

INDEPENDENT PRICING AND REGULATORY TRIBUNAL

REVIEW OF WATER PRICES FOR THE SYDNEY CATCHMENT AUTHORITY
Tribunal Members

Dr Michael Keating AC - Chairman

Mr James Cox

Ms Sibylle Krieger Held at the offices of IPART
Level 8, 1 Market Street, Sydney, NSW 2000

On Wednesday, 19 November 2008, at 1.00pm

19/11/08 1

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1 WELCOME AND INTRODUCTION

2
3 THE CHAIRMAN: I would like to begin by welcoming you to
4 this public hearing conducted by the Independent Regulatory
5 and Pricing Tribunal into water prices for the Sydney
6 Catchment Authority (SCA) in the period commencing from
7 1 July 2009.

8
9 I should begin by introducing ourselves. I am
10 Michael Keating. I am the chairman of the Tribunal. I am
11 joined on this review by my fellow Tribunal members. They
12 are Sibylle Krieger, on my right, and Mr Jim Cox, on my
13 left. Jim, of course, as I suspect everyone here knows, is
14 the chief executive officer of the Tribunal.

15
16 It does not seem that long ago that we conducted a
17 review of the SCA's prices. That review was conducted
18 during the 2004 financial year and the pricing
19 determination made at that time covered the period from
20 1 October 2005 to 30 June 2009.

21
22 This present investigation being conducted by the
23 Tribunal will cover a period commencing from 1 July 2009.
24 The Tribunal has not yet decided on the length of the
25 determination period and we are open to suggestions in this
26 regard.

27
28 I note that the SCA and several other stakeholders
29 have suggested that the determination be for three years.
30 That, of course, would mean that the determination would
31 expire on 30 June 2012, which would be in line with Sydney
32 Water's current price path.

33
34 In that case, the SCA and Sydney Water determinations which
35 were reviewed in 2005 would come back together again.
36 The reason they separated, if you like, was that given the
37 investment made in desalination and other factors, Sydney
38 Water's price was reopened last year. They therefore got
39 in a year early and got out of the line with the SCA.
40 While we have not made up our minds, there is a fairly
41 obvious reason why it would be desirable to review the SCA
42 and Sydney Water at the same time in the future.

43
44 At the time of that previous determination back in
45 2005, New South Wales was in the midst of a very serious
46 drought. As someone who does not live in Sydney, we are
47 still in a serious drought in my area, but it is perhaps

1 less so in Sydney. Anyway, the expenditure program of the
2 SCA was heavily influenced by the need at that time to
3 secure Sydney's water supply and to make investments to
4 cater for a growing population as part of the Government's
5 metropolitan water plan.

6
7 At the time of the 2005 determination, it was
8 envisaged that the SCA would invest in extensive works on
9 the Shoalhaven transfer scheme to augment Sydney's supply
10 of water in that way, and provision was also made for more
11 work on the Prospect Reservoir and the construction of the
12 Fish River water supply scheme pipeline to increase supply
13 in the Blue Mountains.

14
15 At the 2005 determination, IPART changed the balance
16 of the fixed and volumetric components of the SCA's charges
17 to Sydney Water by increasing the relative size of usage or
18 volumetric charge compared with the fixed charge. This was
19 done, I believe, at the request of the SCA at that time,
20 and the intention was to set the SCA volumetric charge with
21 reference to the SCA's long run marginal cost and that
22 would send a pricing signal to Sydney Water to help it
23 achieve the Government's demand management objectives.

24
25 Since the 2005 determination, the New South Wales
26 Government has decided not to proceed with raising the dam
27 wall at Tallowa and that has changed the scope and timing
28 of the Shoalhaven transfer scheme. However, in response to
29 the Government's metropolitan water plan, the SCA has
30 invested in several projects that were not forecast at the
31 last price review, including the development of groundwater
32 sources.

33
34 In recent times, the available water supply in Sydney
35 has increased. In fact, I understand that dam storages are
36 at about 65 per cent of capacity - up from about 36 per
37 cent in January 2007. The Government has also decided to
38 construct a desalination plant. The plant's current
39 capacity of 91 gegalitres per annum equates to
40 approximately 18 per cent of the SCA's supply to Sydney
41 Water in 2006-2007. Nevertheless, despite this improved
42 situation, the issue of the security of water supplies will
43 no doubt feature in this inquiry.

44
45 As part of this investigation, the Tribunal released
46 an issues paper back in July this year which set out the
47 key aspects of the review process. The issues paper

1 outlined some of the matters the Tribunal considers
2 important to this review, its general approach to price
3 setting, the matters that IPART's Act says that it must
4 take into account in conducting a price review, and a draft
5 timetable for the review.

6
7 In the issues paper, the Tribunal called for
8 submissions from the SCA, its customers and other
9 stakeholders.

