.11	
			Q159018	230.00	231.00	1.00	0.34	0.09	
			Q159019	231.00	232.00	1.00	0.26	0.13	
			Q159020	232.00	233.00	1.00	0.32	0.14	
			Q159021	233.00	234.00	1.00	0.67	0.18	
			Q159022	234.00	235.00	1.00	0.79	0.13	
			Q159023	235.00	236.00	1.00	0.33	0.12	
			Q159025	236.00	237.00	1.00	0.49	0.11	
			Q159026	237.00	238.00	1.00	0.39	0.27	
			Q159027	238.00	239.00	1.00	0.13	0.08	
			Q159028	239.00	240.00	1.00	0.36	0.09	
			Q159029	240.00	241.00	1.00	0.37	0.11	
			Q159030	241.00	242.00	1.00	0.26	0.13	
			Q159031	241.00	242.00	1.00	0.22	0.14	
			Q159032	242.00	243.24	1.24	0.31	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
243.24	250.60	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 250.07 to 250.60 Overprinted syenite Upper contact sharp at 107 dca. Lower contact sharp at 68 dca.	Q159033	243.24	244.00	0.76	0.83	0.17	
			Q159034	244.00	245.00	1.00	0.42	0.16	
			Q159036	245.00	246.00	1.00	0.47	0.12	
			Q159037	246.00	247.00	1.00	0.37	0.11	
			Q159038	247.00	248.00	1.00	0.38	0.08	
			Q159039	248.00	249.00	1.00	0.25	0.06	
			Q159040	249.00	250.07	1.07	0.64	0.13	
			Q159041	250.07	250.60	0.53	0.12	0.04	
250.60	269.43	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. 261.42 to 262.41 Feldspar porphyry UC at 105 LC at 64 dca. Lower contact sharp at 39 dca.	Q159042	250.60	251.42	0.82	0.08	0.01	
			Q159043	251.42	252.41	0.99	0.07	0.06	
			Q159045	252.41	253.00	0.59	0.06	0.005	
			Q159046	253.00	254.00	1.00	0.02	0.05	
			Q159047	254.00	255.00	1.00	0.04	0.02	
			Q159048	255.00	256.00	1.00	0.09	0.07	
			Q159049	256.00	257.00	1.00	0.08	0.02	
			Q159051	257.00	258.00	1.00	0.08	0.05	
			Q159050	257.00	258.00	1.00	0.07	0.05	
			Q159052	258.00	259.00	1.00	0.02	0.01	
			Q159053	259.00	260.00	1.00	0.12	0.02	
			Q159054	260.00	261.00	1.00	0.07	0.04	
			Q159056	261.00	262.50	1.50	0.03	0.04	
			Q159057	262.50	264.00	1.50	0.03	0.07	
			Q159058	264.00	265.50	1.50	0.02	0.03	
			Q159059	265.50	267.00	1.50	0.04	0.02	
			Q159060	267.00	268.00	1.00	0.04	0.02	
			Q159061	268.00	269.00	1.00	0.08	0.05	
			Q159062	269.00	269.43	0.43	0.97	0.31	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
269.43	273.04	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 272.53 2cm crosscutting dyke at 155 dca. Cross cuts syenite at 272.58 to 273.04 UC at 35 dca. Lower contact at 61 dca.	Q159063	269.43	270.00	0.57	1.46	0.57	
			Q159065	270.00	271.00	1.00	2.64	0.22	
			Q159066	271.00	272.00	1.00	1.01	0.14	
			Q159067	272.00	273.04	1.04	1.92	0.07	
273.04	275.38	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. Lower contact at 79 dca.	Q159068	273.04	274.00	0.96	0.07	0.01	
			Q159069	274.00	275.38	1.38	0.02	0.005	
275.38	277.83	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Lower contact at 63 dca.	Q159071	275.38	276.00	0.62	0.55	0.1	
			Q159070	275.38	276.00	0.62	0.5	0.1	
			Q159072	276.00	277.00	1.00	2.06	0.13	
			Q159073	277.00	277.83	0.83	0.66	0.005	
277.83	280.34	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 59 dca.	Q159074	277.83	279.00	1.17	0.27	0.13	
			Q159076	279.00	280.34	1.34	0.15	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
280.34	308.88	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. Lower contact at 37 dca.	Q159077	280.34	281.00	0.66	0.1	0.03	
			Q159078	281.00	282.00	1.00	0.1	0.01	
			Q159079	282.00	283.50	1.50	0.02	0.04	
			Q159080	283.50	285.00	1.50	0.09	0.02	
			Q159081	285.00	286.50	1.50	0.06	0.02	
			Q159082	286.50	288.00	1.50	0.08	0.02	
			Q159083	288.00	289.50	1.50	0.04	0.005	
			Q159085	289.50	291.00	1.50	0.11	0.01	
			Q159086	291.00	292.50	1.50	0.03	0.01	
			Q159087	292.50	294.00	1.50	0.03	0.01	
			Q159088	294.00	295.50	1.50	0.1	0.05	
			Q159089	295.50	297.00	1.50	0.04	0.005	
			Q159090	297.00	298.50	1.50	0.07	0.005	
			Q159091	297.00	298.50	1.50	0.02	0.005	
			Q159092	298.50	300.00	1.50	0.07	0.02	
			Q159093	300.00	301.50	1.50	0.05	0.02	
			Q159094	301.50	303.00	1.50	0.02	0.005	
			Q159096	303.00	304.50	1.50	0.02	0.04	
			Q159097	304.50	306.00	1.50	0.03	0.04	
			Q159098	306.00	307.50	1.50	0.01	0.08	
			Q159099	307.50	308.88	1.38	0.02	0.2	
308.88	309.96	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 145 dca.	Q159100	308.88	309.96	1.08	0.18	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
309.96 -	313.72	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Lower contact sharp at 113 dca.	Q159101	309.96	311.00	1.04	1.62	0.17	
			Q159102	311.00	312.00	1.00	1.14	0.17	
			Q159103	312.00	313.00	1.00	3.14	0.22	
			Q159105	313.00	313.72	0.72	2.88	0.08	
313.72 -	315.72	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. 313.72 to 314.00 Gabbro? at 107 dca. Lower contact at 83 dca.	Q159106	313.72	315.00	1.28	0.26	0.13	
			Q159107	315.00	315.72	0.72	0.14	0.18	
315.72 -	319.39	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. 318.85 to 319.39 Syenite gneiss UC at 85 dca. Lower contact sharp at 90 dca.	Q159108	315.72	317.00	1.28	0.16	0.08	
			Q159109	317.00	318.00	1.00	0.11	0.04	
			Q159111	318.00	318.85	0.85	0.11	0.13	
			Q159110	318.00	318.85	0.85	0.1	0.14	
			Q159112	318.85	319.39	0.54	0.19	0.12	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
319.39	330.25	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Local dykes throughout. 319.50 2cm dyke crosscutting at 150 dca. 321.51 to 321.85 gabbro at 70 dca. 321.85 to 322.43 syenite at 67 dca. 326.35 to 326.93 gabbro at 67 dca. 326.93 to 327.14 feldspar dyke at 66 dca. 327.14 to 327.17 dyke at 66 dca. 327.17 to 327.22 feldspar dyke at 66 dca. 327.22 to 327.23 dyke at 66 dca. 327.23 to 327.75 strong biotite alteration 327.97 to 328.25 feldspar dyke at 51 dca. 328.25 to 328.32 dyke at 65 dca. 328.32 to 328.76 feldspar dyke at 75 dca with 5% graphite breccia. Lower contact at 61 dca.	Q159113	319.39	320.00	0.61	3.45	0.17	
			Q159114	320.00	321.00	1.00	2.1	0.06	
			Q159116	321.00	321.51	0.51	3.77	0.16	
			Q159117	321.51	322.43	0.92	0.15	0.08	
			Q159118	322.43	323.00	0.57	4.44	0.21	
			Q159119	323.00	324.00	1.00	4.27	0.33	
			Q159120	324.00	325.00	1.00	6.57	0.27	
			Q159121	325.00	326.35	1.35	3.76	0.28	
			Q159122	326.35	326.93	0.58	0.06	0.08	
			Q159123	326.93	327.23	0.30	0.07	0.34	
			Q159125	327.23	327.97	0.74	2.29	0.46	
			Q159126	327.97	328.76	0.79	0.1	0.4	
			Q159127	328.76	329.50	0.74	2.78	0.4	
			Q159128	329.50	330.25	0.75	4.21	0.18	
330.25	337.98	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained massive intrusive sill from intermediate to mafic? Typical late sill unit that occurs at this elevation. Lower contact at 105 dca.	Q159129	330.25	331.00	0.75	0.04	0.05	
			Q159131	331.00	332.00	1.00	0.05	0.03	
			Q159130	331.00	332.00	1.00	0.03	0.02	
			Q159132	332.00	333.00	1.00	0.05	0.02	
			Q159133	333.00	334.50	1.50	0.05	0.03	
			Q159134	334.50	336.00	1.50	0.02	0.03	
			Q159136	336.00	337.00	1.00	0.01	0.03	
			Q159137	337.00	337.98	0.98	0.01	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
337.98 -	339.20	**ID Intermediate Dyke** Grey/light green. Fine grained massive and very hard. 337.98 to 338.10 feldspar dyke at 105 dca. 338.14 to 338.23 feldspar dyke at 62 dca. Lower contact at 44 dca.	Q159138	337.98	338.23	0.25	0.03	0.8	
			Q159139	338.23	339.20	0.97	0.11	0.28	
339.20 -	342.72	**FDOP Felsic Dyke with Graphitic Overprinting** Light grey. Fine grained grey/purple matrix with flaky subrounded 3-5mm feldspar phenocrysts and 1mm round dark quartz eye phenocrysts. Massive and very hard. Unit has local brecciation with graphite in the matrix and porphyry as the clasts. Lower contact very irregular at 39 dca.	Q159140	339.20	340.00	0.80	0.08	0.71	
			Q159141	340.00	341.00	1.00	0.2	0.99	
			Q159142	341.00	342.00	1.00	0.45	1.45	
			Q159143	342.00	342.72	0.72	0.34	0.58	
342.72 -	343.58	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Unit may be intrusive within the porphyry. Lower contact very irregular at 130 dca.	Q159145	342.72	343.58	0.86	4.6	0.17	
343.58 -	345.56	**FDOP Felsic Dyke with Graphitic Overprinting** Light grey. Fine grained grey/purple matrix with flaky subrounded 3-5mm feldspar phenocrysts and 1mm round dark quartz eye phenocrysts. Massive and very hard. Unit has local brecciation with graphite in the matrix and porphyry as the clasts. 344.70 to 344.78 Dyke at 26 dca. Lower contact sharp at 46 dca.	Q159146	343.58	344.00	0.42	2.96	1.11	
			Q159147	344.00	345.00	1.00	0.03	0.81	
			Q159148	345.00	345.56	0.56	1.69	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
345.56	370.91	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 20cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 345.56 to 351.20 Graphite ash tuff (high grade). Black and fine grained. Laminated at 23 dca. Unit has multiple offsets of banding. 370.51 to 370.55 Granite dyke at 65 dca. Lower contact at 74 dca.	Q159149	345.56	346.00	0.44	11.6	0.43	
			Q159150	346.00	347.00	1.00	10.35	0.33	
			Q159151	346.00	347.00	1.00	10.65	0.35	
			Q159152	347.00	348.00	1.00	8.06	0.37	
			Q159153	348.00	349.00	1.00	8.06	0.3	
			Q159154	349.00	350.00	1.00	8.75	0.35	
			Q159156	350.00	351.00	1.00	10.6	0.34	
			Q159157	351.00	352.00	1.00	5.84	0.23	
			Q159158	352.00	353.00	1.00	4.77	0.25	
			Q159159	353.00	354.00	1.00	2.47	0.24	
			Q159160	354.00	355.00	1.00	4.03	0.28	
			Q159161	355.00	356.00	1.00	1.7	0.19	
			Q159162	356.00	357.00	1.00	2.34	0.16	
			Q159163	357.00	358.00	1.00	2.11	0.27	
			Q159165	358.00	359.00	1.00	2.34	0.33	
			Q159166	359.00	360.00	1.00	3.25	0.29	
			Q159167	360.00	361.00	1.00	2.88	0.35	
			Q159168	361.00	362.00	1.00	4.09	0.28	
			Q159169	362.00	363.00	1.00	2.54	0.33	
			Q159170	363.00	364.00	1.00	1.55	0.23	
			Q159171	363.00	364.00	1.00	1.56	0.23	
			Q159172	364.00	365.00	1.00	2.13	0.47	
			Q159173	365.00	366.00	1.00	2.97	0.23	
			Q159174	366.00	367.00	1.00	3.36	0.33	
			Q159176	367.00	368.00	1.00	4.02	0.35	
			Q159177	368.00	369.00	1.00	4.92	0.34	
			Q159178	369.00	370.00	1.00	3.57	0.35	
			Q159179	370.00	370.91	0.91	2.87	0.29	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
370.91	378.97	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained, massive intrusive sill unit. Typical late sill unit that occurs at this elevation. Lower contact at 107 dca.	Q159180	370.91	372.00	1.09	0.12	0.04	
			Q159181	372.00	373.50	1.50	0.12	0.03	
			Q159182	373.50	375.00	1.50	0.11	0.02	
			Q159183	375.00	376.50	1.50	0.12	0.03	
			Q159185	376.50	378.00	1.50	0.12	0.06	
			Q159186	378.00	378.97	0.97	0.13	0.07	
378.97	387.35	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 387.09 to 387.35 Syenite chill margin UC at 61 dca. Lower contact at 25 dca.	Q159187	378.97	380.00	1.03	2.28	0.23	
			Q159188	380.00	381.00	1.00	6.22	0.32	
			Q159189	381.00	382.00	1.00	2.33	0.22	
			Q159190	382.00	383.00	1.00	3.73	0.28	
			Q159191	382.00	383.00	1.00	3.8	0.28	
			Q159192	383.00	384.00	1.00	5.36	0.27	
			Q159193	384.00	385.00	1.00	6.09	0.32	
			Q159194	385.00	386.00	1.00	5.04	0.36	
			Q159196	386.00	387.09	1.09	3.69	0.26	
			Q159197	387.09	387.35	0.26	0.04	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
387.35	398.77	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained, massive intrusive sill unit. Unit has slight orange tinge and may be a syenodiorite. 395.45 to 396.00 fracture zone at 55 dca. 396.00 to 396.06 Orthoclase/calcite vein at 55 dca. Lower contact irregular at 35 dca.	Q159198	387.35	388.00	0.65	0.01	0.03	
			Q159199	388.00	389.00	1.00	0.01	0.03	
			Q159200	389.00	390.00	1.00	0.02	0.02	
			Q159201	390.00	391.50	1.50	0.03	0.02	
			Q159202	391.50	393.00	1.50	0.06	0.03	
			Q159203	393.00	394.50	1.50	0.02	0.03	
			Q159205	394.50	396.00	1.50	0.14	0.03	
			Q159206	396.00	397.00	1.00	0.04	0.07	
			Q159207	397.00	398.00	1.00	0.02	0.04	
			Q159208	398.00	398.77	0.77	0.02	0.04	
398.77	417.13	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 20 cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted some of which may be quartz diorite. 416.01 to 416.19 "gabbro" dyke UC 59 LC 71 dca. Lower contact irregular at 45 dca.	Q159209	398.77	400.00	1.23	4.15	0.33	
			Q159210	400.00	401.00	1.00	4.74	0.35	
			Q159211	400.00	401.00	1.00	4.68	0.35	
			Q159212	401.00	402.00	1.00	4.71	0.19	
			Q159213	402.00	403.00	1.00	3.03	0.22	
			Q159214	403.00	404.00	1.00	4.31	0.27	
			Q159216	404.00	405.00	1.00	4.65	0.39	
			Q159217	405.00	406.00	1.00	3.57	0.23	
			Q159218	406.00	407.00	1.00	3.46	0.2	
			Q159219	407.00	408.00	1.00	3.51	0.19	
			Q159220	408.00	409.00	1.00	4.68	0.23	
			Q159221	409.00	410.00	1.00	3.56	0.3	
			Q159222	410.00	411.00	1.00	1.91	0.2	
			Q159223	411.00	412.00	1.00	5.92	0.33	
			Q159225	412.00	413.00	1.00	0.23	0.11	
			Q159226	413.00	414.00	1.00	1.85	0.23	
			Q159227	414.00	415.00	1.00	4.3	0.4	
			Q159228	415.00	416.00	1.00	2.12	0.37	
			Q159229	416.00	417.13	1.13	2.1	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
417.13	418.34	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained, massive intrusive sill unit. 417.13 to 417.16 Syenite chill at 72 dca. Lower contact very irregular at 77 dca.	Q159230	417.13	418.00	0.87	0.17	0.33	
			Q159232	418.00	418.34	0.34	0.08	0.47	
418.34	420.12	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 20cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted some of which may be quartz diorite. Lower contact at 87 dca.	Q159233	418.34	419.00	0.66	3.73	0.13	
			Q159234	419.00	420.12	1.12	6.75	0.25	
420.12	421.00	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained, massive intrusive sill unit. Lower contact at 87 dca.	Q159236	420.12	421.00	0.88	0.06	0.22	
421.00	423.68	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. May be remnants of feldspar porphyry as what appears to be plagioclase micro fractured and healed with minor graphite? 423.59 to 423.68 lower contact a granite dyke at 74 dca.	Q159237	421.00	422.00	1.00	0.18	0.06	
			Q159238	422.00	423.00	1.00	0.17	0.07	
			Q159239	423.00	423.68	0.68	0.23	0.06	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
423.68	436.78	**GRPBX Graphitic Breccia** Grey to black with orange tinge of orthoclase in syenite fragments. 60% breccia 40% syenite. Typical graphite breccia unit. With 1 to 20cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted some of it could be quartz diorite. Local high grade veins. Lower contact at 95 dca.	Q159240	423.68	424.00	0.32	0.21	0.08	
			Q159241	424.00	425.00	1.00	6.07	0.17	
			Q159242	425.00	426.00	1.00	3.38	0.24	
			Q159243	426.00	427.00	1.00	5.27	0.44	
			Q159245	427.00	428.00	1.00	3.39	0.25	
			Q159246	428.00	429.00	1.00	6.6	0.26	
			Q159247	429.00	430.00	1.00	2.18	0.22	
			Q159248	430.00	431.00	1.00	4.79	0.55	
			Q159249	431.00	432.00	1.00	2.81	0.17	
			Q159251	432.00	433.00	1.00	3.47	0.19	
			Q159250	432.00	433.00	1.00	3.56	0.19	
			Q159252	433.00	434.00	1.00	4.58	0.11	
			Q159253	434.00	435.00	1.00	4.22	0.22	
			Q159254	435.00	436.00	1.00	0.39	0.19	
			Q159256	436.00	436.78	0.78	2.04	0.21	
436.78	438.77	**SYEN Syenite** Light grey with orange tinge of orthoclase. Massive and very hard. 436.78 to 437.09 Syenodiorite? At 85 dca. 438 to 438.77 Syenodiorite? Lower contact at 90 dca.	Q159257	436.78	437.09	0.31	0.11	0.05	
			Q159258	437.09	438.00	0.91	0.19	0.14	
			Q159259	438.00	438.77	0.77	0.12	0.1	
438.77	444.84	**SYENSL Syenite Sill (unmineralized)** Light green. Fine to medium grained, massive intrusive sill unit. Unit may be syenodiorite and seems to grade to diorite. Lower contact at 125 dca.	Q159260	438.77	440.00	1.23	0.11	0.05	
			Q159261	440.00	441.00	1.00	0.19	0.03	
			Q159262	441.00	442.00	1.00	0.15	0.03	
			Q159263	442.00	443.00	1.00	0.16	0.12	
			Q159265	443.00	444.00	1.00	0.16	0.02	
			Q159266	444.00	444.84	0.84	0.13	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
444.84	448.50	**DIOR Diorite** Light green with dark green specks. Unit is medium grained with 25% orthoclase, 25% plagioclase, 25% quartz and 25% pyroxenes. Massive and very hard. EOH 448.5m	Q159267	444.84	446.00	1.16	0.18	0.02	
			Q159268	446.00	447.00	1.00	0.02	0.01	
			Q159269	447.00	448.50	1.50	0.01	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Metallurgy hole	489.32	22/10/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545647	682490			Hand-held GPS	29/10/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.00	185.00		-85.00	Chibougamau Diamond Drilling	30/10/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K10	Mike Roberts/Clayton Kennedy	Mike Roberts/Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☐

