

BARRICK (COWAL) LIMITED

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COW.400.05.2748GP

20 December 2011

Mr David Kitto
Director – Mining and Industry Projects
Department of Planning and Infrastructure
23-33 Bridge Street
SYDNEY NSW 2001

Dear David,

RE: Seventh Annual Report of the Independent Monitoring Panel for the Cowal Gold Project (October 2011) – Recommendations

As requested in your letter dated 21 November 2011, please find below a response to the recommendations made by the Independent Monitoring Panel (IMP) in their Seventh Annual Report for the Cowal Gold Project – October 2011 (2011 IMP Report).

2011 IMP Recommendation 1 : CGM should undertake the analysis of the properties of the current soil stockpiles as stated in the CGM letter of 29 January 2011, as soon as is practicable, to further assist in the planning for future rehabilitation.

Barrick (Cowal) Limited (Barrick) will undertake backhoe sampling of the currently stockpiled soil resources at the Cowal Gold Mine (CGM) as soon as practicable (weather permitting). Analysis of the soil stockpiles was unable to be undertaken during 2011 due to very wet conditions which prevented use of the backhoe required for sampling.

Barrick has engaged Dr David McKenzie of McKenzie Soil Management Pty Ltd to conduct agronomic analysis of the soil samples and to provide an interpretation of the soil sampling results. Dr McKenzie has also engaged two 3rd year PhD candidates (Jessica Drake - Australian National University and Adrienne Ryan - University of Sydney) to assist with the soil stockpile sampling study (and dust monitoring programme study - see response to IMP Recommendation 4 below). Carnegie Natives Pty Ltd has also been engaged by Barrick to help facilitate the soil stockpile sampling study. Dr McKenzie will also prepare an appropriate soil stripping procedure for the CGM soil stockpiles to guide appropriate use of the stockpiled materials.

Based on the outcomes of soil stockpile sampling, Barrick will confirm the quantities of topsoil and subsoil currently available for rehabilitation use, update the CGM materials inventory and soil stockpile database and implement amelioration measures (e.g. gypsum application) where necessary to maintain the stockpiled soils.

As detailed in the currently approved CGM Mining Operations Plan (MOP) (January 2011 to September 2102), estimates (as at 21 December 2010) indicate that approximately 1,728,167 m³ of topsoil and 2,083,400 m³ of subsoil are available for future rehabilitation use. These estimates were based on surveying results and mapping of the soil stockpiles conducted using a helium blimp in May 2010.

An action plan and implementation timetable for the measures proposed above is provided in Attachment A. 2011 IMP Recommendation 2: CGM should continue to evaluate the future needs for cover materials for rehabilitation including the subsoil material previously selected and stored for future use. It is recommended that assessment of this material be included in any future field and column trials and that growth of roots into the subsoil in existing trial plots on the Southern Waste Emplacement be explored and the salinity of this subsoil material be determined. Additionally CGM should attempt to obtain an estimate of the salinity range of materials previously saved for rehabilitation; this data will assist the site in calculating the volumes and planning appropriate layering of satisfactory materials for root zone construction through to mine closure.

CGM should also finalise and implement the Northern Waste Emplacement Trials over the next year.

Barrick will continue to evaluate the availability of cover materials likely required for future rehabilitation use (including the availability of currently stockpiled subsoil materials) based on the results of the soil stockpile sampling programme, the updated materials inventory and waste rock production schedule outlined in the CGM MOP.

Subsequent to sampling and analysis of the CGM's stockpiled soils (see response to IMP Recommendation 1 above), Barrick will obtain an estimate of the salinity range of the stored materials to assist in planning the appropriate layering of the materials. Analysis of the salinity of the stored materials and preparation of an appropriate soil stripping procedure will be undertaken by Dr McKenzie (see response to IMP Recommendation 1).

Prior to using subsoil materials in future field and column trials undertaken at the CGM, independent laboratory analysis of the material will be conducted and the results (including the salinity of the material) will be documented.

