

## Drill Hole Summary Report

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Project: Waratah

Date From: 10-Aug-2008

Date To: 09-Aug-2009

Date Produced: 24-Jun-2009

Hole(s): MGD001, MGD002, MGD003, MGD004,  
MGD005

**Collars**                      **Project** Waratah                      **HoleID** MGD001

<b>LoggedBy</b>		<b>Total Depth</b>	97.30	<b>Start Date</b>	
<b>AMG Easting</b>	370240.46	<b>MGA Easting</b>		<b>End Date</b>	
<b>AMG Northing</b>	5410887.470	<b>MGA Northing</b>		<b>Hole Size</b>	NTW
<b>RL</b>	484.15			<b>Drill Type</b>	DD
<b>Local Easting</b>				<b>Drill Rig</b>	onram
<b>Local Northing</b>				<b>Drill Contractor</b>	
<b>Local RL</b>					
<b>Comments</b>	mb (entered/interped by tm)				

DHSurvey		Project Waratah		HoleID MGD001		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
	37 -1.5	294	306.4			Single-shot
	60 -2	294	306.4			Single-shot
	95 -2.5	293.5	305.9			Single-shot

Lithology		Project Waratah				HoleID MGD001						
From	To	Strat	Rock Type	Colour	Frag Comp	Frag Size	Frag Shape	Matrix Comp	Matrix Volume	Lower Contact Gradation	Lower Contact Style	Comments
0.00	19.60		b	cmgn	b	1-100	a			s	c	foliated strong carbonate alteration basaltic breccia polymict volcanoclastic?. Pervasive spotty 0.5mm carbonate alteration.
19.60	20.10		Tf	gy	b					s	c	fg shardy gray tuff with sub1mm lapilli or carbonate spots.
20.10	31.90		b	brgy	b	1-100	a			f	i	fault zone strong limonitic and carbonate alteration of mafic brx. Very broken ground.28.2m - 31.9m: 3.2m of core loss in limonitic alteration.
31.90	34.00		BxC							f	i	ankerite and fault zone
34.00	45.20		b	brgy								strong limonite carbonate alt and moderate fuchsite alt. Minor Py veining
45.20	71.30		b	gn						f	i	pyroxene and feldspar phyrlic varioles from mm to 2cm mod carbonate veining fuchsitic alteration44.2m-46m. Tr fg py.
71.30	75.30		fz									rubble pug.
75.30	92.10		dol	gn						s	c	doleritic dark green granular textured weak pervasive carbonate alteration. Locally 3% vein related sphalerite over 30cm at 75.7m.
92.10	97.30		b	gn								dark green moderately carbonate altered variolitic brecciated at uphole contact apparent peperitic contact.

Drill Assays		Project Waratah			HoleID MGD001							
From	To	Sample ID	Samp Type	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe ppm	Pb ppm	Zn ppm	SG
3.00	8.00	147751	DD	2	256	-0.01	7200	14	92300	-1	242	
8.00	13.00	147752	DD	1	180	-0.01	6400	39	60100	7	90	
13.00	18.00	147753	DD	1	159	-0.01	4600	40	60400	-1	77	
18.00	19.60	147754	DD	1	164	-0.01	7500	103	60100	-1	63	
19.60	20.10	147755	DD	2	233	-0.01	7900	15	81000	-1	136	
26.00	27.00	147756	DD	1	256	-0.01	6800	20	60800	-1	75	
27.00	28.00	147757	DD	1	211	-0.01	7800	35	61200	-1	72	
32.00	33.00	147758	DD	2	79	-0.01	2100	7	28100	15	86	
34.40	35.00	147759	DD	2	229	-0.01	1800	33	49100	34	362	
35.00	36.00	147760	DD	1	179	-0.01	4900	35	58800	48	238	
36.00	37.00	147761	DD	1	131	-0.01	1400	21	42400	-1	51	
37.00	38.00	147762	DD	2	362	-0.01	-100	16	54200	-1	78	
40.00	45.00	147763	DD	1	226	-0.01	2400	31	44900	16	84	
45.00	50.00	147764	DD	1	292	-0.01	3500	15	52900	-1	83	
50.00	55.00	147765	DD	1	200	-0.01	4000	27	55300	-1	76	
55.00	60.00	147766	DD	2	215	-0.01	5600	69	60200	42	257	
60.00	65.00	147767	DD	1	177	-0.01	3200	73	55900	-1	114	
65.00	70.00	147768	DD	1	109	-0.01	4300	28	58100	-1	113	
75.30	76.00	147771	DD	2	299	-0.01	3900	60	59800	-1	109	
76.00	77.00	147772	DD	3	143	-0.01	5700	50	60800	3	203	
77.00	78.00	147773	DD	1	202	-0.01	6200	46	54200	-1	73	
78.00	79.00	147774	DD	1	133	-0.01	4100	55	55300	5	63	
79.00	84.00	147775	DD	1	144	-0.01	5800	48	57600	-1	76	
84.00	89.00	147776	DD	1	235	-0.01	4600	87	62100	5	118	
89.00	92.10	147777	DD	1	110	-0.01	5400	78	65600	-1	134	