Core Size (1)	HQ	436.82	*Casing Pulled*	*Casing (1)*	52.50	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
To collect material for metalurgical testing (West Pipe).	A substantial amount of graphitic material was recovered for metallurgical testing, including a section of graphite below the large gabbro unit. Z13-4FM06 will be drilled to help collect enough material to reach 5000kg for metallurgical testing. From 51.60m to 449.0m, the assays averaged 2.51% Cg over 397.40m; within this intersection a higher grade graphite zone from 83.26m to 256.00m averaged 3.14% Cg over 172.74m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
66.00			198.4	189.4	-84.6	-84.6	☑	Reflex EZ	57030	
69.00			199.2	190.2	-84.2	-84.2	☑	Reflex EZ	56790	
72.00			195.7	186.7	-84.5	-84.5	☑	Reflex EZ	56675	
75.00			197.4	188.4	-84.2	-84.2	☑	Reflex EZ	56660	
78.00			202.2	193.2	-84.6	-84.6	☑	Reflex EZ	56616	
81.00			195.9	186.9	-84.4	-84.4	☑	Reflex EZ	56596	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
84.00			197	188	-84.6	-84.6	☑	Reflex EZ	56612	
87.00			203.3	194.3	-84.6	-84.6	☑	Reflex EZ	56590	
90.00			195.6	186.6	-84.3	-84.3	☑	Reflex EZ	56584	
93.00			200.3	191.3	-84.2	-84.2	☑	Reflex EZ	56598	
96.00			199.6	190.6	-84.7	-84.7	☑	Reflex EZ	56531	
99.00			196	187	-84.4	-84.4	☑	Reflex EZ	56547	
102.00			198.1	189.1	-84.2	-84.2	☑	Reflex EZ	56576	
105.00			196.9	187.9	-84.7	-84.7	☑	Reflex EZ	56531	
108.00			202.6	193.6	-84.8	-84.8	☑	Reflex EZ	56560	
111.00			196.1	187.1	-84.3	-84.3	☑	Reflex EZ	56561	
114.00			197.3	188.3	-85.4	-85.4	☑	Reflex EZ	56542	
117.00			201	192	-84.3	-84.3	☑	Reflex EZ	56587	
120.00			196.3	187.3	-84.5	-84.5	☑	Reflex EZ	56562	
123.00			203.8	194.8	-84.7	-84.7	☑	Reflex EZ	56559	
126.00			197.6	188.6	-84.4	-84.4	☑	Reflex EZ	56562	
129.00			203.6	194.6	-84.5	-84.5	☑	Reflex EZ	56582	
132.00			205.2	196.2	-84.8	-84.8	☑	Reflex EZ	56544	
135.00			200.2	191.2	-84.2	-84.2	☑	Reflex EZ	56568	
138.00			199.8	190.8	-84.7	-84.7	☑	Reflex EZ	56544	
141.00			200.8	191.8	-84.8	-84.8	☑	Reflex EZ	56499	
144.00			199	190	-85.2	-85.2	☑	Reflex EZ	56526	
147.00			201	192	-84.4	-84.4	☑	Reflex EZ	56569	
150.00			197.1	188.1	-84.7	-84.7	☑	Reflex EZ	56473	
153.00			202	193	-84.9	-84.9	☑	Reflex EZ	56396	
156.00			198.5	189.5	-84.5	-84.5	☑	Reflex EZ	55440	
159.00			201.5	192.5	-84	-84	☑	Reflex EZ	56620	
162.00			196.1	187.1	-84.6	-84.6	☑	Reflex EZ	56588	
165.00			203.2	194.2	-84.5	-84.5	☑	Reflex EZ	56593	
168.00			202	193	-84.4	-84.4	☑	Reflex EZ	56606	
171.00			197.5	188.5	-84.7	-84.7	☑	Reflex EZ	56544	
174.00			195.5	186.5	-84.7	-84.7	☑	Reflex EZ	56537	
177.00			199.6	190.6	-84.3	-84.3	☑	Reflex EZ	56579	
180.00			197.1	188.1	-84.4	-84.4	☑	Reflex EZ	56523	
183.00			199.8	190.8	-84.9	-84.9	☑	Reflex EZ	56407	
186.00			203.9	194.9	-84.8	-84.8	☑	Reflex EZ	56538	
189.00			204.1	195.1	-84.8	-84.8	☑	Reflex EZ	56496	
192.00			197.1	188.1	-84.7	-84.7	☑	Reflex EZ	56531	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
195.00			203.4	194.4	-84.5	-84.5	☑	Reflex EZ	56552	
198.00			200.3	191.3	-84.3	-84.3	☑	Reflex EZ	56585	
201.00			200.4	191.4	-84.6	-84.6	☑	Reflex EZ	56572	
204.00			200.2	191.2	-84.8	-84.8	☑	Reflex EZ	56489	
207.00			196.6	187.6	-84.3	-84.3	☑	Reflex EZ	56521	
210.00			202.7	193.7	-84.8	-84.8	☑	Reflex EZ	56528	
213.00			198.6	189.6	-84.3	-84.3	☑	Reflex EZ	56511	
216.00			198.1	189.1	-84.8	-84.8	☑	Reflex EZ	56595	
219.00			201.8	192.8	-84.8	-84.8	☑	Reflex EZ	56516	
222.00			202.3	193.3	-84.8	-84.8	☑	Reflex EZ	56550	
225.00			200.2	191.2	-84.3	-84.3	☑	Reflex EZ	56559	
228.00			196.1	187.1	-84.4	-84.4	☑	Reflex EZ	56564	
231.00			198.6	189.6	-84.8	-84.8	☑	Reflex EZ	56550	
234.00			203.3	194.3	-84.7	-84.7	☑	Reflex EZ	56608	
237.00			196	187	-84.5	-84.5	☑	Reflex EZ	56382	
240.00			202.8	193.8	-84.7	-84.7	☑	Reflex EZ	56550	
243.00			201.2	192.2	-84.3	-84.3	☑	Reflex EZ	56612	
246.00			197.6	188.6	-84.7	-84.7	☑	Reflex EZ	56552	
249.00			198.8	189.8	-84.7	-84.7	☑	Reflex EZ	56557	
252.00			203	194	-84.9	-84.9	☑	Reflex EZ	56548	
255.00			201.4	192.4	-84.3	-84.3	☑	Reflex EZ	56571	
258.00			197.7	188.7	-84.3	-84.3	☑	Reflex EZ	56589	
261.00			197.3	188.3	-84.5	-84.5	☑	Reflex EZ	56578	
264.00			199.2	190.2	-84.7	-84.7	☑	Reflex EZ	56567	
267.00			203.2	194.2	-84.9	-84.9	☑	Reflex EZ	56570	
270.00			202.8	193.8	-84.3	-84.3	☑	Reflex EZ	56657	
273.00			199.8	190.8	-84.9	-84.9	☑	Reflex EZ	56259	
276.00			200.7	191.7	-84.7	-84.7	☑	Reflex EZ	56189	
279.00			205.1	196.1	-84.8	-84.8	☑	Reflex EZ	56227	
282.00			201.6	192.6	-84.2	-84.2	☑	Reflex EZ	56404	
285.00			200.7	191.7	-84.7	-84.7	☑	Reflex EZ	56476	
288.00			205.8	196.8	-84.6	-84.6	☑	Reflex EZ	56360	
291.00			202.6	193.6	-84.2	-84.2	☑	Reflex EZ	56140	
294.00			198.8	189.8	-84.6	-84.6	☑	Reflex EZ	56438	
297.00			206	197	-84.6	-84.6	☑	Reflex EZ	56306	
300.00			203.9	194.9	-84.8	-84.8	☑	Reflex EZ	56309	
303.00			206.6	197.6	-83.9	-83.9	☑	Reflex EZ	56236	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
306.00			204.5	195.5	-84.3	-84.3	☑	Reflex EZ	56262	
309.00			205.6	196.6	-84.7	-84.7	☑	Reflex EZ	56292	
312.00			199.6	190.6	-84.2	-84.2	☑	Reflex EZ	56273	
315.00			205.6	196.6	-84.6	-84.6	☑	Reflex EZ	56184	
318.00			201.1	192.1	-84.3	-84.3	☑	Reflex EZ	56238	
321.00			201.3	192.3	-84.1	-84.1	☑	Reflex EZ	56705	
324.00			205.8	196.8	-84.6	-84.6	☑	Reflex EZ	56713	
327.00			206.6	197.6	-84.6	-84.6	☑	Reflex EZ	55841	
330.00			206	197	-84.6	-84.6	☑	Reflex EZ	56642	
333.00			204.4	195.4	-84.7	-84.7	☑	Reflex EZ	56660	
336.00			198.8	189.8	-84.6	-84.6	☑	Reflex EZ	56502	
339.00			203.8	194.8	-84.8	-84.8	☑	Reflex EZ	56655	
342.00			204.9	195.9	-85.2	-85.2	☑	Reflex EZ	56252	
345.00			199.3	190.3	-84.6	-84.6	☑	Reflex EZ	56657	
348.00			200.6	191.6	-84.6	-84.6	☑	Reflex EZ	56774	
351.00			200.4	191.4	-84.3	-84.3	☑	Reflex EZ	56612	
354.00			200.4	191.4	-84.7	-84.7	☑	Reflex EZ	56490	
357.00			202	193	-84.2	-84.2	☑	Reflex EZ	56634	
360.00			206.6	197.6	-84.3	-84.3	☑	Reflex EZ	56414	
363.00			200.5	191.5	-84.8	-84.8	☑	Reflex EZ	56629	
366.00			197.8	188.8	-83.8	-83.8	☑	Reflex EZ	56584	
369.00			198.8	189.8	-84.3	-84.3	☑	Reflex EZ	56635	
372.00			201.7	192.7	-84.2	-84.2	☑	Reflex EZ	56606	
375.00			208.1	199.1	-82.6	-82.6	☑	Reflex EZ	56589	
378.00			205.1	196.1	-84.4	-84.4	☑	Reflex EZ	56591	
381.00			203.6	194.6	-84.2	-84.2	☑	Reflex EZ	56616	
384.00			211	202	-84.3	-84.3	☑	Reflex EZ	56582	
387.00			205.3	196.3	-84.9	-84.9	☑	Reflex EZ	56666	
390.00			206.3	197.3	-84.4	-84.4	☑	Reflex EZ	56638	
393.00			199.8	190.8	-84.3	-84.3	☑	Reflex EZ	56698	
396.00			199.5	190.5	-84.2	-84.2	☑	Reflex EZ	56450	
399.00			201.3	192.3	-84.7	-84.7	☑	Reflex EZ	56478	
402.00			206.4	197.4	-84.7	-84.7	☑	Reflex EZ	56309	
405.00			201.8	192.8	-84.7	-84.7	☑	Reflex EZ	56593	
408.00			203.8	194.8	-85.1	-85.1	☑	Reflex EZ	56694	
411.00			205.6	196.6	-84.3	-84.3	☑	Reflex EZ	56650	
414.00			200.4	191.4	-84.4	-84.4	☑	Reflex EZ	56473	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
417.00			207.9	198.9	-84.6	-84.6	☑	Reflex EZ	56589	
420.00			204.8	195.8	-84.7	-84.7	☑	Reflex EZ	56677	
423.00			205.6	196.6	-84.7	-84.7	☑	Reflex EZ	56672	
426.00			204.6	195.6	-84.2	-84.2	☑	Reflex EZ	56642	
429.00			201.8	192.8	-84.2	-84.2	☑	Reflex EZ	56645	
432.00			202.9	193.9	-84.8	-84.8	☑	Reflex EZ	56536	
435.00			203	194	-84.2	-84.2	☑	Reflex EZ	56651	
438.00			207.3	198.3	-84.7	-84.7	☑	Reflex EZ	56537	
441.00			208.5	199.5	-84.5	-84.5	☑	Reflex EZ	56631	
444.00			201.3	192.3	-84.3	-84.3	☑	Reflex EZ	56580	
447.00			207.2	198.2	-84.8	-84.8	☑	Reflex EZ	56534	
450.00			203.5	194.5	-84.5	-84.5	☑	Reflex EZ	56556	
453.00			204.3	195.3	-84.9	-84.9	☑	Reflex EZ	56569	
456.00			203.8	194.8	-84.1	-84.1	☑	Reflex EZ	56381	
459.00			205.3	196.3	-84.2	-84.2	☑	Reflex EZ	56523	
462.00			203.8	194.8	-84.2	-84.2	☑	Reflex EZ	56452	
465.00			208.9	199.9	-84.6	-84.6	☑	Reflex EZ	56389	
468.00			203.6	194.6	-84.2	-84.2	☑	Reflex EZ	56557	
471.00			208.3	199.3	-84.4	-84.4	☑	Reflex EZ	56565	
474.00			203.1	194.1	-84.2	-84.2	☑	Reflex EZ	56474	
477.00			208.4	199.4	-84.3	-84.3	☑	Reflex EZ	56661	
480.00			204	195	-84.7	-84.7	☑	Reflex EZ	56645	
483.00			208.7	199.7	-84.4	-84.4	☑	Reflex EZ	56599	
486.00			209.7	200.7	-84.6	-84.6	☑	Reflex EZ	56678	
489.00			203.7	194.7	-84.6	-84.6	☑	Reflex EZ	56719	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	45.50	**OB Overburden**							
45.50	51.60	**SED Sediment** Mixture of mud breccia and limestone. Broken and blocky. 45.90 to 49.00 Brecciated mud. Lower contact unconformed at 90 dca.							
51.60	55.65	**SYENOP Syenite with Graphitic Overprinting** Orange and rusty resulted from near surface fracturing and overburden seep. 51.99 to 52.60 Graphite gouge. At 45 dca. Lower contact gradational.	Q159271	51.60	52.00	0.40	0.23	0.04	
			Q159270	51.60	52.00	0.40	0.29	0.03	
			Q159272	52.00	52.60	0.60	2.83	0.03	
			Q159273	52.60	53.00	0.40	0.28	0.01	
			Q159274	53.00	54.00	1.00	0.08	0.01	
			Q159276	54.00	55.00	1.00	0.1	0.01	
			Q159277	55.00	55.65	0.65	0.48	0.02	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
55.65	80.64	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Local green of malachite alteration around some fractures and fault seams. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 65.13 to 65.20 Fault gouge at 65 dca. 80.28 to 80.49 Gabbro UC at 21 LC at 46 dca. Lower contact at 22 dca.	Q159278	55.65	56.00	0.35	4.25	0.01	
			Q159279	56.00	57.00	1.00	2.93	0.03	
			Q159280	57.00	58.00	1.00	4.15	0.04	
			Q159281	58.00	59.00	1.00	2.98	0.04	
			Q159282	59.00	60.00	1.00	1.69	0.12	
			Q159283	60.00	61.00	1.00	5.27	0.03	
			Q159285	61.00	62.00	1.00	3.9	0.14	
			Q159286	62.00	63.00	1.00	4.3	0.09	
			Q159287	63.00	64.00	1.00	5.78	0.07	
			Q159288	64.00	65.00	1.00	2.66	0.18	
			Q159289	65.00	66.00	1.00	7.11	0.14	
			Q159291	66.00	67.00	1.00	2.67	0.12	
			Q159290	66.00	67.00	1.00	2.64	0.11	
			Q159292	67.00	68.00	1.00	0.72	0.28	
			Q159293	68.00	69.00	1.00	3.59	0.09	
			Q159294	69.00	70.00	1.00	1.52	0.14	
			Q159296	70.00	71.00	1.00	2.66	0.16	
			Q159297	71.00	72.00	1.00	3.92	0.15	
			Q159298	72.00	73.00	1.00	1.46	0.11	
			Q159299	73.00	74.00	1.00	3.75	0.17	
			Q159300	74.00	75.00	1.00	4.27	0.39	
			Q159301	75.00	76.00	1.00	3.09	0.35	
			Q159302	76.00	77.00	1.00	1.17	0.33	
			Q159303	77.00	78.00	1.00	0.4	0.66	
			Q159305	78.00	79.00	1.00	2.75	0.21	
			Q159306	79.00	80.00	1.00	0.67	0.17	
			Q159307	80.00	80.64	0.64	0.56	0.09	
80.64	82.20	**SYENSL Syenite Sill (unmineralized)** Light to medium green. Massive and fine to medium grained. Hard. Lower contact at 29 dca.	Q159308	80.64	81.50	0.86	0.06	0.03	
			Q159309	81.50	82.20	0.70	0.1	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
82.20	83.26	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 51 dca.	Q159310	82.20	83.26	1.06	0.54	0.2	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
83.26	- 108.54	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. Lower contact sharp at 53 dca.	Q159312	83.26	84.00	0.74	3.92	0.18	
			Q159313	84.00	85.00	1.00	3.95	0.26	
			Q159314	85.00	86.00	1.00	6.02	0.29	
			Q159316	86.00	87.00	1.00	5.4	0.25	
			Q159317	87.00	88.00	1.00	0.48	0.43	
			Q159318	88.00	89.00	1.00	4.48	0.31	
			Q159319	89.00	90.00	1.00	6.11	0.82	
			Q159320	90.00	91.00	1.00	4.7	0.31	
			Q159321	91.00	92.00	1.00	3.52	0.2	
			Q159322	92.00	93.00	1.00	2.33	0.16	
			Q159323	93.00	94.00	1.00	4.34	0.24	
			Q159325	94.00	95.00	1.00	4.09	0.32	
			Q159326	95.00	96.00	1.00	4.53	0.23	
			Q159327	96.00	97.00	1.00	4.69	0.41	
			Q159328	97.00	98.00	1.00	3.09	0.27	
			Q159329	98.00	99.00	1.00	4.68	0.22	
			Q159330	99.00	100.00	1.00	3.58	0.45	
			Q159331	99.00	100.00	1.00	3.01	0.47	
			Q159332	100.00	101.00	1.00	5.05	0.43	
			Q159333	101.00	102.00	1.00	6.68	0.35	
			Q159334	102.00	103.00	1.00	3.46	0.41	
			Q159336	103.00	104.00	1.00	5.57	0.32	
			Q159337	104.00	105.00	1.00	5.54	0.45	
			Q159338	105.00	106.00	1.00	2.32	0.36	
			Q159339	106.00	107.00	1.00	6.2	0.42	
			Q159340	107.00	108.00	1.00	7.01	0.38	
			Q159341	108.00	108.54	0.54	9.95	0.51	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
108.54	111.18	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact at 65 dca.	Q159342	108.54	109.00	0.46	0.18	0.33	
			Q159343	109.00	110.00	1.00	0.76	0.41	
			Q159345	110.00	111.18	1.18	0.47	0.32	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
111.18	138.14	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 119.90 to 120.00 Strongly fractured/faulted at 59 dca. 120.70 to 120.75 Strongly fractured /faulted at 27 dca. 122.60 to 123.23 Chlorite biotite alteration at 50 to 39 dca. 124.00 to 125.70 Fault zone broken and blocky at 63 dca. Lower contact sharp at 56 dca.	Q159346	111.18	112.00	0.82	4.19	0.33	
			Q159347	112.00	113.00	1.00	5.47	0.51	
			Q159348	113.00	114.00	1.00	4.8	0.46	
			Q159349	114.00	115.00	1.00	2.26	0.42	
			Q159350	115.00	116.00	1.00	6.46	0.33	
			Q159351	115.00	116.00	1.00	6.94	0.4	
			Q159352	116.00	117.00	1.00	6.44	0.37	
			Q159353	117.00	118.00	1.00	5.96	0.35	
			Q159354	118.00	119.00	1.00	5.07	0.39	
			Q159356	119.00	120.00	1.00	3.89	0.14	
			Q159357	120.00	121.00	1.00	1.93	0.14	
			Q159358	121.00	122.00	1.00	3.19	0.28	
			Q159359	122.00	123.00	1.00	2.86	0.24	
			Q159360	123.00	124.00	1.00	2.77	0.08	
			Q159361	124.00	125.00	1.00	5.47	0.26	
			Q159362	125.00	126.00	1.00	5.58	0.27	
			Q159363	126.00	127.00	1.00	6.93	0.48	
			Q159365	127.00	128.00	1.00	5.41	0.32	
			Q159366	128.00	129.00	1.00	4.13	0.35	
			Q159367	129.00	130.00	1.00	2.79	0.4	
			Q159368	130.00	131.00	1.00	3.29	0.32	
			Q159369	131.00	132.00	1.00	8.13	0.18	
			Q159370	132.00	133.00	1.00	3.27	0.13	
			Q159371	132.00	133.00	1.00	3.27	0.14	
			Q159372	133.00	134.00	1.00	2.44	0.04	
			Q159373	134.00	135.00	1.00	2.78	0.24	
			Q159374	135.00	136.00	1.00	1.1	0.54	
			Q159376	136.00	137.00	1.00	3.22	0.36	
			Q159377	137.00	138.14	1.14	5.02	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
138.14	139.11	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact sharp at 59 dca.	Q159378	138.14	139.11	0.97	0.47	0.66	
139.11	145.66	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 140.21 to 140.24 Dyke at 65 dca. 141.83 to 142.15 Syenite sharp contacts at 65 and 55 dca. Lower contact scalloped at 77 dca.	Q159379	139.11	140.00	0.89	7.93	0.43	
			Q159380	140.00	141.00	1.00	6	0.28	
			Q159381	141.00	141.83	0.83	4.72	0.15	
			Q159382	141.83	142.15	0.32	0.37	0.08	
			Q159383	142.15	143.00	0.85	8.34	0.28	
			Q159385	143.00	144.00	1.00	4.59	0.68	
			Q159386	144.00	145.00	1.00	5.29	0.45	
			Q159387	145.00	145.66	0.66	3.68	0.2	
145.66	147.53	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact irregular at 75 dca.	Q159388	145.66	146.00	0.34	0.44	0.07	
			Q159389	146.00	147.00	1.00	0.4	0.21	
			Q159391	147.00	147.53	0.53	0.27	0.2	
			Q159390	147.00	147.53	0.53	0.23	0.2	
147.53	149.42	**FP Feldspar Porphyry** Dark green/grey to bluish tinge. 1-3mm quartz eye phenocrysts in fine grained matrix. Lower contact irregular at 75 dca.	Q159392	147.53	148.50	0.97	0.09	0.3	
			Q159393	148.50	149.42	0.92	0.08	0.36	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
