

# **The Gnaweeda Greenstone Gold Property Murchison Province, Western Australia**

**Exploration Licences E51/926 and E51/927**

**UTM Zone 50 J 67800-7069000; GDA datum**

**A National Instrument 43-101 Technical Report for:**

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## Table of Contents

1.0	SUMMARY	.....
2.0	INTRODUCTION	.....
3.0	RELIANCE on Other Experts	.....
4.0	PROPERTY Description and Location	.....
4.1	Property Description	.....
4.2	Property Location	.....
4.3	Kent/Archean's Interest in the Gnaweeda Property	.....
4.4	Native Title	.....
5.0	ACCESSIBILITY, Climate, Local Resources, Infrastructure and Physiography	.....
6.0	HISTORY	.....
6.1	ESSO Exploration	.....
6.2	St. Joe Australia / Jewell Investments	.....
6.3	Greenbushes Tin	.....
6.4	Dry Creek Mining	.....
6.5	Dominion Mining (Dry Creek JV)	.....
6.6	Outokumpu Exploration Australia (Dry Creek JV)	.....
6.7	Mines & Resources of Australia	.....
6.8	Newcrest Mining & Newcrest–Australian Gold Resources JV	.....
6.8.1	Newcrest/AGR Aeromagnetic Survey	.....
1993 Aerodata Survey	.....	
1995 Kevron Survey	.....	
MRA (Mines & Resources Australia Pty. Ltd.)	.....	
6.8.2	Newcrest/AGR Drilling	.....
6.9	Bullion Minerals – Chalice Gold Mines	.....
6.10	Teck Cominco Australia – Teck Australia	.....
6.11	Kent-Archean	.....
7.0	GEOLOGICAL Setting	.....
7.1	Regional Geology	.....
7.2	District Geology	.....
7.3	Property Geology	.....
8.0	DEPOSIT Types	.....
8.1	Introduction	.....
8.2	Archean Greenstone Gold	.....
8.3	Archean Gold Deposits in the Murchison Province	.....
9.0	MINERALIZATION	.....
9.2	Turnberry Prospect Mineralization	.....
9.3	St. Anne's Prospect Mineralization	.....
9.4	Bunarra Bore Prospect Mineralization	.....
9.5	Far East Anomaly Mineralization	.....
10.	Exploration	.....
10.1	Introduction	.....
10.2	Re-Interpretation of Historic Geophysical Data	.....
10.2.2	Historic Geophysical Data and Methods used in the Re-evaluation	.....
10.2.3	Recommendations from the Geophysical Re-evaluation Project	.....

11.0 DRILLING.....	
11.1 Introduction .....	
11.2 Phase IIA Drilling by Kent/Archean at Turnberry .....	
11.3 Phase IIA Drilling by Kent/Archean at Bunarra .....	
12.0 SAMPLING Method and Approach .....	
13.0 Sample Preparation, Analyses and Security .....	
14.0 DATA Verification .....	
15.0 ADJACENT properties .....	
16.0 MINERAL Processing and Metallurgical Testing.....	
17.0 MINERAL Resource and Mineral Reserve Estimates .....	
18.0 OTHER Relevant Data and Information.....	
19.0 INTERPRETATION and Conclusions.....	
20.0 RECOMMENDATIONS.....	
21.0 REFERENCES.....	
22.0 AUTHORS' Signatures .....	
23.0 CERTIFICATES .....	
23.1 Certificate of Senior Author .....	
23.2 Certificate of Junior Author .....	
24.0 APPENDICES .....	

## List of Figures

Figure 1: Location of Exploration Licences .....	
Figure 2: Geology and Geological Sub-domains .....	
Figure 3: Location of the Far East Anomaly .....	
Figure 4: Location of 11 High Priority Geophysical Targets .....	
Figure 5: Location of Past RAB and Aircore Drilled at Gnaweeda .....	
Figure 6: Location of all Reverse Circulation Holes .....	
Figure 7: Interpreted Geological Cross Section .....	
Figure 8: Interpreted Geology and Location of Drillholes .....	
Figure 9: Interpreted Geological Cross Section .....	