Barrick currently engages DnA Environmental to monitor rehabilitated areas and conduct rehabilitation field trials at the CGM. Barrick will commission DnA Environmental to include within the rehabilitation monitoring programme conducted at the existing rehabilitation trial plots located on the Southern Waste Rock Emplacement, sampling and analysis of subsoil materials. Sampling will be undertaken using standard soil sampling techniques with a core sampler. Analysis of the subsoil material will be conducted by an independent laboratory and include measurement of Electrical Conductivity to determine soil salinity. The results of this sampling will be included in DnA Environmental's annual rehabilitation monitoring report.

Assessment of plant root growth in the subsoil materials of the existing rehabilitation trial plots located on the Southern Waste Rock Emplacement will also be included in the monitoring programme conducted by DnA Environmental. DnA Environmental will detail the methodology for assessing plant root growth and the monitoring results in their annual rehabilitation monitoring report.

Barrick also engages Carnegie Natives Pty Ltd to conduct column trials using shallow and deeprooted tree and shrub species in both tailings and waste rock materials from the CGM. Plant root growth is currently monitored by Carnegie Natives Pty Ltd in these column trials. Plant root growth will continue to be monitored in future column trials conducted using subsoil materials.

An action plan and implementation timetable for the measures proposed above is provided in Attachment A.

Northern Waste Rock Emplacement Additional Replicate Plot Trials

Barrick has finalised with DnA Environmental the design for additional replicate trial plots to be established on the outer batters of the Northern Waste Rock Emplacement, adjacent to the D1 contained water storage. DnA Environmental's design is described in the report 'Revised experimental design and implementation plan – Northern waste emplacement rehabilitation trials for Cowal Gold Mine Barrick (Cowal) Limited November 2011'. DnA Environmental's report:

- outlines the aim of the additional replicate rehabilitation trials;
- describes the landform construction philosophy (including landform preparation procedures) and topsoil and subsoil stockpiling protocols;
- summarises the revegetation strategy; and

 details the design of the replicate plots, quantities of materials required and discusses the proposed monitoring methodology.

DnA Environmental's report also provides a recommended schedule of works to guide implementation of the rehabilitation trials (including appropriate timing for topsoil re-spreading and re-seeding to coincide with Autumn rainfall) (refer to Attachment B). Barrick anticipates commencement of works in accordance with DnA Environmental's design and implementation plan in early 2012, with replicate plots to be established by April 2012.

Monitoring of the replicate trial plots will also be undertaken by DnA Environmental and an annual weeds survey of all rehabilitation trials will be undertaken by Carnegie Natives.

An action plan and implementation timetable for the measures proposed above is provided in Attachment A.

2011 IMP Recommendation 3 : CGM should continue to monitor the status of rehabilitation on the tailings walls to provide data to confirm that the current preferred rehabilitation approach will lead to a cover which is stable and sustainable.

Barrick will continue to engage DnA Environmental to monitor CGM rehabilitation and prepare an annual rehabilitation monitoring report that will evaluate the status of the rehabilitation at the CGM (including on the tailings storage facility batters). DnA Environmental will continue to use the Ecosystem Function Analysis (EFA) monitoring methodology to assess the performance of rehabilitation at the CGM.

Barrick will also prepare a report in the first quarter of 2012 which will detail the results of all rehabilitation trials conducted at the CGM to date. The report would aim to formally document the outcomes of all CGM rehabilitation trials, and based on these outcomes, propose the preferred surface cover system concepts most likely to provide successful, stable and sustainable rehabilitation of the final landforms at the CGM.

An action plan and implementation timetable for the measures proposed above is provided in Attachment A.

2011 IMP Recommendation 4 : CGM should ensure that new bulk standard samples of soil and waste materials are prepared for use as an ongoing check on metal and other analyses conducted at various laboratories.