149.42	153.35	**SYENOP Syenite with Graphitic Overprinting** Light grey with orange tinge of orthoclase. Massive and very hard. Lower contact sharp at 39 dca.	Q159394	149.42	150.00	0.58	0.42	0.2	
			Q159396	150.00	151.00	1.00	0.11	0.17	
			Q159397	151.00	152.00	1.00	0.08	0.21	
			Q159398	152.00	153.00	1.00	0.12	0.18	
			Q159399	153.00	153.35	0.35	0.13	0.16	
153.35	163.05	**GRPBX Graphitic Breccia** Dark grey to black with orange tinge of orthoclase in syenite fragments. Typical graphite breccia unit. With 1 to 10cm angular breccia fragments in graphite matrix. All fragments and original rock components are moderately graphitically overprinted. 157.47-157.66 chlorite and biotite alteration with a weak to moderate fabric at 54dca. 157.66-163.05 larger syenite sections up to ~1m wide with brecciated sections throughout. Lower contact sharp at 48dca. 156.57 to 156.89 Syenite at 50 UC and 65 LC.	Q159400	153.35	154.00	0.65	7.28	0.36	
			Q159401	154.00	155.00	1.00	3.49	0.37	
			Q159402	155.00	156.00	1.00	4.13	0.19	
			Q159403	156.00	156.57	0.57	4.39	0.52	
			Q159405	156.57	156.89	0.32	0.55	0.08	
			Q159406	156.89	158.00	1.11	3.8	0.26	
			Q159407	158.00	159.00	1.00	1.99	0.36	
			Q159408	159.00	160.00	1.00	1.69	0.22	
			Q159409	160.00	160.65	0.65	6.04	0.32	
			Q159411	160.65	161.40	0.75	0.22	0.07	
			Q159410	160.65	161.40	0.75	0.23	0.07	
			Q159412	161.40	162.07	0.67	0.24	0.06	
			Q159413	162.07	163.05	0.98	3.48	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
163.05	174.30	**SYEN Syenite** Grey to pink, medium grained hard rock. Due to a higher quartz content this unit may actually be a quartz diorite? There is minor chlorite along fractures but no graphite and the unit is not conductive. Some areas are more pink with higher orthoclase content. 169.00-169.40 moderate to strong fracturing, no sign of fault gouge. 172.00-174.00 there appears to be fragments of more biotite and chlorite rich rock in this area giving it a pseudo-breccia look. There is no graphite associated with these fragments. Lower contact sharp at 67dca. Contact is with a small brecciated zone.	Q159414	163.05	164.00	0.95	0.19	0.09	
			Q159416	164.00	165.00	1.00	0.15	0.1	
			Q159417	165.00	166.00	1.00	0.22	0.09	
			Q159418	166.00	167.00	1.00	0.1	0.05	
			Q159419	167.00	168.00	1.00	0.1	0.08	
			Q159420	168.00	169.00	1.00	0.13	0.05	
			Q159421	169.00	170.00	1.00	0.14	0.11	
			Q159422	170.00	171.00	1.00	0.25	0.06	
			Q159423	171.00	172.00	1.00	0.16	0.18	
			Q159425	172.00	173.00	1.00	0.18	0.16	
			Q159426	173.00	174.30	1.30	0.23	0.09	
174.30	182.04	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained hard rock with small localized sections of graphite rich breccia 30-70cm in width. Mild graphite in thin fractures throughout the unit. Brecciated units are typical with sub-angular to sub-rounded fragments which are mild to moderately overprinted with graphite. The matrix is strongly graphitic. 175.08-175.10 quartz carbonate vein at 57dca. Lower contact irregular at ~35dca.	Q159427	174.30	175.00	0.70	1.27	0.26	
			Q159428	175.00	176.00	1.00	0.18	0.11	
			Q159429	176.00	177.00	1.00	0.96	0.25	
			Q159431	177.00	178.00	1.00	2.26	0.24	
			Q159430	177.00	178.00	1.00	2.14	0.24	
			Q159432	178.00	179.00	1.00	2.32	0.2	
			Q159433	179.00	180.00	1.00	0.66	0.12	
			Q159434	180.00	181.00	1.00	0.23	0.07	
			Q159436	181.00	182.04	1.04	0.21	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
182.04	205.07	**GRPBX Graphitic Breccia** Grey to pink sub-angular to sub-rounded fragments with a graphite rich matrix and fracture filling. There are some fragments that are more chlorite and biotite altered these fragments are also weakly foliated but due to rotation there is no measurable orientation. Fragments generally range in size from 0.2-30cm with some up to 50cm. There are trace blebs of pyrite associated with the matrix and along some fractures. 183.64-184.55 small syenite unit with moderate graphite fracture filling and overprinting. 198.75-199.09 Dark grey, fine grained moderately hard intermediate dyke with some chlorite alteration. Lower contact sharp at 115dca.	Q159437	182.04	183.00	0.96	5.37	0.33	
			Q159438	183.00	183.64	0.64	2.48	0.16	
			Q159439	183.64	184.55	0.91	0.33	0.08	
			Q159440	184.55	185.00	0.45	1.01	0.22	
			Q159441	185.00	186.00	1.00	3.03	0.27	
			Q159442	186.00	187.00	1.00	1.18	0.31	
			Q159443	187.00	188.00	1.00	4.24	0.41	
			Q159445	188.00	189.00	1.00	2.62	0.18	
			Q159446	189.00	190.00	1.00	2.38	0.26	
			Q159447	190.00	191.00	1.00	3.28	0.28	
			Q159448	191.00	192.00	1.00	4.55	0.3	
			Q159449	192.00	193.00	1.00	4.55	0.25	
			Q159451	193.00	194.00	1.00	3.79	0.1	
			Q159450	193.00	194.00	1.00	3.45	0.13	
			Q159452	194.00	195.00	1.00	3.69	0.18	
			Q159453	195.00	196.00	1.00	2.21	0.26	
			Q159454	196.00	197.00	1.00	2.59	0.11	
			Q159456	197.00	198.00	1.00	1.54	0.1	
			Q159457	198.00	199.00	1.00	1.05	0.19	
			Q159458	199.00	200.00	1.00	3.35	0.3	
			Q159459	200.00	201.00	1.00	1.3	0.32	
			Q159460	201.00	202.00	1.00	0.55	0.21	
			Q159461	202.00	203.00	1.00	1.75	0.37	
			Q159462	203.00	204.00	1.00	2.58	0.43	
			Q159463	204.00	205.07	1.07	5.15	0.28	
205.07	206.90	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained hard rock with moderate graphite fracture filling. Lower contact sharp at 55dca.	Q159465	205.07	206.00	0.93	0.31	0.11	
			Q159466	206.00	206.90	0.90	0.64	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
206.90	220.04	**GRPBX Graphitic Breccia** Grey to pink fragments, mostly sub-angular with ~10% sub-rounded in a graphite rich matrix. Some areas locally have less matrix and more of a fracture filling appearance. Fragments range in size from 0.5-20cm. 207.65-208.10 this area is almost pure graphite 90% with 10% angular to sub-angular fragments 2-10cm in size. 210.00-211.00 fault zone with extreme fracturing and a 3cm wide section of fault gouge at 210.76cm and 52dca. 211.00-213.00 moderate to strong fracturing, associated with but not as strongly fractured as the above fault zone. Lower contact sharp at 25dca.	Q159467	206.90	208.00	1.10	3.26	0.29	
			Q159468	208.00	209.00	1.00	2.11	0.38	
			Q159469	209.00	210.00	1.00	0.5	0.2	
			Q159471	210.00	211.00	1.00	1.24	0.12	
			Q159470	210.00	211.00	1.00	1.27	0.11	
			Q159472	211.00	212.00	1.00	1.33	0.28	
			Q159473	212.00	213.00	1.00	1.09	0.3	
			Q159474	213.00	214.00	1.00	1.01	0.33	
			Q159476	214.00	215.00	1.00	0.76	0.37	
			Q159477	215.00	216.00	1.00	1.13	0.42	
			Q159478	216.00	217.00	1.00	2.25	0.25	
			Q159479	217.00	218.00	1.00	1.61	0.25	
			Q159480	218.00	219.00	1.00	6.89	0.25	
			Q159481	219.00	220.04	1.04	3.31	0.24	
220.04	222.55	**GRPBX Graphitic Breccia** Dark grey with small mostly <1cm white fragments. The fragments become larger near the lower contact although the lower contact was chosen at the edge of a larger fragment and does not represent any formal coarsening of fragments. This unit does look similar to an ash tuff. Lower contact irregular and sharp.	Q159482	220.04	221.00	0.96	8.82	0.3	
			Q159483	221.00	222.00	1.00	9.5	0.3	
			Q159485	222.00	222.55	0.55	9.82	0.33	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
222.55	228.92	**GRPBX Graphitic Breccia** Grey pink fragments in a graphite rich matrix. Fragments are sub-angular to sub-rounded and are mostly 0.5-20cm in size with some larger 30-50cm fragments. There is some fracture filling in some of the larger fragments and most fragments are weakly to moderately overprinted. 227.71-228.06 grey feldspar porphyry with coarse grained gabbro like margins. Lower contact sharp at 90dca.	Q159486	222.55	223.00	0.45	1.34	0.28	
			Q159487	223.00	224.00	1.00	7.69	0.27	
			Q159488	224.00	225.00	1.00	5.39	0.31	
			Q159489	225.00	226.00	1.00	3.72	0.19	
			Q159491	226.00	227.00	1.00	3.98	0.3	
			Q159490	226.00	227.00	1.00	4.06	0.3	
			Q159492	227.00	228.00	1.00	3.75	0.22	
			Q159493	228.00	228.92	0.92	2.89	0.16	
228.92	232.93	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, fine to medium grained hard rock with some coarser grained phases. There is no graphite associated with this unit.	Q159494	228.92	230.00	1.08	0.02	0.05	
			Q159496	230.00	231.00	1.00	0.04	0.09	
			Q159497	231.00	232.00	1.00	0.02	0.02	
			Q159498	232.00	232.93	0.93	0.17	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
232.93	261.86	**GRPBX Graphitic Breccia** Grey pink fragments in a graphite rich matrix. Fragments are mostly sub-rounded with some sub-angular and are 0.5-20cm in size with some larger 30-50cm fragments. There is some fracture filling in some of the larger fragments and most fragments are weakly to moderately overprinted. 237.30 coarse biotite crystals. 258.40-259.00 fragments have graphite filling along foliation plains and one fragment exhibits a fold. 259.45-260.27 zone of overprinted syenite with moderate conductivity. Lower contact is irregular and it seems that the breccia continues slightly farther but there is no graphite associated with the last 7cm.							
			Q159499	232.93	234.00	1.07	2	0.27	
			Q159500	234.00	235.00	1.00	2.11	0.25	
			Q159501	235.00	236.00	1.00	0.87	0.23	
			Q159502	236.00	237.00	1.00	1.27	0.48	
			Q159503	237.00	238.00	1.00	2.06	1.1	
			Q159505	238.00	239.00	1.00	4.67	0.22	
			Q159506	239.00	240.00	1.00	4.35	0.29	
			Q159507	240.00	241.00	1.00	5.59	0.35	
			Q159508	241.00	242.00	1.00	4.94	0.26	
			Q159509	242.00	243.00	1.00	4.35	0.23	
			Q159510	243.00	244.00	1.00	4.89	0.32	
			Q159511	243.00	244.00	1.00	4.98	0.34	
			Q159512	244.00	245.00	1.00	2.07	0.1	
			Q159513	245.00	246.00	1.00	3.64	0.25	
			Q159514	246.00	247.00	1.00	5.52	0.23	
			Q159516	247.00	248.00	1.00	4.53	0.21	
			Q159517	248.00	249.00	1.00	3.07	0.41	
			Q159518	249.00	250.00	1.00	6.13	0.36	
			Q159519	250.00	251.00	1.00	5.67	0.31	
			Q159520	251.00	252.00	1.00	3.87	0.24	
			Q159521	252.00	253.00	1.00	4.62	0.33	
			Q159522	253.00	254.00	1.00	4.27	0.44	
			Q159523	254.00	255.00	1.00	3.05	0.2	
			Q159525	255.00	256.00	1.00	6.03	0.24	
			Q159526	256.00	257.00	1.00	3.79	0.24	
			Q159527	257.00	258.00	1.00	3.13	0.28	
			Q159528	258.00	259.37	1.37	3.85	0.29	
			Q159529	259.37	260.27	0.90	0.08	0.08	
			Q159530	260.27	261.00	0.73	4.96	0.18	
			Q159531	260.27	261.00	0.73	5.26	0.2	
			Q159532	261.00	261.86	0.86	3.59	0.26	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
261.86 -	264.15	**SYENOP Syenite with Graphitic Overprinting** Grey to pink fine to medium grained hard rock. There seems to be more pink (orthoclase) near fractures. This unit is weakly conductive. 263.00-263.10 fault with gouge. 263.62-264.15 feldspar porphyry/porphyritic intermediate dike with weak overprinting. Lower contact irregular at 99dca.	Q159533	261.86	263.00	1.14	0.22	0.88	
			Q159534	263.00	264.15	1.15	0.31	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
264.15	312.69	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, fine to medium grained hard rock with some coarser grained phases. There is no graphite associated with this unit. There is trace localized blebs of pyrrhotite throughout the unit. Lower contact slightly irregular at 88dca.	Q159536	264.15	265.50	1.35	0.04	0.01	
			Q159537	265.50	267.00	1.50	0.01	0.07	
			Q159538	267.00	268.50	1.50	0.01	0.08	
			Q159539	268.50	270.00	1.50	0.01	0.02	
			Q159540	270.00	271.50	1.50	0.01	0.05	
			Q159541	271.50	273.00	1.50	0.08	0.05	
			Q159542	273.00	274.50	1.50	0.02	0.06	
			Q159543	274.50	276.00	1.50	0.01	0.02	
			Q159545	276.00	277.50	1.50	0.01	0.02	
			Q159546	277.50	279.00	1.50	0.01	0.07	
			Q159547	279.00	280.50	1.50	0.01	0.05	
			Q159548	280.50	282.00	1.50	0.01	0.02	
			Q159549	282.00	283.50	1.50	0.01	0.02	
			Q159550	283.50	285.00	1.50	0.01	0.02	
			Q159551	283.50	285.00	1.50	0.01	0.02	
			Q159552	285.00	286.50	1.50	0.02	0.06	
			Q159553	286.50	288.00	1.50	0.01	0.02	
			Q159554	288.00	289.50	1.50	0.01	0.04	
			Q159556	289.50	291.00	1.50	0.01	0.03	2.74
			Q159557	291.00	292.50	1.50	0.03	0.02	2.71
			Q159558	292.50	294.00	1.50	0.01	0.13	2.74
			Q159559	294.00	295.50	1.50	0.01	0.01	2.74
			Q159560	295.50	297.00	1.50	0.02	0.02	2.73
			Q159561	297.00	298.50	1.50	0.01	0.06	
			Q159562	298.50	300.00	1.50	0.03	0.01	
			Q159563	300.00	301.50	1.50	0.01	0.01	
			Q159565	301.50	303.00	1.50	0.01	0.11	
			Q159566	303.00	304.50	1.50	0.01	0.01	
			Q159567	304.50	306.00	1.50	0.03	0.01	
			Q159568	306.00	307.50	1.50	0.03	0.04	
			Q159569	307.50	309.00	1.50	0.01	0.02	
			Q159570	309.00	310.50	1.50	0.01	0.03	
			Q159571	309.00	310.50	1.50	0.01	0.03	
			Q159572	310.50	312.00	1.50	0.01	0.03	
			Q159573	312.00	312.69	0.69	0.03	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
312.69	318.45	**GRPBX Graphitic Breccia** Grey to pink fragments in a graphite rich matrix. 312.69-314.50 In this area the breccia is composed of small fragments <1cm and a more dominant matrix, similar to the above unit that looks similar to a tuff. 314.50-318.45 In this area the breccia is more composed of sub-angular to sub-rounded fragments. These fragments are mildly to moderately overprinted. Lower contact sharp at 116dca.	Q159574	312.69	314.00	1.31	9.03	0.17	
			Q159576	314.00	315.00	1.00	6.06	0.28	
			Q159577	315.00	316.00	1.00	4.16	0.25	
			Q159578	316.00	317.00	1.00	3.94	0.34	
			Q159579	317.00	318.00	1.00	3.43	0.34	
			Q159580	318.00	318.45	0.45	2.86	0.42	
318.45	322.53	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, fine to medium grained hard rock with some coarser grained phases. There is no graphite associated with this unit. Lower contact sharp at 93dca.	Q159581	318.45	319.00	0.55	0.47	0.36	
			Q159582	319.00	320.00	1.00	0.01	0.13	
			Q159583	320.00	321.00	1.00	0.02	0.15	
			Q159585	321.00	322.00	1.00	0.03	0.07	
			Q159586	322.00	322.53	0.53	0.05	0.05	
322.53	326.75	**SYENOP Syenite with Graphitic Overprinting** Grey to pink medium grained with mild graphite fracture filling. This unit is weakly to moderately conductive. 323.09-323.56 fine grained felsic dyke with pink feldspar phenocrysts 0.5-1cm in size. UC @ 62dca/LC @ 52dca. 325.50-325.76 fine grained felsic dyke with pink feldspar phenocrysts 0.5-1cm in size. UC @ 69dca/LC @ 60dca. Lower contact sharp at 119dca.	Q159587	322.53	323.00	0.47	0.78	0.24	
			Q159588	323.00	324.00	1.00	0.08	0.41	
			Q159589	324.00	325.00	1.00	0.02	0.91	
			Q159591	325.00	326.00	1.00	0.37	0.63	
			Q159590	325.00	326.00	1.00	0.31	0.5	
			Q159592	326.00	326.75	0.75	0.32	0.18	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
326.75	328.21	**FPOP Feldspar Porphyry with Graphitic Overprinting** Grey fine grained felsic dyke with feldspar phenocrysts 0.5-1cm in size. Localized brecciated areas with sub-rounded syenite fragments. Some green phenocrysts with magnetic halos. This unit is weakly conductive. Lower contact at 119dca.	Q159593	326.75	327.50	0.75	0.59	0.42	
			Q159594	327.50	328.21	0.71	0.05	0.38	
328.21	330.08	**SYENSL Syenite Sill (unmineralized)** Grey to grey green medium grained hard. 329.65-329.70 localized graphite breccia. Lower contact at 160dca.	Q159596	328.21	329.00	0.79	0.02	0.04	