## List of Tables

Table 1: Summary of Phase IIA Drilling, Bunarra .....	
Table 2: Summary of Phase IIA Drilling, Turnberry .....	
Table 3: Exploration Licenses E51/926 and E51/927 .....	
Table 4: Summary of Archean's Commitments.....	
Table 5: E51/926 Extension of Term Budget 2010-2011 .....	
Table 6: E51/927 Extension of Term Budget 2009-2010 .....	
Table 7: Significant Gold Mineralization in RC Drilling.....	
Table 8: Location and Other Data for the Phase IIA Drill-holes, Turnberry & Bunarra .....	

Table 9: Summary of Significant Gold Intercepts at Turnberry & Bunarra Phase IIA Drilling .....

Table 10: Summary of Check Assays of Bonanza Gold Grades.....

Table 11: Significant Gold Intercepts, Bunarra .....

Table 12: Summary of Phase IIA Drilling, Turnberry.....

Table 13: Summary of Phase IIA Drilling, Bunarra .....

## **Appendices**

APPENDIX A: Gnaweeda Exploration Budget 2010-2011 Program of Work.....

APPENDIX B: 2010-2011 Gnaweeda Budget for Kent/Archean/Teck/Chalice Joint Venture .....

## **List of Photos**

Photo 1: Bunarra Bore Area Showing Level Arid Landscape.....

Photo 2: Historic pit with remnant wooden supports, Bunarra Bore .....

Photo 3: Float of Quartz-Tourmaline Veining from the Bunarra Bore Area .....

Photo 4: Turnberry Hole TD 209-1 at 287.5m .....

Photo 5: Turnberry Hole TD 209-1, Approximately 280m Down Hole Depth .....

## 1.0 SUMMARY

Kent/Archean's Gnaweeda gold property is located 35km NE of the town of Meekatharra in the Murchison Province of Western Australia (Figure 1). It covers a 28km strike length of highly prospective rocks in the Archean-age Gnaweeda Greenstone Belt, and overlies small historic gold workings and several gold prospects discovered by Newcrest Mining in the 1990s. Twenty kilometres to the west, the Meekatharra-Wydney Greenstone Belt hosts the Big Bell, Meekatharra, and Reedy deposits that had a long history of gold production.

Historically, the Gnaweeda area has been explored for both base metals and gold. However, most exploration was focused on gold and was conducted by Newcrest Mining exploring for shallow, saprolite-hosted gold deposits. This work by Newcrest defined extensive zones of gold and arsenic geochemical anomalies under the regolith cover. Some of these anomalous zones exceed 750m in width, and they occur intermittently for more than 15km along strike. Significant gold drill intercepts to date are present at depths ranging from approximately 17m to 280m. Despite the presence of these gold anomalies and areas with sporadic gold mineralization, the reader is cautioned that there is no known mineral or metal resource on the Gnaweeda property. Moreover, the reported historic gold production data from other old mines in the district, including those in the Meekatharra-Wydney Greenstone Belt located 20 km west of Gnaweeda, are not NI 43-101 compliant. The Authors have not verified this historic production; thus it cannot be relied upon.

The Gnaweeda property contains a number of gold-bearing occurrences, including the Bunarra, St. Anne's and Turnberry prospects, as well as the "Far East Anomaly" (Figures 2 and 3). The historic exploration by Newcrest at Gnaweeda consisted primarily of shallow reconnaissance drilling using rotary methods to test geophysical and geochemical targets. This resulted in the discovery of two blind prospects at Turnberry and St. Anne's (Figure 2). The highest grades cut by the Newcrest drilling were in the deeper holes, and best intercepts include 1m @ 21.07 g/t Au from 144m depth, 1m @ 13.22 g/t Au from 294m depth and 2m @ 6.50 g/t from 319m.

After Newcrest terminated its interest in the area, little exploration and no drilling were carried out at Gnaweeda until 2006 when Teck Cominco Australia, now Teck Australia Pty Ltd ("Teck") commenced its program. Limited deep ( $\leq 300$ m) RC drilling by Teck returned significant gold intersections; for example 4m @ 17.77g/t, 5m @ 13.49g/t, 5m @ 11.64g/t, 3m @ 11.87g/t, 3m @ 4.52g/t, 3m @ 4.85g/t and 3m @ 4.39g/t.

Historically, over 60,000m of past drilling have been completed at Gnaweeda, but only 2861m of diamond core was drilled, with 1629m of that conducted by Kent/Archean during their recent Phase IIA diamond drill program completed in March 2010. Very few of these diamond drillholes exceeded 200m in depth, and the lithological and structural controls on the gold mineralization at Gnaweeda are still poorly understood.