Barrick has conducted bulk standard sampling of soil and waste materials to monitor for metals and other relevant parameters and has dispatched this new sample to an independent laboratory (National Measurement Institute, Sydney) for analysis. The results of this sampling will be used to verify results from the dust monitoring programme undertaken at the CGM.

An action plan and timetable for implementation of the measures outlined in this response is provided in Attachment A. The schedule of works for implementation of the Northern Waste Rock Emplacement additional replicate plot trials outlined in DnA Environmental's (2011) 'Revised experimental design and implementation plan – Northern waste emplacement rehabilitation trials for Cowal Gold Mine Barrick (Cowal) Limited November 2011' is provided in Attachment B.

As requested, a copy of the 2011 IMP Report will be placed on Barrick's website by the end of January 2012.

Please do not hesitate to call should you have any queries.

Yours sincerely BARRICK (COWAL) LIMITED

GARRY PEARSON **Environmental Manager**

Copies:

George Mobayed (DP&I)

Emer. Prof. L. Clive. Bell (IMP) Dr. Craig Miller (IMP)

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ATTACHMENT A

ACTION PLAN AND IMPLEMENTATION TIMETABLE FOR 2011 IMP RECOMMENDATIONS

Action Plan and Implementation Timetable for 2011 IMP Recommendations

notebnoommond district		Action Plan	Timing
ZOLI IMA RECOILLIE	1	Conduct hackhoe campling of soil stockpiles (weather permitting).	January 2012
2011 IMP Recommendation 1 :		Conduct Describe company of confederal samples.	January/February 2012
CGM should undertake the analysis of the properties of the current soil stockpiles as stated in the CGM letter of 29 January 2011, as soon as is practicable, to further		Dr McKenzie to interpret sampling results and prepare an appropriate soil stringing procedure for stockpiled soils at the CGM.	March 2012
assist in the planning for future rehabilitation.		Confirm the quantities of topsoil and subsoil available for rehabilitation use and undate CGM materials inventory with results from soil stockpile sampling.	March 2012
		Arrange for amelioration measures to be conducted (if necessary).	March 2012
2011 IMP Recommendation 2 : CGM should continue to evaluate the future needs for		Evaluate the availability of cover materials likely required for future rehabilitation use based on results of stockpiled soils sampling and updated materials inventory.	March 2012 - ongoing
cover materials for rehabilitation including the subscut material previously selected and stored for future use. It is recommended that assessment of this material be		Dr McKenzie to provide an estimate of the salinity range of all stored materials (including topsoil and subsoil materials).	March 2012
included in any future field and column trials and that growth of roots into the subsoil in existing trial plots on the explored and the		Conduct independent laboratory analysis of subsoil materials prior to use in future field and column trials and document the salinity of the material.	Ongoing
salinity of this subsoil material be determined. Additionally CGM should attempt to obtain an estimate of the salinity range of materials previously saved for rehabilitation; this data will assist the site in calculating the volumes and planning appropriate layering of		DnA Environmental to include sampling and analyses of the subsoil material in the monitoring programme conducted at the existing rehabilitation trial plots on the Southern Waste Rock Emplacement. Soil analyses to include measurement of salinity. DnA Environmental to include results of the soil sampling in annual rehabilitation monitoring report.	January 2012 - ongoing
satisfactory materials for root zone construction unough to mine closure. CGM should also finalise and implement the Northern		DnA Environmental to also assess plant root growth in the subsoil materials at the existing rehabilitation trial plots on the Southern Waste Rock Emplacement and include description of methodology and results in annual rehabilitation monitoring report.	
Waste Emplacement Trials over the next year.		Carnegie Natives Pty Ltd to monitor plant root growth in future column trials conducted using subsoil materials and document results.	January 2012 - ongoing
	•	Commence implementation of additional replicate trial plots on the outer batters of the Northern Waste Rock Emplacement, adjacent to the D1 contained water storage. The schedule of works for implementation of the rehabilitation trials outlined in DnA Environmental's (2011) 'Revised experimental design and implementation plan – Northern waste emplacement rehabilitation trials for Cowal Gold Mine Barrick (Cowal) Limited November 2011' is provided in Attachment B.	January 2012
		Establish additional replicate plots on the outer batters of the Northern Waste Rock Emplacement adjacent to the D1 contained water storage.	April 2012