			Q159597	329.00	330.08	1.08	0.63	0.04	
330.08	335.69	**GRPBX Graphitic Breccia** Mostly grey moderately to strongly overprinted with a few grey to pink weakly overprinted fragments surrounded by a strongly graphitic matrix that looks metallic in areas. Fragments are sub-angular to sub-rounded and range in size from 0.5-7cm in size. There is quite a bit of feldspar porphyry some of which looks to be intruding and some of which seems to be overprinted with graphite. Unit is possibly 55% breccia/45% feldspar porphyry some of which is overprinted. The porphyry sections are grey with pale pink phenocrysts up to 1cm in size and some green phenocrysts <1cm with a magnetic halo. Lower contact sharp at 63dca.	Q159598	330.08	331.00	0.92	1.32	0.35	
			Q159599	331.00	332.00	1.00	0.02	0.24	
			Q159600	332.00	333.00	1.00	3.7	0.25	
			Q159601	333.00	334.00	1.00	7.42	0.14	
			Q159602	334.00	335.00	1.00	2.91	0.25	
			Q159603	335.00	335.69	0.69	3.77	0.17	
335.69	339.18	**SYENSL Syenite Sill (unmineralized)** Grey to pale pink medium grained and hard. The grain size is quite uniform. There are a few chlorite filled fractures and at 338.29 there is a 2-3cm wide coarse grained white felsic dyke. Lower contact sharp at 146dca.	Q159605	335.69	337.00	1.31	0.02	0.02	
			Q159606	337.00	338.00	1.00	0.02	0.02	
			Q159607	338.00	339.18	1.18	0.06	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
339.18	342.28	**GRPBX Graphitic Breccia** Grey moderately to strongly overprinted fragments surrounded by a graphitic matrix. Fragments are sub-rounded and range in size from 0.5-7cm in size. There is quite a bit of feldspar porphyry some of which looks to be intruding and some of which seems to be overprinted with graphite. Unit is possibly 55% breccia/45% feldspar porphyry some of which is overprinted. The porphyry sections are grey with pale pink phenocrysts up to 1cm in size and some green phenocrysts <1cm with a magnetic halo. Lower contact sharp at 53dca.	Q159608	339.18	340.00	0.82	1.9	0.3	
			Q159609	340.00	341.00	1.00	1.29	0.47	
			Q159611	341.00	342.28	1.28	1.44	0.45	
			Q159610	341.00	342.28	1.28	1.63	0.42	
342.28	344.84	**SYEN Syenite** Grey to pink, fine to medium grained and hard. The unit has a moderate amount of black chlorite filled fractures that could be mistaken for graphite but the unit has little to no conductivity. Lower contact sharp at 76dca.	Q159612	342.28	343.00	0.72	0.38	0.17	
			Q159613	343.00	344.00	1.00	0.37	0.16	
			Q159614	344.00	344.84	0.84	0.58	0.13	
344.84	346.25	**GRPBX Graphitic Breccia** Grey to pink and grey green fragments in a graphite rich matrix which is sometimes metallic looking. Fragments are weakly to strongly overprinted with the majority being moderately overprinted, are sub-rounded to angular and are 0.2-10cm in size. Lower contact irregular at ~63dca.	Q159616	344.84	345.50	0.66	5.43	0.28	
			Q159617	345.50	346.25	0.75	6.4	0.3	
346.25	355.02	**SYENSL Syenite Sill (unmineralized)** Grey to pale pink medium grained and hard. The grain size is quite uniform. This unit is probably more of a diorite or syenite but I have called it a gabbro to keep consistent with previous descriptions. Between 350.00 and 351.00 the unit becomes more grey green and less pink and resembles a more typical sill unit. Lower contact irregular and sharp at 102dca. Lower contact sharp at 146dca.	Q159618	346.25	347.00	0.75	0.21	0.09	
			Q159619	347.00	348.00	1.00	0.01	0.02	
			Q159620	348.00	349.50	1.50	0.02	0.02	
			Q159621	349.50	351.00	1.50	0.02	0.03	
			Q159622	351.00	352.50	1.50	0.02	0.03	
			Q159623	352.50	354.00	1.50	0.03	0.01	
			Q159625	354.00	355.02	1.02	0.13	0.03	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
355.02	378.25	**GRPBX Graphitic Breccia** Grey to pink, sub-rounded to sub-angular fragments with weak to no overprinting ranging in size from 0.5-20cm in size. There are localized areas of moderately to strongly overprinted syenite/granodiorite. 25% of this breccia is overprinted syenite. The matrix in this unit is very rich in graphite and is very metallic looking. Trace pyrite associated with fractures. 357.50-358.50 grey green fine to medium grained syenite dyke with grey to white phases with medium grained deep green chlorite crystals. Lower contact sharp at 59dca.	Q159626	355.02	356.00	0.98	6.69	0.2	
			Q159627	356.00	357.00	1.00	0.66	0.07	
			Q159628	357.00	357.50	0.50	5.66	0.16	
			Q159629	357.50	358.50	1.00	0.01	0.05	
			Q159630	358.50	359.00	0.50	0.55	0.04	
			Q159631	358.50	359.00	0.50	0.6	0.05	
			Q159632	359.00	360.00	1.00	4.86	0.2	
			Q159633	360.00	361.00	1.00	3.67	0.35	
			Q159634	361.00	362.00	1.00	3.75	0.32	
			Q159636	362.00	363.00	1.00	2.59	0.79	
			Q159637	363.00	364.00	1.00	0.23	0.18	
			Q159638	364.00	365.00	1.00	4.94	0.25	
			Q159639	365.00	366.00	1.00	5.38	0.26	
			Q159640	366.00	367.00	1.00	3.41	0.24	
			Q159641	367.00	368.00	1.00	7.64	0.32	
			Q159642	368.00	369.00	1.00	7.24	0.33	
			Q159643	369.00	370.00	1.00	9.06	0.31	
			Q159645	370.00	371.00	1.00	4.32	0.2	
			Q159646	371.00	372.00	1.00	8.39	0.31	
			Q159647	372.00	373.00	1.00	3.1	0.24	
			Q159648	373.00	374.00	1.00	6.85	0.39	
			Q159649	374.00	375.00	1.00	4.11	0.3	
			Q159650	375.00	376.00	1.00	2.7	0.5	
			Q159651	375.00	376.00	1.00	2.89	0.55	
			Q159652	376.00	377.00	1.00	2.32	0.32	
			Q159653	377.00	378.25	1.25	6.6	0.39	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
378.25	379.90	**GRDROP Granodiorite with Graphitic Overprinting** Pink with white and black/dark grey, medium to coarse grained and moderate chlorite fracture filling, this unit is weakly conductive. Lower contact sharp at 99dca.	Q159654	378.25	379.00	0.75	0.16	0.07	
			Q159656	379.00	379.90	0.90	0.8	0.13	
379.90	386.07	**GRPBX Graphitic Breccia** Grey to light grey, moderately to strongly overprinted, sub-rounded to sub-angular fragments ranging in size from 0.5-30cm in a metallic looking graphite rich matrix. There are a small number of larger fragments up to 50cm in size that are also moderately overprinted. Trace pyrite associated with fracturing. Lower contact sharp at 66dca.	Q159657	379.90	381.00	1.10	8.33	0.32	
			Q159658	381.00	382.00	1.00	6.71	0.38	
			Q159659	382.00	383.00	1.00	6.12	0.35	
			Q159660	383.00	384.00	1.00	3.32	0.32	
			Q159661	384.00	385.00	1.00	8.83	0.31	
			Q159662	385.00	386.07	1.07	5.59	0.27	
386.07	397.79	**SYENSL Syenite Sill (unmineralized)** Grey green, medium grained with grey fine grained and white coarser grained phases. Some mild chlorite fracture filling along a few fractures. Lower contact sharp at 110dca.	Q159663	386.07	387.00	0.93	0.05	0.07	
			Q159665	387.00	388.50	1.50	0.02	0.04	
			Q159666	388.50	390.00	1.50	0.02	0.07	
			Q159667	390.00	391.50	1.50	0.08	0.06	
			Q159668	391.50	393.00	1.50	0.04	0.11	
			Q159669	393.00	394.50	1.50	0.03	0.08	
			Q159671	394.50	396.00	1.50	0.04	0.04	
			Q159670	394.50	396.00	1.50	0.05	0.03	
			Q159672	396.00	397.00	1.00	0.24	0.25	
			Q159673	397.00	397.79	0.79	0.08	0.23	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
397.79	407.62	**GRPBX Graphitic Breccia** Grey sub-angular to sub-rounded, moderately to strongly overprinted fragments ranging in size from 0.5-20cm in size in a graphite rich matrix. Syenite is more dominant in some areas of this unit, the syenite has a moderate to strong overprinting. The unit is 75% breccia 25% overprinted syenite. 407.40-407.62 chlorite rich rubble, fault. Lower contact at edge of rubble ~78dca.	Q159674	397.79	399.00	1.21	3.6	0.17	
			Q159676	399.00	400.00	1.00	4.33	0.18	
			Q159677	400.00	401.00	1.00	6.29	0.27	
			Q159678	401.00	402.00	1.00	8.94	0.28	
			Q159679	402.00	403.00	1.00	4.98	0.25	
			Q159680	403.00	404.00	1.00	4.12	0.28	
			Q159681	404.00	405.00	1.00	5.23	0.32	
			Q159682	405.00	406.00	1.00	4.31	0.13	
			Q159683	406.00	407.00	1.00	3.51	0.17	
			Q159685	407.00	407.62	0.62	6.43	0.31	
407.62	409.75	**SYEN Syenite** Grey to pink medium grained hard rock. This unit has a moderate amount of fractures filled with chlorite but no visible associated graphite. The unit is very weakly conductive locally. Lower contact sharp at 116dca.	Q159686	407.62	409.00	1.38	0.31	0.12	
			Q159687	409.00	409.75	0.75	0.04	0.47	
409.75	417.52	**SYENSL Syenite Sill (unmineralized)** Grey green medium grained hard rock with grey finer grained phases. This unit is similar to other late sill units but is also very similar to the syenite units it is between? This could be a syenite and the more obvious syenites might be some sort of more orthoclase rich chill margins? There are is moderate to strong chlorite fracture filling. 416.67-417.39 strongly fractured chlorite rich faulting. Lower contact at 109dca.	Q159688	409.75	411.00	1.25	0.06	0.05	
			Q159689	411.00	412.00	1.00	0.03	0.02	
			Q159691	412.00	413.00	1.00	0.07	0.04	
			Q159690	412.00	413.00	1.00	0.03	0.03	
			Q159692	413.00	414.00	1.00	0.04	0.04	
			Q159693	414.00	415.00	1.00	0.04	0.06	
			Q159694	415.00	416.00	1.00	0.04	0.05	
			Q159696	416.00	417.00	1.00	0.05	0.07	
			Q159697	417.00	417.52	0.52	0.05	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
417.52	421.72	**SYEN Syenite** Grey to pink medium grained hard rock. This unit has a moderate amount of fractures filled with chlorite but no visible associated graphite. The unit is very weakly conductive locally. 418.80-418.85 chlorite rich rubble, fault. 419.27-419.50 chlorite rich rubble, fault. Lower contact sharp at 82dca.	Q159698	417.52	418.00	0.48	0.04	0.02	
			Q159699	418.00	419.00	1.00	0.05	0.06	
			Q159700	419.00	420.00	1.00	0.17	0.14	
			Q159701	420.00	421.00	1.00	0.15	0.17	
			Q159702	421.00	421.72	0.72	0.21	0.24	
421.72	435.23	**GRPBX Graphitic Breccia** Grey sub-angular to sub-rounded, moderately to strongly overprinted fragments ranging in size from 0.5-20cm in size in a graphite rich matrix. Syenite is more dominant in some areas of this unit, the syenite has a moderate to strong overprinting. The unit is 75% breccia 25% overprinted syenite. Some of the syenite fragments near the lower contact are less overprinted than the rest of the unit. Lower contact sharp at 89dca.	Q159703	421.72	423.00	1.28	2.56	0.22	
			Q159705	423.00	424.00	1.00	6.12	0.22	
			Q159706	424.00	425.00	1.00	9.24	0.35	
			Q159707	425.00	426.00	1.00	6.96	0.38	
			Q159708	426.00	427.00	1.00	5.97	0.3	
			Q159709	427.00	428.00	1.00	3.88	0.33	
			Q159711	428.00	429.00	1.00	1.15	0.3	
			Q159710	428.00	429.00	1.00	1.82	0.31	
			Q159712	429.00	430.00	1.00	6.81	0.53	
			Q159713	430.00	431.00	1.00	7.73	0.46	
			Q159714	431.00	432.00	1.00	2.32	0.27	
			Q159716	432.00	433.00	1.00	1.86	0.15	
			Q159717	433.00	434.00	1.00	6.66	0.25	
			Q159718	434.00	435.23	1.23	2.03	0.11	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
435.23	441.64	**SYEN Syenite** Grey to pink medium grained hard rock. This unit has a moderate amount of fractures filled with chlorite but no visible associated graphite. The unit is very weakly conductive locally. Lower contact sharp at 28dca.	Q159719	435.23	436.00	0.77	0.44	0.14	
			Q159720	436.00	437.00	1.00	0.41	0.09	
			Q159721	437.00	438.00	1.00	0.12	0.26	
			Q159722	438.00	439.00	1.00	0.06	0.07	
			Q159723	439.00	440.00	1.00	0.28	0.06	
			Q159725	440.00	441.00	1.00	0.17	0.15	
			Q159726	441.00	441.64	0.64	0.22	0.21	
441.64	446.06	**GRPBX Graphitic Breccia** Grey to pink sub-angular to sub-rounded, weakly to strongly overprinted fragments ranging in size from 0.5-40cm in size in a graphite rich matrix. The matrix is metallic looking in areas. There is some graphite fracture filling in the larger fragments. Lower contact sharp at 140dca.	Q159727	441.64	442.00	0.36	4.97	0.08	
			Q159728	442.00	443.00	1.00	7.12	0.32	
			Q159729	443.00	444.00	1.00	3.85	0.24	
			Q159731	444.00	445.00	1.00	7.06	0.27	
			Q159730	444.00	445.00	1.00	6.73	0.3	
			Q159732	445.00	446.06	1.06	5.84	0.23	
446.06	451.12	**SYEN Syenite** Grey to pink fine to medium grained hard rock. I have separated the next section of rock into syenite and gabbro units but it is difficult to tell if maybe they are the same unit and the only difference is the amount of orthoclase and or chlorite alteration. Trace pyrite. 447.50-448.00 chlorite and fracturing, fault. Lower contact at 90dca. Could be gradational	Q159733	446.06	447.00	0.94	1.34	0.18	
			Q159734	447.00	448.00	1.00	1.04	0.24	
			Q159736	448.00	449.00	1.00	0.41	0.53	
			Q159737	449.00	450.00	1.00	0.02	0.36	
			Q159738	450.00	451.12	1.12	0.02	0.15	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
451.12	470.25	**SYENSL Syenite Sill (unmineralized)** Grey green medium grained hard rock. Again I am unsure if this is not just a more chlorite altered phase of the above syenite? Trace pyrite. Lower contact at 129dca.	Q159739	451.12	452.00	0.88	0.01	0.67	
			Q159740	452.00	453.00	1.00	0.01	0.06	
			Q159741	453.00	454.50	1.50	0.02	0.04	
			Q159742	454.50	456.00	1.50	0.01	0.06	
			Q159743	456.00	457.50	1.50	0.02	0.08	
			Q159745	457.50	459.00	1.50	0.01	0.18	
			Q159746	459.00	460.50	1.50	0.01	0.22	
			Q159747	460.50	462.00	1.50	0.02	0.14	
			Q159748	462.00	463.50	1.50	0.34	0.18	
			Q159749	463.50	465.00	1.50	0.03	0.45	
			Q159751	465.00	466.50	1.50	0.01	0.13	
			Q159750	465.00	466.50	1.50	0.03	0.14	
			Q159752	466.50	468.00	1.50	0.01	0.05	
			Q159753	468.00	469.50	1.50	0.02	0.19	
			Q159754	469.50	470.25	0.75	0.01	0.24	
470.25	483.05	**SYEN Syenite** Grey to pink medium to coarse grained hard rock. In some sections this rock has the same texture as the gabbro but with more orthoclase giving the rock a more pink hue. There is very little quartz so I have called it a syenite. There are also a few areas where the rock grades into a fine grained material and then back into a more coarse rock. Lower contact irregular at 155dca.	Q159756	470.25	471.00	0.75	0.03	0.12	
			Q159757	471.00	472.00	1.00	0.11	0.31	
			Q159758	472.00	473.00	1.00	0.11	0.22	
			Q159759	473.00	474.00	1.00	0.08	0.19	2.7
			Q159760	474.00	475.00	1.00	0.02	0.11	2.71
			Q159761	475.00	476.00	1.00	0.02	0.11	2.65
			Q159762	476.00	477.00	1.00	0.01	0.04	2.69
			Q159763	477.00	478.00	1.00	0.05	0.03	2.68
			Q159765	478.00	479.00	1.00	0.05	0.08	
			Q159766	479.00	480.00	1.00	0.05	0.06	
			Q159767	480.00	481.00	1.00	0.03	0.05	
			Q159768	481.00	482.00	1.00	0.09	0.1	
			Q159769	482.00	483.05	1.05	0.13	0.09	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
483.05	489.32	**GR Granite** Pink with black and some white medium grained and hard. This unit look more like a granite but could still be lacking in quartz? 483.05-483.76 there are some large dark fragments making this part of the unit a felsic breccia, there is also some graphite associated with this section. EOH 489.32m	Q159771	483.05	483.76	0.71	0.42	0.04	
			Q159770	483.05	483.76	0.71	0.39	0.04	
			Q159772	483.76	485.00	1.24	0.01	0.05	
			Q159773	485.00	486.00	1.00	0.04	0.05	
			Q159774	486.00	487.00	1.00	0.02	0.05	
			Q159776	487.00	488.00	1.00	0.01	0.05	
			Q159777	488.00	489.32	1.32	0.11	0.02	