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92.10	97.30	147778	DD	1	67	-0.01	5700	86	59600	12	154
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**Collars**                      **Project** Waratah                      **HoleID** MGD002

<b>LoggedBy</b>		<b>Total Depth</b>	132.80	<b>Start Date</b>	18 Oct 2008
<b>AMG Easting</b>	370041.80	<b>MGA Easting</b>		<b>End Date</b>	31 Oct 2008
<b>AMG Northing</b>	5410771.960	<b>MGA Northing</b>		<b>Hole Size</b>	HQ/NTW
<b>RL</b>	563.69			<b>Drill Type</b>	DD
<b>Local Easting</b>				<b>Drill Rig</b>	P4
<b>Local Northing</b>				<b>Drill Contractor</b>	LIDDS
<b>Local RL</b>					
<b>Comments</b>					

DHSurvey		Project Waratah		HoleID MGD002		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
	0 -45	103				UNK
	20 -46	106.5	118.9			Single-shot
	50 -46.5	105.5	117.9			Single-shot
	80 -47	105	117.4			Single-shot
	110 -45.5	105	117.4			Single-shot
	132 -46	105	117.4			Single-shot



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**Project** Waratah

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96.70	98.50	Fill/GOS	4BRYW	SOME FILL BUT ALSO INSITU GOSSAN AND A PIECE OF TIMBER
98.50	109.00	Fill/DOL	3BRGN	ROUNDED FRAGMENTS MIX OF ROCK TYPES
109.00	109.85	DOL	2gngy	massive equigranular
109.85	116.20	DOL/SH	2GNGY	MIXED SHEARED DOLERITE AND SHALE/SANDSTONE/CHERT
116.20	119.20	Cav/fill		some sulfide bearing fragments gossan mixed. V poor recovery
119.20	128.60	SS/DOL	2GNGY	DOMINATED BY SANDSTONE CHERT CLASTIC ROCKS VARIABLE FUCHSITE-SILICA ALTERATION
128.60	132.80	DOL/SH	2GNGY	DOLERITE DOMINANT 132.8 EOH

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Drill Assays			Project	HoleID									
From	To	Sample ID	Waratah	MGD002	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe ppm	Pb ppm	Zn ppm	SG
52.10	53.10	303646	HalfCore	2	203	0.01			15	64000	6	164	
53.10	54.20	303647	HalfCore	1	193	-0.01			14	62500	-1	124	
54.20	56.20	303648	HalfCore	1	121	-0.01			42	63400	-1	115	
56.20	59.20	303649	HalfCore	1	207	-0.01			11	61000	-1	106	
59.20	60.00	303650	HalfCore	1	249	-0.01			22	62700	-1	139	
60.00	62.00	303651	HalfCore	1	99	-0.01			15	55400	-1	107	
62.00	63.35	303652	HalfCore	1	140	-0.01			33	68100	-1	135	
88.30	89.50	303653	HalfCore	46	362	-0.01			17	429000	599	17200	
89.50	91.10	303654	HalfCore	41	587	0.01			66	485000	5001	12100	
91.10	92.50	303655	HalfCore	94	695	0.01			42	452000	6623	16200	
92.50	94.80	303656	HalfCore	94	1605	0.02			157	461000	18000	23200	
109.00	109.80	303660	HalfCore	8	538	-0.01			30	79100	901	3457	
109.80	111.30	303661	HalfCore	37	635	-0.01			78	91400	2665	32400	
111.30	112.75	303662	HalfCore	88	438	-0.01			54	74200	6080	25800	
112.75	113.30	303663	HalfCore	120	911	-0.01			96	171000	10900	55400	
113.30	114.30	303664	HalfCore	15	374	-0.01			37	68300	758	6300	
114.30	115.30	303665	HalfCore	4	406	-0.01			28	48400	119	700	
115.30	116.20	303666	HalfCore	96	349	-0.01			137	117000	9949	68500	
119.20	120.00	303667	HalfCore	26	474	-0.01			75	111000	4067	24200	
120.00	121.00	303668	HalfCore	4	480	-0.01			47	65200	162	1531	
121.00	122.00	303669	HalfCore	1	290	-0.01			27	53800	111	316	
122.00	123.00	303670	HalfCore	2	40	0.01			187	36800	46	531	
123.00	124.00	303671	HalfCore	11	436	-0.01			49	67300	958	1419	
124.00	125.00	303672	HalfCore	2	266	-0.01			49	50200	111	360	
125.00	126.00	303673	HalfCore	1	90	0.01			90	50400	29	507	