Action Plan and Implementation Timetable for 2011 IMP Recommendations (continued)

2011 IMP Recommendation	Action Plan		Timing
2011 IMP Recommendation 3:	 DnA Environmental to continue to monitor performance of CGM rehabilitated 	e of CGM rehabilitated hodology.	Ongoing
CGM should continue to monitor the status of rehabilitation on the tailings walls to provide data to	• DnA	monitoring report.	December 2012
confirm that the current preferred rehabilitation approach will lead to a cover which is stable and sustainable.	Barrick to commence preparation of draft report detailing the results of all rehabilitation trials conducted at the CGM to date.	ailing the results of all	January 2012
	Barrick to finalise CGM rehabilitation trials report.		March 2012
2011 IMP Recommendation 4:	Conduct bulk standard sampling of soil and waste materials to monitor for metals and other relevant parameters.	naterials to monitor for	December 2011
CGM should ensure that new bulk standard samples of soil and waste materials are prepared for use as an			December 2011
ongoing check on metal and other analyses conducted a	Varify results from bulk standard sampling with dust monitoring programme.	nitoring programme.	February 2012

ATTACHMENT B

SCHEDULE OF WORKS FOR IMPLEMENTATION OF NORTHERN WASTE ROCK EMPLACEMENT ADDITIONAL REPLICATE PLOT TRIALS (DnA Environmental, 2011)

Schedule of Works for Implementation of Northern Waste Rock Emplacement Additional Replicate Plot Trials

Project requirements	2011	2011	J A 2011	S 2011	2011	Z011	2011	2012	2012	2012	2012 2012	2012	2012	2012
Engage reputable seed collector						1								
Order native tubestock from reputable native plant nursery for planting in autumn														
Identify suitable native pastures for harvest and ensure they will remain uncrazed to maximise harvest yield														
Arrange local hay contractor to bale native pasture hay in spring/autumn harvest periods														
Arrange native grass seed harvester to harvest native pasture hay in enring/autumn harvest periods														
Liaise with Mining department to specify experimental design, roles and seponsibilities and schedule responsibilities and schedule														
Construct primary landform					1	1	1	-	-					
Ensure native seed collection is underway						-							1	
Harvest and translocate native pasture hav to site						-		1					-	
Harvest native grasses		-		1	1	+				-				
Spread run of mine oxide rock (rock underlay)										-		1	1	1
Apply gypsum at recommended rates (standard across all sites)				4	-	+	+	-				1	1	1
Spread topsoil according to the experimental design (Note: topsoil should not be spread until all experimental treatments materials are ready for spreading out).														

Schedule of Works for Implementation of Northern Waste Rock Emplacement Additional Replicate Plot Trials (continued)

Project requirements	2011	2011	A 2011	2011	2011	Z011	2011	2012	2012 2012	2012	2012	2012	2012 2012 2012	2012
Cross-rip using dozer to create troughs and banks														
Spread out native pasture hay at appropriate densities according to the experimental design														
Sow cover crop at recommended rate (standard across all sites)														
Pre-treat native seed as required (seek expert advice)														
Prepare seed mixes, record weight of each species applied for later reference														
Allow one month settling period prior to native seed application treatments.														
Apply seed according to the experimental design														
Plant tubestock according to the experimental design (after suitable rainfall event)														
Consultants/University to undertake baseline monitoring (on completion of set up)														
Consultants/University to undertake 6mths (and thereafter annual) monitoring														Noviyr
Implement weed control and maintenance (eg replace tubestock) as required							11							Nov/yr as required

Source: DnA Environmental (2011).