zenyatta

Drillhole Log

Units **Metres**

Zenyatta Ventures Ltd.

Province/State	*Co-ordinate System*	*Grid/Property*	*Hole Type*	*Length*	*Date Started*
Ontario	UTM NAD83 Canada Zone 16	None	Metallurgy hole	447.00	30/10/2013

District	*UTM North*	*UTM East*	*Local Grid E*	*Local Grid N*	*Collar Survey Method*	*Date Completed*
Porcupine	5545742	682511			Hand-held GPS	06/11/2013

Project	*UTM Elevation*	*Azimuth Astro. (°)*	*Azimuth Grid (°)*	*Dip (°)*	*Drill Contractor*	*Date Logged*
Albany Graphite Project	124.00	45.00		-85.00	Chibougamau Diamond Drilling	06/11/2013

Area	*Claim No.*	*NTS Sheet*	*Supervised By*	*Logged By*	*Verified*
Pitopiko River	P4255105	42K10	Clayton Kennedy	Clayton Kennedy	☑

Zone/Prospect	*Assessment Rpt. No.*	*Core Storage*	*Plug Depth*	*Makes Water*	*Capped*	*Environmental Inspection*
Graphite Deposit		Hearst		☐	☑	☐

Core Size (1)	HQ	397.5	*Casing Pulled*	*Casing (1)*	49.50	Steel	*Plugged*	*Pulsed*	*Geophysics Contractor*	*Date Pulsed*
(2)			☐	*(2)*			☐	☐	Crone Geophysics Limited	

Purpose	*Results*	*Comments*
Third hole of three on the West Pipe to obtain material for metallurgical testing. Also testing western side of the pipe at depth.	This hole hit two breccia packages 49.50m to 232.52m (183.02m core length) and 358.87m to 435.98m (77.11m core length) . After drilling this hole there is enough material to send for metallurgical testing. The geology at depth in this hole is consistant with the geology in nearby holes. The assays from 49.50m to 437.00m averaged 2.12% Cg over 387.50m; within this intersection a higher grade graphite zone from 61.00m to 163.0m averaged 4.20% Cg over 102.00m.	Note: Graphitic Carbon assay detection limit is 0.02% and assay data below this limit (<0.02%) are recorded as 0.01%. Total Sulphur assay detection limit is 0.01% and assay data below this limit (<0.01%) are recorded as 0.005%.