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**Project** Waratah

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126.00	127.00	303674	HalfCore	1	83	0.01	68	45500	21	609
127.00	128.00	303675	HalfCore	1	114	-0.01	148	34600	2	130
128.00	129.00	303676	HalfCore	2	267	-0.01	35	58400	265	768
129.00	130.00	303677	HalfCore	1	554	0.09	26	59700	276	948
130.00	131.00	303678	HalfCore	3	660	-0.01	23	73500	367	1959
131.00	132.00	303679	HalfCore	12	650	-0.01	30	111000	1284	5973
132.00	132.80	303680	HalfCore	10	460	-0.01	39	86500	520	9920

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DHSurvey		Project Waratah		HoleID MGD003		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
	0 -57.5	103				UNK
	20 -57.5	111	123.4			Single-shot
	50 -58	112	124.4			Single-shot
	80 -57.5	109	121.4			Single-shot
	110 -60	107	119.4			Single-shot
	112 -58	112	124.4			Single-shot

Lithology		Project Waratah				HoleID MGD003						
From	To	Strat	Rock Type	Colour	Frag Comp	Frag Size	Frag Shape	Matrix Comp	Matrix Volume	Lower Contact Gradation	Lower Contact Style	Comments
0.00	14.00	B		2GYBR						G1		FRACTURED VARIOLITIC BASALT...VARIOLES ~5MM
14.00	31.90	DOL		2BRRD								EQUIGRANULAR MORE OXIDIZED THAN THE ABOVE
31.90	34.30	B		2GYBR						S	C	55 DEG CONTACT CLOTS OF GOSSAN? EX SULS?
34.30	51.00	DOL		3BR						G1		BROKEN BECOMING MORE OXIDIZED
51.00	55.00	FZ		3BRRD								RUBBLE AND CLAY STRONG FABRIC SUB-PARALLEL TO CA
55.00	61.10	DOL/FZ		3BRRD						S	F	SEVERAL CLAY SEAMS (EX FAULTS)
61.10	73.40	BXC		2WHGY						G1		BRECCIA ZONE AND ORBICULAR CARBONATE WITH CHLORITIC MATRIX. SEMI MASSIVE CARBONATE 70.3-72?
73.40	89.10	DOL		3BRRD						S		HIGHLY OXIDIZED FROM 80M.....CONTACT IS TRANSITION TO FRESH ROCK
89.10	95.40	B		4BK						G1		BLACK ROCK WHICH ORIGINALLY THOUGHT TO BE GABBROIC BUT NOW BELIEVE IRREG VARIOLES+TR CPY+PY. BEDDED SEDS 90.3-90.75 INTERPED AS INTERPILLOW SEDS. BEDDING AT 45 DEGREES
95.40	107.40	CH/DOL		2GYGN						G1		STRONG FABRIC AND CRACKLE VEINING

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**Project** Waratah

107.40 119.20 GOS 4BR

NOT A NICE SHINY GOSSAN  
AS IN MGD002 BUT SOME  
RELICT GALENA  
OBSERVED. 20CM QTZ-  
CARB-GALENA VN(?)  
PRESERVED...I DON'T  
THINK IT IS STOPE FILL.I.E.  
IN SITU