Distance	*Grid Azimuth (°)*		*Astro. Azimuth (°)*		*Dip (°)*		*Use Test*	*Survey Method*	*Mag. Field (nT)*	*Comments*
	Original	*Final*	*Original*	*Final*	*Original*	*Final*				
60.00			51.1	42.1	-84.6	-84.6	☑	Reflex EZ	56419	
63.00			47.7	38.7	-84.2	-84.2	☑	Reflex EZ	56603	
66.00			47.2	38.2	-84.3	-84.3	☑	Reflex EZ	56665	
69.00			48.2	39.2	-84	-84	☑	Reflex EZ	56709	
72.00			50	41	-84	-84	☑	Reflex EZ	56736	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
75.00			47.5	38.5	-84.5	-84.5	☑	Reflex EZ	56778	
78.00			48.6	39.6	-84.5	-84.5	☑	Reflex EZ	56797	
81.00			49.2	40.2	-84.1	-84.1	☑	Reflex EZ	56762	
84.00			50.2	41.2	-84.1	-84.1	☑	Reflex EZ	56774	
87.00			48.7	39.7	-83.9	-83.9	☑	Reflex EZ	56765	
90.00			48.5	39.5	-84.4	-84.4	☑	Reflex EZ	56802	
93.00			47.6	38.6	-84.2	-84.2	☑	Reflex EZ	56788	
96.00			47	38	-84.2	-84.2	☑	Reflex EZ	56793	
99.00			51.5	42.5	-84.4	-84.4	☑	Reflex EZ	56801	
102.00			48	39	-84	-84	☑	Reflex EZ	56767	
105.00			48.5	39.5	-84.4	-84.4	☑	Reflex EZ	56792	
108.00			50.8	41.8	-84	-84	☑	Reflex EZ	55658	
111.00			47.1	38.1	-84.4	-84.4	☑	Reflex EZ	56799	
114.00			46.4	37.4	-83.9	-83.9	☑	Reflex EZ	56760	
117.00			46.5	37.5	-84.1	-84.1	☑	Reflex EZ	56769	
120.00			49.5	40.5	-84.1	-84.1	☑	Reflex EZ	56791	
123.00			47.5	38.5	-84.4	-84.4	☑	Reflex EZ	56694	
126.00			46.1	37.1	-84	-84	☑	Reflex EZ	56770	
129.00			48.3	39.3	-84	-84	☑	Reflex EZ	56756	
132.00			48.2	39.2	-84	-84	☑	Reflex EZ	56496	
135.00			47.8	38.8	-84	-84	☑	Reflex EZ	56657	
138.00			49.1	40.1	-84.6	-84.6	☑	Reflex EZ	56797	
141.00			47.8	38.8	-84.5	-84.5	☑	Reflex EZ	56805	
144.00			47.3	38.3	-84	-84	☑	Reflex EZ	56773	
147.00			53.9	44.9	-84.3	-84.3	☑	Reflex EZ	56792	
150.00			46.6	37.6	-84.4	-84.4	☑	Reflex EZ	56782	
153.00			48.4	39.4	-84	-84	☑	Reflex EZ	56748	
156.00			48.3	39.3	-84	-84	☑	Reflex EZ	56748	
159.00			47.4	38.4	-84.2	-84.2	☑	Reflex EZ	56778	
162.00			47.6	38.6	-84.4	-84.4	☑	Reflex EZ	56824	
165.00			49.8	40.8	-84.6	-84.6	☑	Reflex EZ	56835	
168.00			48	39	-84.5	-84.5	☑	Reflex EZ	56798	
171.00			51	42	-84.5	-84.5	☑	Reflex EZ	56840	
174.00			47.5	38.5	-84.2	-84.2	☑	Reflex EZ	56847	
177.00			49.9	40.9	-84.2	-84.2	☑	Reflex EZ	56830	
180.00			46.8	37.8	-84.4	-84.4	☑	Reflex EZ	56821	
183.00			47.2	38.2	-84	-84	☑	Reflex EZ	56670	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
186.00			50.2	41.2	-84.2	-84.2	☑	Reflex EZ	56812	
189.00			45.6	36.6	-84.4	-84.4	☑	Reflex EZ	56805	
192.00			47.4	38.4	-84.5	-84.5	☑	Reflex EZ	56842	
195.00			47.5	38.5	-84	-84	☑	Reflex EZ	56791	
198.00			50.6	41.6	-84.3	-84.3	☑	Reflex EZ	56851	
201.00			50.6	41.6	-84.5	-84.5	☑	Reflex EZ	56585	
207.00			51.3	42.3	-84.4	-84.4	☑	Reflex EZ	56835	
210.00			46.5	37.5	-84.1	-84.1	☑	Reflex EZ	56810	
213.00			50.7	41.7	-84.4	-84.4	☑	Reflex EZ	56773	
216.00			49.6	40.6	-84.1	-84.1	☑	Reflex EZ	56824	
219.00			47	38	-84.2	-84.2	☑	Reflex EZ	56806	
222.00			50.8	41.8	-84.3	-84.3	☑	Reflex EZ	56746	
225.00			47	38	-84.1	-84.1	☑	Reflex EZ	56832	
228.00			50.9	41.9	-84.2	-84.2	☑	Reflex EZ	56933	
231.00			47.4	38.4	-84.4	-84.4	☑	Reflex EZ	56893	
234.00			46.4	37.4	-84.1	-84.1	☑	Reflex EZ	56590	
237.00			50.9	41.9	-84.4	-84.4	☑	Reflex EZ	56838	
240.00			47.7	38.7	-84.2	-84.2	☑	Reflex EZ	56598	
243.00			51.6	42.6	-84.2	-84.2	☑	Reflex EZ	56690	
246.00			46.9	37.9	-84.2	-84.2	☑	Reflex EZ	56409	
249.00			47.6	38.6	-84	-84	☑	Reflex EZ	56516	
252.00			49.5	40.5	-84	-84	☑	Reflex EZ	56579	
255.00			49.9	40.9	-84.5	-84.5	☑	Reflex EZ	56394	
258.00			48.6	39.6	-84	-84	☑	Reflex EZ	56722	
261.00			50.1	41.1	-84.3	-84.3	☑	Reflex EZ	56531	
264.00			47.3	38.3	-84.1	-84.1	☑	Reflex EZ	56599	
267.00			50.8	41.8	-84	-84	☑	Reflex EZ	56447	
270.00			47.8	38.8	-84.1	-84.1	☑	Reflex EZ	56630	
273.00			52.3	43.3	-84.1	-84.1	☑	Reflex EZ	56524	
276.00			50.7	41.7	-84.5	-84.5	☑	Reflex EZ	56705	
279.00			51.8	42.8	-84.5	-84.5	☑	Reflex EZ	56735	
282.00			49.1	40.1	-84.4	-84.4	☑	Reflex EZ	56621	
285.00			48.7	39.7	-84.1	-84.1	☑	Reflex EZ	56373	
288.00			48.6	39.6	-84.2	-84.2	☑	Reflex EZ	56431	
291.00			49.5	40.5	-84.6	-84.6	☑	Reflex EZ	56501	
294.00			50.2	41.2	-84.5	-84.5	☑	Reflex EZ	56711	
300.00			50.9	41.9	-84.1	-84.1	☑	Reflex EZ	56845	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
303.00			54.1	45.1	-84.4	-84.4	☑	Reflex EZ	56733	
306.00			52	43	-84.1	-84.1	☑	Reflex EZ	56813	
309.00			52.6	43.6	-84.2	-84.2	☑	Reflex EZ	56872	
312.00			50.2	41.2	-84.5	-84.5	☑	Reflex EZ	56856	
315.00			50.6	41.6	-84.5	-84.5	☑	Reflex EZ	56663	
318.00			50.7	41.7	-84.5	-84.5	☑	Reflex EZ	56841	
321.00			49.4	40.4	-84.1	-84.1	☑	Reflex EZ	56721	
324.00			49.6	40.6	-83.9	-83.9	☑	Reflex EZ	56525	
327.00			47.4	38.4	-84.1	-84.1	☑	Reflex EZ	56832	
330.00			47.1	38.1	-84.3	-84.3	☑	Reflex EZ	56705	
333.00			47	38	-84.1	-84.1	☑	Reflex EZ	56706	
336.00			51.3	42.3	-84	-84	☑	Reflex EZ	56946	
339.00			48.8	39.8	-84.4	-84.4	☑	Reflex EZ	56749	
342.00			46	37	-83.9	-83.9	☑	Reflex EZ	56179	
348.00			47.9	38.9	-83.8	-83.8	☑	Reflex EZ	56821	
351.00			51.4	42.4	-84.1	-84.1	☑	Reflex EZ	56886	
354.00			49.8	40.8	-84.3	-84.3	☑	Reflex EZ	56953	
360.00			50.6	41.6	-84	-84	☑	Reflex EZ	56957	
363.00			50.7	41.7	-84.3	-84.3	☑	Reflex EZ	56934	
369.00			47.1	38.1	-83.7	-83.7	☑	Reflex EZ	56793	
372.00			50.4	41.4	-83.7	-83.7	☑	Reflex EZ	56748	
378.00			47.8	38.8	-84.3	-84.3	☑	Reflex EZ	56820	
381.00			49.9	40.9	-84.2	-84.2	☑	Reflex EZ	56041	
384.00			47.4	38.4	-84	-84	☑	Reflex EZ	56822	
390.00			51.1	42.1	-83.7	-83.7	☑	Reflex EZ	56468	
393.00			48.1	39.1	-83.9	-83.9	☑	Reflex EZ	56843	
396.00			50.9	41.9	-83.7	-83.7	☑	Reflex EZ	56862	
399.00			49.9	40.9	-83.7	-83.7	☑	Reflex EZ	56884	
402.00			48.3	39.3	-83.7	-83.7	☑	Reflex EZ	56920	
405.00			48.6	39.6	-84.1	-84.1	☑	Reflex EZ	56906	
408.00			50.2	41.2	-84.3	-84.3	☑	Reflex EZ	56830	
411.00			50.6	41.6	-84.3	-84.3	☑	Reflex EZ	56419	
414.00			50.8	41.8	-84.1	-84.1	☑	Reflex EZ	56863	
417.00			49.7	40.7	-84.3	-84.3	☑	Reflex EZ	56851	
420.00			49.2	40.2	-83.8	-83.8	☑	Reflex EZ	56247	
423.00			51.7	42.7	-84	-84	☑	Reflex EZ	56425	
426.00			47.9	38.9	-83.6	-83.6	☑	Reflex EZ	56761	

Distance	Grid Azimuth (°)		Astro. Azimuth (°)		Dip (°)		Use Test	Survey Method	Mag. Field (nT)	Comments
	Original	Final	Original	Final	Original	Final				
429.00			50.7	41.7	-84.1	-84.1	☑	Reflex EZ	56396	
432.00			48.5	39.5	-83.9	-83.9	☑	Reflex EZ	56872	
435.00			47.8	38.8	-84	-84	☑	Reflex EZ	56985	
438.00			51.4	42.4	-83.8	-83.8	☑	Reflex EZ	56970	
441.00			51.3	42.3	-83.9	-83.9	☑	Reflex EZ	56902	
444.00			48.4	39.4	-83.7	-83.7	☑	Reflex EZ	56907	
447.00			50.6	41.6	-83.7	-83.7	☑	Reflex EZ	56938	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
0.00	48.50	**OB Overburden** There is about 12 Metres of hard packed fine grey clay with grey and white pebbles<5cm throughout above the usual limestone boulders.							
48.50	49.50	**SED Sediment** Light grey to white limestone. Lower contact is an unconformity.							

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
49.50	- 140.32	**GRPBX Graphitic Breccia** Pink to grey pink with dark brecciated areas. This unit weakly brecciated in areas verging on strongly graphite fracture filled and overprinted syenite. Many of these more syenite areas are 0.5-1m in width therefore I included everything as the breccia. 49.50-60.00 this area of the unit it more pink and weakly brecciated throughout. Where there is a stronger breccia the rock is quite soft due to weathering. 58.00-58.25 rubbly fault. 59.40-59.80 rubbly fault @ 64dca. 60.00-75.00 More grey pink in colour with some stronger pink less overprinted areas. Stronger brecciated areas are still softer and weathering is still occurring along fractures. There is moderate carbonate veining especially between 60-63m where is becomes quite strong. 75.00-94.00 of unit the rock is now mostly grey to grey with a hint of pink. The weathering of the brecciated zones and along fractures has all but ceased. The syenite areas from here on seem to be moderately to strongly overprinted with graphite. 77.37-77.58 rubbly fault. 87.40-87.74 gouge filled fractures @ ~120dca. 93.73-97.13 moderate fracturing. 94.00-140.32 Grey sub-angular to angular fragments in a dark grey sometimes metallic graphite rich matrix. There is trace pyrite associated with the matrix and along fractures. There are some 0.5-1m sections of graphite overprinted syenite, the over printing in these sections seems moderate to strong. There is some hematite staining along some fractures especially in a moderately fractured area between 103-105m. 114.36-1114.68 rubbly fault. 133.18-133.21 pink fine grained syenite vein with perpendicular fractures filled with pyrite and graphite @ 65dca. 134.46-134.49 pink fine grained syenite vein with perpendicular fractures filled with pyrite and graphite @ 27dca. The lower contact is irregular at 83dca.	Q159778	49.50	50.00	0.50	2.83	0.14	
			Q159779	50.00	51.00	1.00	7.04	0.07	
			Q159780	51.00	52.00	1.00	1.61	0.05	
			Q159781	52.00	53.00	1.00	2.57	0.08	
			Q159782	53.00	54.00	1.00	2.79	0.08	
			Q159783	54.00	55.00	1.00	3.55	0.04	
			Q159785	55.00	56.00	1.00	3.41	0.09	
			Q159786	56.00	57.00	1.00	0.74	0.02	
			Q159787	57.00	58.00	1.00	0.16	0.02	
			Q159788	58.00	59.00	1.00	2.88	0.03	
			Q159789	59.00	60.00	1.00	1.12	0.07	
			Q159790	60.00	61.00	1.00	2.28	0.03	
			Q159791	60.00	61.00	1.00	2.31	0.02	
			Q159792	61.00	62.00	1.00	5.46	0.02	
			Q159793	62.00	63.00	1.00	4.81	0.02	
			Q159794	63.00	64.00	1.00	3.35	0.03	
			Q159796	64.00	65.00	1.00	4.58	0.02	
			Q159797	65.00	66.00	1.00	4.47	0.03	
			Q159798	66.00	67.00	1.00	5.94	0.02	
			Q159799	67.00	68.00	1.00	2.51	0.1	
			Q159800	68.00	69.00	1.00	3.09	0.05	
			Q159801	69.00	70.00	1.00	7.66	0.02	
			Q159802	70.00	71.00	1.00	0.63	0.03	
			Q159803	71.00	72.00	1.00	3.99	0.05	
			Q159805	72.00	73.00	1.00	1.1	0.26	
			Q159806	73.00	74.00	1.00	4.85	0.22	
			Q159807	74.00	75.00	1.00	1.32	0.43	
			Q159808	75.00	76.00	1.00	0.2	0.34	
			Q159809	76.00	77.00	1.00	3.46	0.23	
			Q159810	77.00	78.00	1.00	5.87	0.18	
			Q159811	77.00	78.00	1.00	5.98	0.19	
			Q159812	78.00	79.00	1.00	4.47	0.08	
			Q159813	79.00	80.00	1.00	3.01	0.07	
			Q159814	80.00	81.00	1.00	4.47	0.09	
			Q159816	81.00	82.00	1.00	4.71	0.36	
			Q159817	82.00	83.00	1.00	2.95	0.28	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q159818	83.00	84.00	1.00	1.56	0.41	
		Q159819	84.00	85.00	1.00	4.08	0.15	
		Q159820	85.00	86.00	1.00	6.23	0.08	
		Q159821	86.00	87.00	1.00	0.42	0.17	
		Q159822	87.00	88.00	1.00	7.98	0.13	
		Q159823	88.00	89.00	1.00	9.2	0.2	
		Q159825	89.00	90.00	1.00	6.71	0.21	
		Q159826	90.00	91.00	1.00	3.08	0.22	
		Q159827	91.00	92.00	1.00	1.99	0.37	
		Q159828	92.00	93.00	1.00	0.91	0.29	
		Q159829	93.00	94.00	1.00	4.15	0.19	
		Q159831	94.00	95.00	1.00	6.98	0.18	
		Q159830	94.00	95.00	1.00	7.36	0.15	
		Q159832	95.00	96.00	1.00	6.67	0.22	
		Q159833	96.00	97.00	1.00	8.1	0.44	
		Q159834	97.00	98.00	1.00	6.5	0.49	
		Q159836	98.00	99.00	1.00	3.88	0.59	
		Q159837	99.00	100.00	1.00	8.98	0.55	
		Q159838	100.00	101.00	1.00	14.55	0.27	
		Q159839	101.00	102.00	1.00	5	0.37	
		Q159840	102.00	103.00	1.00	6.83	0.67	
		Q159841	103.00	104.00	1.00	1.6	0.21	
		Q159842	104.00	105.00	1.00	3.06	0.22	
		Q159843	105.00	106.00	1.00	6.58	0.25	
		Q159845	106.00	107.00	1.00	7.12	0.35	
		Q159846	107.00	108.00	1.00	5.58	0.51	
		Q159847	108.00	109.00	1.00	3.73	0.4	
		Q159848	109.00	110.00	1.00	3.5	0.37	
		Q159849	110.00	111.00	1.00	3.23	0.27	
		Q159850	111.00	112.00	1.00	3.11	0.31	
		Q159851	111.00	112.00	1.00	2.8	0.28	
		Q159852	112.00	113.00	1.00	6	0.57	
		Q159853	113.00	114.00	1.00	4.13	0.43	
		Q159854	114.00	115.00	1.00	4.65	0.36	
		Q159856	115.00	116.00	1.00	3.54	0.47	
		Q159857	116.00	117.00	1.00	1.44	0.38	
		Q159858	117.00	118.00	1.00	4.08	0.43	