119.20 123.00 FILL/GOS 4BR

INTREPRETED AS STOPE  
FILL RUBBLY ROUNDED  
FRAGS STILL GOSSANOUS

Drill Assays			Project	HoleID								
			Waratah	MGD003								
From	To	Sample ID	Samp Type	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe ppm	Pb ppm	Zn ppm	SG
62.00	64.00	303681	HalfCore	2	112	-0.01		65	56300	8	145	
64.00	66.00	303682	HalfCore	3	327	-0.01		26	70600	12	219	
66.00	68.00	303683	HalfCore	111	124	-0.01		211	67200	6	254	
68.00	70.00	303684	HalfCore	2	226	-0.01		133	68300	-1	121	
70.00	71.00	303685	HalfCore	1	210	-0.01		54	62600	-1	113	
71.00	72.00	303686	HalfCore	1	129	-0.01		81	57200	5	105	
72.00	73.00	303687	HalfCore	1	35	-0.01		52	59200	27	314	
73.00	74.00	303688	HalfCore	1	64	-0.01		28	58500	15	124	
80.00	82.00	303689	HalfCore	2	284	0.01		93	84900	-1	211	
82.00	84.00	303690	HalfCore	2	187	0.01		62	72600	-1	126	
84.00	89.10	303691	HalfCore	3	90	-0.01		39	78500	-1	137	
89.10	90.00	303692	HalfCore	2	150	0.01		42	71000	-1	209	
90.00	91.00	303693	HalfCore	2	176	0.01		62	64300	-1	106	
91.00	92.00	303694	HalfCore	2	150	0.01		51	61200	-1	88	
92.00	93.00	303695	HalfCore	2	-10	-0.01		111	62600	-1	97	
93.00	96.00	303696	HalfCore	2	-10	-0.01		47	66800	3	129	
96.00	97.00	303700	HalfCore	2	96	-0.01		27	58800	-1	150	
97.00	100.00	303701	HalfCore	4	76	-0.01		19	57400	99	531	
100.00	102.00	303702	HalfCore	3	41	-0.01		26	52800	24	209	
102.00	103.00	303703	HalfCore	3	215	0.01		26	59400	246	547	
103.00	105.00	303704	HalfCore	4	188	0.01		32	63300	15	167	
105.00	107.40	303705	HalfCore	3	80	0.01		31	58700	67	332	
107.40	108.70	303706	HalfCore	570	1038	0.04		393	330000	57600	44800	
108.70	110.40	303707	HalfCore	178	154	0.01		61	320000	15100	38400	
110.40	114.90	303708	HalfCore	170	1788	0.06		113	246000	8000	30300	

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114.90	119.20	303709	HalfCore	99	576	0.02	79	222000	6955	25500
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**Collars**                      **Project** Waratah                      **HoleID** MGD004

<b>LoggedBy</b>	TM	<b>Total Depth</b>	122.00	<b>Start Date</b>	
<b>AMG Easting</b>	370001.46	<b>MGA Easting</b>		<b>End Date</b>	
<b>AMG Northing</b>	5410694.034	<b>MGA Northing</b>		<b>Hole Size</b>	HQ
<b>RL</b>	572.20			<b>Drill Type</b>	DD
<b>Local Easting</b>				<b>Drill Rig</b>	P4
<b>Local Northing</b>				<b>Drill Contractor</b>	
<b>Local RL</b>					
<b>Comments</b>					

DHSurvey		Project Waratah		HoleID MGD004		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
	0 -45	107				UNK
	20 -46.5	117	129.4			Single-shot
	50 -46.5	118	130.4			Single-shot
	80 -48	117.5	129.9			Single-shot



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109.80	116.55	srp/ch	3bkgn	same sheared complex of um? And cherty bands. Black chloritic(?) intensely deformed rock being called serp (undiff um)
116.55	117.40	srp	2gn	non veined or sheared soft gn rock semi-featureless
117.40	118.00	srp/ch	3bk	same sheared mix. Crustiform vein with sph forms lower contact alpha angle of 40-45
118.00	122.00	ss/sh	2gy	some black um interlayered sheared good bedding in places @ 60deg to CA (A=45 B=010) strikes N-S and vertical.