Lithology From	To	Sample #	From	To	Len.	CG %	S %	Core Density
		Q159859	118.00	119.00	1.00	4.89	0.34	
		Q159860	119.00	120.00	1.00	6.82	0.57	
		Q159861	120.00	121.00	1.00	5.1	0.26	
		Q159862	121.00	122.00	1.00	6.48	0.49	
		Q159863	122.00	123.00	1.00	4.73	0.3	
		Q159865	123.00	124.00	1.00	6.42	0.57	
		Q159866	124.00	125.00	1.00	2.09	0.22	
		Q159867	125.00	126.00	1.00	3.05	0.58	
		Q159868	126.00	127.00	1.00	0.56	0.39	
		Q159869	127.00	128.00	1.00	3.64	0.36	
		Q159870	128.00	129.00	1.00	5.13	0.6	
		Q159871	128.00	129.00	1.00	5.23	0.6	
		Q159872	129.00	130.00	1.00	4.33	0.53	
		Q159873	130.00	131.00	1.00	2.91	0.78	
		Q159874	131.00	132.00	1.00	3.79	0.39	
		Q159876	132.00	133.00	1.00	5.41	0.5	
		Q159877	133.00	134.00	1.00	3.93	0.58	
		Q159878	134.00	135.00	1.00	7.73	0.93	2.61
		Q159879	135.00	136.00	1.00	2.24	0.89	2.7
		Q159880	136.00	137.00	1.00	5.79	0.44	2.69
		Q159881	137.00	138.00	1.00	7.8	0.56	2.63
		Q159882	138.00	139.00	1.00	7.18	0.44	2.67
		Q159883	139.00	140.32	1.32	6.3	0.52	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
140.32 -	148.08	**SYEN Syenite** Grey and white with some pale pink along some fracturing, fine to medium grained and hard. There is moderate black chlorite fracture filling throughout the unit. 146.55-147 localized graphite breccia. 147-148.08 more fracture filling between the localized breccia and the breccia unit below SYENOP. Lower contact sharp at 127dca.	Q159885	140.32	141.00	0.68	0.2	0.1	
			Q159886	141.00	142.00	1.00	0.13	0.05	
			Q159887	142.00	143.00	1.00	0.11	0.08	
			Q159888	143.00	144.00	1.00	0.13	0.05	
			Q159889	144.00	145.00	1.00	0.09	0.05	
			Q159891	145.00	146.00	1.00	0.16	0.09	
			Q159890	145.00	146.00	1.00	0.18	0.09	
			Q159892	146.00	146.55	0.55	0.89	0.13	
			Q159893	146.55	147.00	0.45	3.23	0.13	
			Q159894	147.00	148.08	1.08	0.44	0.14	
148.08 -	164.93	**GRPBX Graphitic Breccia** Grey, sub-angular to sub-rounded, moderately to strongly overprinted fragments in a graphite rich matrix. There is <10% grey pink fragments that are weakly overprinted. In areas this breccia grades into a strongly fracture filled and moderately to strongly overprinted syenite sections all less than 1m in width. There is trace pyrite associated with the matrix and along fractures. 157.25-157.48 rubbly fault Lower contact sharp at 52dca.	Q159896	148.08	149.00	0.92	4.28	0.62	
			Q159897	149.00	150.00	1.00	4.81	0.55	
			Q159898	150.00	151.00	1.00	3.6	0.69	
			Q159899	151.00	152.00	1.00	2.06	0.39	
			Q159900	152.00	153.00	1.00	0.9	0.22	
			Q159901	153.00	154.00	1.00	4.52	0.32	
			Q159902	154.00	155.00	1.00	2.24	0.24	
			Q159903	155.00	156.00	1.00	5.12	0.8	
			Q159905	156.00	157.00	1.00	3.73	0.38	
			Q159906	157.00	158.00	1.00	4.15	0.25	
			Q159907	158.00	159.00	1.00	2.16	0.45	
			Q159908	159.00	160.00	1.00	4.3	0.45	
			Q159909	160.00	161.00	1.00	7	0.66	
			Q159910	161.00	162.00	1.00	4.44	0.58	
			Q159911	161.00	162.00	1.00	4.57	0.57	
			Q159912	162.00	163.00	1.00	5.48	0.59	
			Q159913	163.00	164.00	1.00	1.82	0.23	
			Q159914	164.00	164.93	0.93	2.91	0.37	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
164.93	167.80	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained, hard rock with moderate graphite filled fractures. There is minor carbonate in a few fractures. 166.48-166.90 Grey, fine grained very hard intermediate dyke @ 100dca. Lower contact sharp at 67dca.	Q159916	164.93	166.00	1.07	0.11	0.13	
			Q159917	166.00	167.00	1.00	0.05	0.06	
			Q159918	167.00	167.80	0.80	0.26	0.13	
167.80	174.37	**GRPBX Graphitic Breccia** Grey, sub-angular to sub-rounded, moderately to strongly overprinted fragments in a graphite rich matrix. In areas this breccia grades into a strongly fracture filled and moderately to strongly overprinted syenite sections all less than 1m in width. This unit is 60% breccia/40% overprinted syenite. There is trace pyrite associated with the matrix and in fractures. 169.40-169.62 rubbly fault. Lower contact sharp at 31dca.	Q159919	167.80	169.00	1.20	3.75	0.27	
			Q159920	169.00	170.00	1.00	1.02	0.31	
			Q159921	170.00	171.00	1.00	1.25	0.41	
			Q159922	171.00	172.00	1.00	1.99	0.29	
			Q159923	172.00	173.00	1.00	2.36	0.28	
			Q159925	173.00	174.37	1.37	2.92	0.39	
174.37	181.75	**SYENOP Syenite with Graphitic Overprinting** Grey to pink, fine to medium grained, with some coarse grained areas, hard. This unit has localized areas grading from strong fracture filling to brecciated zones. Trace pyrite in blebs. The unit is 80% overprinted syenite 20% breccia. 174.35-174.90 moderated chlorite and biotite alteration. 175.48-175.95 moderate chlorite and biotite alteration with a 2cm pink fine grained felsic dyke at 175.75 @ 65dca. 179.47-179.54 pink fine grained felsic dyke A 30dca. Lower contact sharp at 96dca.	Q159926	174.37	175.00	0.63	0.59	0.29	
			Q159927	175.00	176.00	1.00	0.22	0.22	
			Q159928	176.00	177.00	1.00	0.23	0.25	
			Q159929	177.00	178.00	1.00	0.72	0.12	
			Q159931	178.00	179.10	1.10	0.61	0.4	
			Q159930	178.00	179.10	1.10	0.6	0.39	
			Q159932	179.10	180.00	0.90	4.06	0.38	
			Q159933	180.00	181.00	1.00	0.81	0.21	
			Q159934	181.00	181.75	0.75	0.31	0.17	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
181.75	194.07	**GRPBX Graphitic Breccia** Grey, sub-angular to sub-rounded, moderately to strongly overprinted fragments in a graphite rich matrix. In areas this breccia grades into a strongly fracture filled and moderately to strongly overprinted syenite sections all less than 1m in width. There is trace pyrite associated with the matrix. This unit is 80% breccia/20% overprinted syenite.	Q159936	181.75	183.00	1.25	4.68	0.45	
			Q159937	183.00	184.00	1.00	3.82	0.49	
			Q159938	184.00	185.00	1.00	1.17	0.55	
			Q159939	185.00	186.00	1.00	1.42	0.09	
			Q159940	186.00	187.00	1.00	6.87	0.39	
			Q159941	187.00	188.00	1.00	1.66	0.2	
			Q159942	188.00	189.00	1.00	2.74	0.19	
			Q159943	189.00	190.00	1.00	1.77	0.38	
			Q159945	190.00	191.00	1.00	2.28	0.31	
			Q159946	191.00	192.00	1.00	6.45	0.37	
			Q159947	192.00	193.00	1.00	2.73	0.25	
			Q159948	193.00	194.07	1.07	1.39	0.1	
194.07	200.51	**SYENSL Syenite Sill (unmineralized)** Grey to grey green medium grained hard rock with fine and coarse grained phases. Some minor black chlorite along fractures. 200.16-200.51 grey fine grained porphyritic unit with 0.5cm white and green phenocrysts. Lower contact at 133dca.	Q159949	194.07	195.00	0.93	0.05	0.03	
			Q159951	195.00	196.50	1.50	0.04	0.03	
			Q159950	195.00	196.50	1.50	0.03	0.03	
			Q159952	196.50	198.00	1.50	0.04	0.03	
			Q159953	198.00	199.50	1.50	0.07	0.05	
			Q159954	199.50	200.51	1.01	0.31	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
200.51	213.79	**GRPBX Graphitic Breccia** Grey, sub-angular to sub-rounded, moderately to strongly overprinted fragments in a graphite rich matrix. In areas this breccia grades into a strongly fracture filled and moderately to strongly overprinted syenite sections all less than 1m in width. There is trace pyrite associated with the matrix. This unit is 80% breccia/20% overprinted syenite. 201.35-201.5 a strongly graphitic section that shows weak banding and possible fining of fragments down hole. At the coarsest size, the fragments are ~1mm. 206.44-206.47 pink fine grained felsic dyke @ 93dca. 207.50-207.53 pink fine grained felsic dyke @ 68dca. 208.03-208.06 pink fine grained felsic dyke @ 54dca. 210.80-211.02 pink fine grained felsic dyke @ 115dca. 211.63-211.78 rubbly fault chlorite present. 212.00-212.15 rubbly fault. 212.40-212.50 rubbly fault.	Q159956	200.51	201.00	0.49	3.05	0.27	
			Q159957	201.00	202.22	1.22	8.02	0.31	
			Q159958	202.22	203.00	0.78	0.14	0.13	
			Q159959	203.00	203.93	0.93	0.39	0.09	
			Q159960	203.93	205.00	1.07	1.72	0.31	
			Q159961	205.00	206.00	1.00	2.85	0.22	
			Q159962	206.00	207.00	1.00	4.63	0.35	
			Q159963	207.00	208.00	1.00	1.57	0.19	
			Q159965	208.00	209.00	1.00	3.3	0.32	
			Q159966	209.00	210.00	1.00	0.57	0.05	
			Q159967	210.00	211.00	1.00	1.37	0.25	
			Q159968	211.00	212.00	1.00	2.87	0.23	
			Q159969	212.00	213.00	1.00	3.24	0.31	
			Q159971	213.00	213.79	0.79	2.17	0.17	
			Q159970	213.00	213.79	0.79	2.25	0.17	
213.79	215.84	**SYENSL Syenite Sill (unmineralized)** Grey to grey green medium grained and hard, possibly intermediate? Lower contact sharp at 106dca.	Q159972	213.79	215.00	1.21	0.12	0.1	
			Q159973	215.00	215.84	0.84	0.08	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
215.84	232.52	**GRPBX Graphitic Breccia** Grey, sub-angular to sub-rounded, moderately to strongly overprinted fragments in a graphite rich matrix. In areas this breccia grades into a strongly fracture filled and moderately to strongly overprinted syenite sections all less than 1m in width. There is trace pyrite associated with the matrix. This unit is 80% breccia/20% overprinted syenite. 220.95-221.00 rubbly fault. 222.00-222.05 rubbly fault with gouge. 224.4-224.42 gouge filled fault. 224.64-225.50 grey, slightly porphyritic dyke, possibly intermediate @ 100dca. 227.35-227.75 grey, slightly porphyritic dyke, possibly intermediate @ 50dca. 229.75-230.68 multiple 1cm wide irregular pink fine grained dykelets ranging between 70 and 117dca.							
			Q159974	215.84	217.00	1.16	4.85	0.19	
			Q159976	217.00	218.00	1.00	3.5	0.15	
			Q159977	218.00	219.00	1.00	1.67	0.47	
			Q159978	219.00	220.00	1.00	0.48	0.21	
			Q159979	220.00	221.00	1.00	1.91	0.14	
			Q159980	221.00	222.00	1.00	1.04	0.11	
			Q159981	222.00	223.00	1.00	4.59	0.72	
			Q159982	223.00	224.00	1.00	2.64	0.29	
			Q159983	224.00	225.00	1.00	2.04	0.19	
			Q159985	225.00	226.00	1.00	0.63	0.29	
			Q159986	226.00	227.00	1.00	4.47	0.52	
			Q159987	227.00	228.00	1.00	2.32	0.23	
			Q159988	228.00	229.00	1.00	4.62	0.43	
			Q159989	229.00	230.00	1.00	2.79	0.73	
			Q159990	230.00	231.00	1.00	3.55	0.43	
			Q159991	230.00	231.00	1.00	3.52	0.42	
			Q159992	231.00	232.00	1.00	1.71	0.42	
			Q159993	232.00	232.52	0.52	0.03	0.28	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
232.52	296.71	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, medium grained, hard. The fine grained phases are not as present in this unit as in others. There is a weak pervasive chlorite alteration that becomes moderate in areas as well as weak chlorite alteration along some fractures. 233.49-234.34 grey porphyry dyke with white and green phenocrysts the upper contact is sharp at 55dca and the lower contact is very irregular. 292.50-296.71 Fine grained phases are becoming more abundant. Lower contact at 85dca.	Q159994	232.52	234.00	1.48	0.06	0.04	
			Q159996	234.00	235.50	1.50	0.02	0.03	
			Q159997	235.50	237.00	1.50	0.04	0.02	2.63
			Q159998	237.00	238.50	1.50	0.04	0.02	2.64
			Q159999	238.50	240.00	1.50	0.07	0.02	2.69
			Q160000	240.00	241.50	1.50	0.03	0.03	2.62
			Q160001	241.50	243.00	1.50	0.04	0.02	2.71
			Q160002	243.00	244.50	1.50	0.04	0.03	
			Q160003	244.50	246.00	1.50	0.02	0.02	
			Q160005	246.00	247.50	1.50	0.04	0.02	
			Q160006	247.50	249.00	1.50	0.02	0.02	
			Q160007	249.00	250.50	1.50	0.08	0.04	
			Q160008	250.50	252.00	1.50	0.06	0.02	
			Q160009	252.00	253.50	1.50	0.04	0.02	
			Q160010	253.50	255.00	1.50	0.05	0.02	
			Q160011	253.50	255.00	1.50	0.04	0.01	
			Q160012	255.00	256.50	1.50	0.08	0.02	
			Q160013	256.50	258.00	1.50	0.09	0.02	
			Q160014	258.00	259.50	1.50	0.07	0.02	
			Q160016	259.50	261.00	1.50	0.04	0.03	
			Q160017	261.00	262.50	1.50	0.05	0.02	
			Q160018	262.50	264.00	1.50	0.03	0.01	
			Q160019	264.00	265.50	1.50	0.02	0.03	
			Q160020	265.50	267.00	1.50	0.01	0.05	
			Q160021	267.00	268.50	1.50	0.02	0.02	
			Q160022	268.50	270.00	1.50	0.04	0.04	
			Q160023	270.00	271.50	1.50	0.03	0.02	
			Q160025	271.50	273.00	1.50	0.02	0.05	
			Q160026	273.00	274.50	1.50	0.05	0.03	
			Q160027	274.50	276.00	1.50	0.05	0.02	
			Q160028	276.00	277.50	1.50	0.03	0.03	
			Q160029	277.50	279.00	1.50	0.02	0.02	
			Q160030	279.00	280.50	1.50	0.05	0.08	
			Q160031	279.00	280.50	1.50	0.05	0.08	
			Q160032	280.50	282.00	1.50	0.03	0.06	
			Q160033	282.00	283.50	1.50	0.03	0.07	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
			Q160034	283.50	285.00	1.50	0.04	0.08	
			Q160036	285.00	286.50	1.50	0.03	0.04	
			Q160037	286.50	288.00	1.50	0.02	0.03	
			Q160038	288.00	289.50	1.50	0.02	0.05	
			Q160039	289.50	291.00	1.50	0.03	0.09	
			Q160040	291.00	292.50	1.50	0.03	0.02	
			Q160041	292.50	294.00	1.50	0.03	0.02	
			Q160042	294.00	295.50	1.50	0.02	0.02	