Drill Assays			Project	HoleID								
			Waratah	MGD004								
From	To	Sample ID	Samp Type	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe ppm	Pb ppm	Zn ppm	SG
60.00	61.20	303947	HalfCore	4	63	-0.01		133	61200	47	161	
61.20	62.00	303948	HalfCore	18	378	-0.01		74	116000	1251	3763	
62.00	62.80	303949	HalfCore	14	259	-0.01		50	124000	895	2453	
62.80	64.00	303950	HalfCore	6	70	-0.01		861	75100	370	1133	
89.00	90.00	303951	HalfCore	8	620	-0.01		24	107000	1064	5309	
90.00	91.00	303952	HalfCore	29	1326	-0.01		20	127000	4198	7201	
91.00	92.00	303953	HalfCore	30	1415	-0.01		22	114000	2515	6712	
92.00	93.00	303954	HalfCore	70	1849	-0.01		46	79800	4379	10400	
93.00	94.00	303955	HalfCore	58	1582	-0.01		47	119000	4115	16300	
94.00	95.00	303956	HalfCore	155	4774	-0.01		56	114000	7570	14000	
95.00	96.00	303957	HalfCore	14	812	-0.01		39	89100	912	3175	
96.00	97.00	303958	HalfCore	9	678	-0.01		25	78000	778	2979	
97.00	98.30	303959	HalfCore	18	1126	-0.01		29	130000	1117	6956	
98.30	99.35	303963	HalfCore	373	4041	0.02		195	129000	18000	92700	
99.35	100.00	303964	HalfCore	12	700	-0.01		27	88100	804	1701	
100.00	101.00	303965	HalfCore	4	709	-0.01		19	83600	214	1294	
101.00	102.00	303966	HalfCore	3	664	-0.01		22	60800	204	995	
102.00	103.00	303967	HalfCore	23	4239	-0.01		38	96400	2429	12900	
103.00	104.00	303968	HalfCore	1	528	-0.01		23	57800	49	395	
104.00	105.00	303969	HalfCore	1	352	-0.01		30	57400	21	179	
105.00	106.00	303970	HalfCore	1	408	-0.01		29	60400	10	151	
106.00	107.00	303971	HalfCore	1	340	-0.01		49	57700	18	104	



DHSurvey		Project Waratah		HoleID MGD005		
Depth	Dip	Azim Mag	Azim UTM	Azim Local	Surveyed By	Instrument
	0 -57.5	107				UNK
	20 -55	97.5	109.9			Single-shot
	50 -55	97	109.4			unk
	80 -55	98	110.4			unk
	110 -55	97.5	109.9			unk
	137 -55	99	111.4			unk



Drill Assays			Project Waratah		HoleID MGD005							
From	To	Sample ID	Samp Type	Ag ppm	As ppm	Au ppm	Ba ppm	Cu ppm	Fe ppm	Pb ppm	Zn ppm	SG
53.00	56.00	302190	QuarterCore	2	306	-0.01		192	54300	116	387	
56.00	59.00	302191	QuarterCore	1	202	-0.01		438	50400	40	289	
59.00	62.00	302192	QuarterCore	2	197	-0.01		239	48900	205	524	
62.00	65.00	302193	QuarterCore	2	257	-0.01		752	54900	39	330	
65.00	68.00	302194	QuarterCore	2	251	-0.01		209	49300	38	339	
68.00	71.00	302195	QuarterCore	1	273	-0.01		217	45800	39	248	
71.00	74.00	302196	QuarterCore	1	159	0.03		229	46300	11	148	
107.00	109.00	302197	HalfCore	2	358	0.01		123	52500	9	135	
109.00	111.00	302200	HalfCore	2	26	-0.01		187	53000	-1	109	
111.00	113.00	302201	HalfCore	2	174	-0.01		61	52500	261	910	
113.00	115.00	302202	HalfCore	11	633	-0.01		29	50600	816	3716	
115.00	117.00	302203	HalfCore	3	286	-0.01		30	44000	180	876	
117.00	119.00	302204	HalfCore	5	607	-0.01		17	98400	396	4214	
119.00	120.00	302205	HalfCore	35	1269	-0.01		23	113000	7505	18100	
120.00	121.50	302206	HalfCore	6	466	-0.01		17	75900	675	2584	
121.50	122.80	302207	HalfCore	7	402	-0.01		16	92000	785	3790	
122.80	124.00	302208	HalfCore	2	10	-0.01		49	46800	61	219	