			Q160043	295.50	296.71	1.21	0.03	0.15	
296.71	301.08	**GRPBX Graphitic Breccia** Grey angular to sub-rounded fragments in a graphite rich matrix. Fragments are <15cm in size and the majority of them are moderately to strongly overprinted with graphite. This unit is 80% breccia/20% syenite. Lower contact at 80dca.	Q160045	296.71	298.00	1.29	4.71	0.54	
			Q160046	298.00	299.00	1.00	3.69	0.22	
			Q160047	299.00	300.00	1.00	3.71	0.36	
			Q160048	300.00	301.08	1.08	5.71	0.37	
301.08	303.70	**SYENSL Syenite Sill (unmineralized)** Grey green medium grained and hard. There is a pervasive chlorite alteration in this unit and trace pyrite in blebs. Lower contact at 130dca.	Q160049	301.08	302.00	0.92	0.05	0.27	
			Q160051	302.00	303.07	1.07	0.18	0.06	
			Q160050	302.00	303.07	1.07	0.17	0.06	
			Q160052	303.07	304.00	0.93	8	0.25	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
303.70	310.36	**GRPBX Graphitic Breccia** Grey angular to sub-rounded fragments in a graphite rich matrix. Fragments are <15cm in size and the majority of them are moderately to strongly overprinted with graphite. This unit is 70% breccia/30% syenite. Lower contact at 120dca.	Q160053	304.00	305.00	1.00	0.39	0.16	
			Q160054	305.00	306.00	1.00	3.4	0.21	
			Q160056	306.00	307.00	1.00	3.51	0.37	
			Q160057	307.00	308.00	1.00	4.92	0.32	
			Q160058	308.00	309.00	1.00	5.84	0.13	
			Q160059	309.00	310.36	1.36	2.23	0.08	
310.36	321.76	**SYEN Syenite** Grey to pink fine to medium grained hard rock. Locally there are some small brecciated sections <5cm but these do not seem to be conductive. 313.00-321 major fault zone, fracturing in this area ranges from moderate to extreme. There is localized fault gouge throughout this unit. There is also chlorite found on most fractures within this fault zone. Lower contact at 126dca.	Q160060	310.36	311.00	0.64	0.61	0.04	
			Q160061	311.00	312.00	1.00	0.18	0.05	
			Q160062	312.00	313.00	1.00	0.1	0.08	
			Q160063	313.00	314.00	1.00	0.05	0.36	
			Q160065	314.00	315.00	1.00	0.02	0.09	
			Q160066	315.00	316.00	1.00	0.04	0.08	
			Q160067	316.00	317.00	1.00	0.07	0.09	
			Q160068	317.00	318.00	1.00	0.04	0.17	
			Q160069	318.00	319.00	1.00	0.03	0.22	
			Q160071	319.00	320.00	1.00	0.05	0.13	
			Q160070	319.00	320.00	1.00	0.07	0.13	
			Q160072	320.00	321.00	1.00	0.03	0.09	
			Q160073	321.00	321.76	0.76	0.04	0.04	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
321.76	339.39	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, medium grained with fine and coarse grained phases. Mild chlorite along fractures. Lower contact sharp at 47dca.	Q160074	321.76	323.00	1.24	0.07	0.05	
			Q160076	323.00	324.00	1.00	0.05	0.07	
			Q160077	324.00	325.50	1.50	0.08	0.03	
			Q160078	325.50	327.00	1.50	0.06	0.08	
			Q160079	327.00	328.50	1.50	0.07	0.03	
			Q160080	328.50	330.00	1.50	0.05	0.06	
			Q160081	330.00	331.50	1.50	0.07	0.03	
			Q160082	331.50	333.00	1.50	0.05	0.03	
			Q160083	333.00	334.50	1.50	0.05	0.07	
			Q160085	334.50	336.00	1.50	0.05	0.04	
			Q160086	336.00	337.50	1.50	0.06	0.04	
			Q160087	337.50	338.50	1.00	0.07	0.04	
			Q160088	338.50	339.39	0.89	0.03	0.11	
339.39	342.81	**FP Feldspar Porphyry** Dark grey green fine grained mafic dyke with 0.5-2cm feldspar phenocrysts. The unit seems to be strongly chlorite altered. There is fracturing running sub parallel to the core throughout most of this unit. 339.39-339.70 rubbly fault. Lower contact sharp at 162dca.	Q160089	339.39	340.00	0.61	0.06	0.29	
			Q160091	340.00	341.00	1.00	0.04	0.38	
			Q160090	340.00	341.00	1.00	0.06	0.44	
			Q160092	341.00	342.00	1.00	0.07	0.17	
			Q160093	342.00	342.81	0.81	0.07	0.21	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
342.81	350.41	**FP Feldspar Porphyry** Grey fine grained felsic unit with 0.5-1cm feldspar phenocrysts and smaller green olivine phenocrysts. 342.81-343.23 The feldspar phenocrysts have a pink tinge to them possibly an alteration due to the proximity to the contact with the above dyke? 350.00-350.16 a small localized breccia unit that seems to be related to the contact between the porphyry and the gabbro. Lower contact sharp but irregular at 168dca. 343.23-343.59 small coarse grained gabbro dyke.	Q160094	342.81	344.00	1.19	0.04	0.12	
			Q160096	344.00	345.00	1.00	0.05	0.09	2.76
			Q160097	345.00	346.00	1.00	0.05	0.13	2.77
			Q160098	346.00	347.00	1.00	0.06	0.16	2.82
			Q160099	347.00	348.00	1.00	0.07	0.14	2.71
			Q160100	348.00	349.00	1.00	0.08	0.18	2.77
			Q160101	349.00	350.41	1.41	0.21	0.24	
350.41	358.87	**SYENSL Syenite Sill (unmineralized)** Grey to grey green, medium hard. 355.33-355.76 dark grey mafic feldspar porphyry with late syenite sill running through it. Lower contact sharp at 84dca.	Q160102	350.41	351.00	0.59	0.08	0.3	
			Q160103	351.00	352.50	1.50	0.02	0.01	
			Q160105	352.50	354.00	1.50	0.01	0.13	
			Q160106	354.00	355.50	1.50	0.03	0.12	
			Q160107	355.50	357.00	1.50	0.01	0.07	
			Q160108	357.00	358.00	1.00	0.01	0.17	
			Q160109	358.00	358.87	0.87	0.05	0.04	
358.87	365.25	**GRPBX Graphitic Breccia** Grey to pink angular to sub-rounded fragments in a graphite rich matrix. Fragments are <15cm in size and the majority of them are moderately to strongly overprinted with graphite. Some of these fragments are more elongated of rectangular than seen elsewhere. 361.50-363.61 some larger fragments that exhibit graphite fracture filling. 363.61-325.25 mostly gabbro and feldspar porphyry with localized graphite breccia. Lower contact sharp but irregular at 162dca.	Q160111	358.87	360.00	1.13	7.37	0.39	
			Q160110	358.87	360.00	1.13	7.4	0.38	
			Q160112	360.00	361.00	1.00	4.26	0.25	
			Q160113	361.00	362.00	1.00	4.42	0.14	
			Q160114	362.00	363.00	1.00	4.01	0.47	
			Q160116	363.00	363.61	0.61	4.16	0.4	
			Q160117	363.61	364.28	0.67	0.12	0.23	
			Q160118	364.28	365.25	0.97	0.43	0.47	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
365.25	366.75	**FP Feldspar Porphyry** Grey fine grained felsic rock with white feldspar phenocrysts <2cm and green olivine? Phenocrysts <1cm. Lower contact sharp but irregular at 153dca.	Q160119	365.25	366.75	1.50	0.03	0.17	
366.75	380.45	**GRPBX Graphitic Breccia** Grey to pink fragments in a graphite rich matrix. Fragments are angular to sub-rounded and are weakly to moderately overprinted with graphite. There are some larger sections of syenite. This unit is 60% breccia/40% syenite with overprinting. Trace pyrite associated with matrix. Lower contact at 101dca. 368.55-368.87 chlorite and biotite alteration zone. 370.94-371.83 medium grained gabbro @ 90dca.	Q160120	366.75	368.00	1.25	3.06	0.22	
			Q160121	368.00	369.00	1.00	1.08	0.41	
			Q160122	369.00	370.00	1.00	1.69	0.27	
			Q160123	370.00	370.94	0.94	4.3	0.55	
			Q160125	370.94	371.83	0.89	0.03	0.05	
			Q160126	371.83	373.00	1.17	2.04	0.36	
			Q160127	373.00	374.00	1.00	1.36	0.33	
			Q160128	374.00	375.00	1.00	3.17	0.4	
			Q160129	375.00	376.00	1.00	2.37	0.32	
			Q160131	376.00	377.00	1.00	2.99	0.4	
			Q160130	376.00	377.00	1.00	3.03	0.4	
			Q160132	377.00	378.00	1.00	1.57	0.61	
			Q160133	378.00	379.00	1.00	0.41	0.17	
			Q160134	379.00	380.00	1.00	0.6	0.41	
			Q160136	380.00	380.45	0.45	3.31	0.3	
380.45	382.88	**FP Feldspar Porphyry** Grey fine grained felsic rock with white feldspar phenocrysts <2cm and green olivine? Phenocrysts <1cm. Lower contact sharp at 42dca.	Q160137	380.45	381.00	0.55	0.05	0.22	
			Q160138	381.00	381.88	0.88	0.05	0.16	
			Q160139	381.88	383.00	1.12	0.82	0.13	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
382.88	404.34	**GRPBX Graphitic Breccia** Grey to pink fragments in a graphite rich matrix. Fragments are angular to sub-rounded and are weakly to moderately overprinted with graphite. There are some larger sections of syenite. This unit is 60% breccia/40% syenite with overprinting. Trace pyrite associated with matrix. Lower contact at 49dca.	Q160140	383.00	384.00	1.00	2.27	0.15	
			Q160141	384.00	385.00	1.00	1.67	0.49	
			Q160142	385.00	386.00	1.00	3.99	0.69	
			Q160143	386.00	387.00	1.00	4.55	0.27	
			Q160145	387.00	388.00	1.00	1.8	0.21	
			Q160146	388.00	389.00	1.00	0.77	0.64	
			Q160147	389.00	390.00	1.00	1.43	0.2	
			Q160148	390.00	391.00	1.00	2.92	0.32	
			Q160149	391.00	392.00	1.00	2.46	0.38	
			Q160151	392.00	393.00	1.00	5.64	0.45	
			Q160150	392.00	393.00	1.00	5.59	0.44	
			Q160152	393.00	394.00	1.00	3.86	0.34	
			Q160153	394.00	395.00	1.00	3.11	0.44	
			Q160154	395.00	396.00	1.00	2.08	0.27	
			Q160156	396.00	397.00	1.00	6.67	0.31	
			Q160157	397.00	398.00	1.00	5.75	0.33	
			Q160158	398.00	399.00	1.00	0.71	0.73	
			Q160159	399.00	400.00	1.00	1.27	0.16	
			Q160160	400.00	401.00	1.00	0.28	0.12	
			Q160161	401.00	402.00	1.00	0.42	0.13	
			Q160162	402.00	403.00	1.00	2.19	0.24	
			Q160163	403.00	404.00	1.00	1.8	0.09	
			Q160165	404.00	404.34	0.34	3.98	0.09	
404.34	409.82	**SYENSL Syenite Sill (unmineralized)** Grey to grey green medium to coarse grained with some fine grained phases. Some minor chlorite along fractures. Lower contact at 116dca.	Q160166	404.34	405.00	0.66	0.04	0.09	
			Q160167	405.00	406.50	1.50	0.03	0.28	
			Q160168	406.50	408.00	1.50	0.03	0.06	
			Q160169	408.00	409.00	1.00	0.07	0.27	
			Q160171	409.00	409.82	0.82	0.04	0.6	
			Q160170	409.00	409.82	0.82	0.02	0.53	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
409.82	410.86	**GRPBX Graphitic Breccia** Grey sub-angular to sub-round fragments in a graphite rich matrix. Most fragments have a moderate graphite overprinting. This is a small unit between a gabbro and a more coarse grained syenite. If this unit was not between the two it might be hard to tell if they were separate units or just different phases of the same unit.	Q160172	409.82	410.86	1.04	4.59	0.31	
410.86	416.53	**SYEN Syenite** Grey with white and pink medium to coarse grained with chlorite fracture filling throughout. As stated above this unit is very similar to the late sill unit but seems to be more pink and possibly has more orthoclase associated with it. Lower contact sharp at 165dca.	Q160173	410.86	412.00	1.14	0.03	0.3	
			Q160174	412.00	413.00	1.00	0.04	0.3	
			Q160176	413.00	414.00	1.00	0.06	0.55	
			Q160177	414.00	415.00	1.00	0.11	0.1	
			Q160178	415.00	416.00	1.00	0.09	0.05	
			Q160179	416.00	416.53	0.53	0.08	0.05	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
416.53	435.98	**GRPBX Graphitic Breccia** Grey to pink fragments in a graphite rich matrix. Fragments are angular to sub-rounded and are weakly to moderately overprinted with graphite. There are some larger sections of syenite. This unit is 60% breccia/40% syenite with overprinting. Trace pyrite associated with matrix. 419.23-419.95 mafic dyke. 425.23-426.59 mafic dyke. Lower contact at 49dca.	Q160180	416.53	417.00	0.47	2.1	0.32	
			Q160181	417.00	418.00	1.00	2.99	0.5	
			Q160182	418.00	419.23	1.23	2.05	1.01	
			Q160183	419.23	419.95	0.72	0.04	0.15	
			Q160185	419.95	421.00	1.05	2.17	0.4	
			Q160186	421.00	422.00	1.00	2.6	0.32	
			Q160187	422.00	423.00	1.00	1.34	0.39	
			Q160188	423.00	424.00	1.00	3.64	0.75	
			Q160189	424.00	425.23	1.23	5.19	0.41	
			Q160191	425.23	426.59	1.36	0.04	0.08	
			Q160190	425.23	426.59	1.36	0.04	0.08	
			Q160192	426.59	428.00	1.41	3.72	1.23	
			Q160193	428.00	429.00	1.00	1.36	0.57	
			Q160194	429.00	430.00	1.00	1.98	0.31	
			Q160196	430.00	431.00	1.00	0.29	0.22	
			Q160197	431.00	432.00	1.00	1.61	0.72	
			Q160198	432.00	433.00	1.00	3.24	0.38	
			Q160199	433.00	434.00	1.00	4.11	0.38	
			Q160200	434.00	435.00	1.00	4.88	0.51	
			Q160201	435.00	435.98	0.98	1.95	0.3	

Lithology From	To		Sample #	From	To	Len.	CG %	S %	Core Density
435.98	447.00	**SYEN Syenite** Pink, black and white, medium to coarse grained again similar to the late sill unit but with more pink orthoclase. Possibly a different phase of what has been described as a granite at the end of some of the other longer holes? EOH 447.0m	Q160202	435.98	437.00	1.02	0.36	0.07	
			Q160203	437.00	438.00	1.00	0.06	0.02	
			Q160205	438.00	439.00	1.00	0.02	0.02	
			Q160206	439.00	440.00	1.00	0.04	0.02	2.65
			Q160207	440.00	441.00	1.00	0.02	0.02	2.7
			Q160208	441.00	442.00	1.00	0.03	0.02	2.77
			Q160209	442.00	443.00	1.00	0.03	0.02	2.69
			Q160211	443.00	444.00	1.00	0.04	0.03	
			Q160210	443.00	444.00	1.00	0.05	0.02	2.7
			Q160212	444.00	445.00	1.00	0.02	0.04	
			Q160213	445.00	446.00	1.00	0.01	0.08	
			Q160214	446.00	447.00	1.00	0.04	0.05	