10
11 I want to record now that we are appreciative of those
12 who have taken the time to make a submission. Some of the
13 organisations that have made submissions to the review will
14 be presenting a case to this hearing today. Of course, all
15 the submissions received will be carefully considered by
16 the Tribunal in developing its findings and
17 recommendations.

18
19 The Tribunal considers this to be a very important
20 investigation. Prices should provide the SCA with
21 sufficient revenue to undertake prudent investment and
22 carry out its catchment management and water supply
23 functions and responsibilities efficiently. At the same
24 time, the Tribunal is conscious that any changes in the
25 SCA's bulk water costs to Sydney Water as a result of this
26 determination will necessarily be passed through to Sydney
27 Water's customers through their fixed charge. Any changes
28 to prices that are paid by local councils are also likely
29 to flow through to end consumers.

30
31 An important issue for this review, which has been
32 raised by several stakeholders and by the SCA itself, is
33 whether the structure of the SCA's charges should be
34 changed. As I have already hinted, the Tribunal's usual
35 approach to setting water prices has been to set the
36 volumetric charge with reference to an estimate of the
37 marginal cost of supply. When we set the volumetric charge
38 in this way, it then signals to consumers the costs imposed
39 or avoided if they increase or reduce their water
40 consumption.

41
42 For this review, the Tribunal will need to look at the
43 structure of prices and the appropriate level of SCA's
44 volumetric charges to Sydney Water and to the local
45 councils. In doing so, it will need to consider the
46 signalling effect of the SCA's prices, including the role
47 these prices play in signalling the need for future supply

1 augmentation, on the one hand, and the incentives that they
2 provide to the SCA's customers to invest in water
3 conservation measures and to obtain water from the least
4 cost combination of supply sources available, on the other
5 hand.

6
7 The Tribunal will also need to consider the scope for
8 bulk water purchasers and their customers to respond to
9 these price signals, taking into account factors such as
10 the desalination plant and its operating regime and the
11 potential for the development of alternative sources of
12 supply under the Water Industry Competition Act.

13
14 In this context, I also note that, over recent years,
15 a lot has been said about scarcity pricing, where the price
16 of water above what is sometimes termed a "lifeline
17 allowance" or a "basic allowance" is allowed to vary and to
18 balance supply with demand. It has been suggested,
19 admittedly by economists, that this type of approach would
20 obviate the need for water restrictions. The Tribunal
21 would be interested in hearing the views on scarcity
22 pricing or a pricing regime where price levels vary with
23 available supplies within the SCA's dam system.

24
25 On the other hand, some of you may take the view that
26 we are not facing scarcity and that the need for scarcity
27 pricing in those circumstances is very much reduced.

28
29 To sum up, this hearing is a very important part of a
30 broader price review process. It provides an opportunity
31 for the Tribunal to hear from the SCA, its customers and
32 other key stakeholders. It provides an opportunity for us
33 in particular, and perhaps some of the other stakeholders,
34 to question some of the propositions that have been put
35 forward.

36
37 The submission made by the SCA together with the other
38 submissions and consultants' reports that were commissioned
39 are available to the public through the Tribunal's website.

40
41 I would now like to say a few words about the process
42 for the conduct of this hearing. You should have available
43 to you a timetable which indicates the order in which
44 organisations will be presenting before the Tribunal. For
45 each organisation appearing, a presentation time has been
46 allowed. We will try to stick to that. This will be
47 followed by a period of questions, which will be more

1 difficult to stick to - I do not want to cut good questions
2 off, of course. I would ask the presenters at least to
3 stick to the allotted time.

4
5 Assisting the Tribunal today are three Tribunal
6 secretariat members: Colin Reid, who is seated immediately
7 on the right; Amanda Chadwick, who is the program manager;
8 and Matt Edgerton, who is the senior analyst for this
9 program. They will be asking the questions mainly with a
10 bit of interruption from the Tribunal where necessary.

11
12 At the conclusion of all the scheduled presentations, I
13 will make time available for members of the public to
14 express their views and opinions on the proposals that have
15 been put forward before us by the SCA and by others here at
16 this hearing.

17
18 We will now commence with the representatives from the
19 SCA. I would ask each of the presenters when they come
20 forward to state, for the record, their names, the
21 organisation which they represent and their position in the
22 organisation then make your presentation. Thank you very
23 much. Over to the SCA.

24
25 SYDNEY CATCHMENT AUTHORITY

26
27 MR BULLEN: Thank you. My name is Michael Bullen. I am
28 chief executive of the Sydney Catchment Authority and
29 assisting me here today are:

30
31 MR RASIAH: Kumar Rasiah, principal economist.

32
33 MS GREENAWAY: Simone Greenaway, general manager
34 corporate strategy and government.

35
36 MR BULLEN: We will start with our overview. I wish to
37 spend a little bit of time running through the SCA's area
38 of operations to ensure people are clear on our
39 responsibilities. The water supply system that we manage
40 covers five catchments, the Warragamba, Upper Nepean,
41 Woronora, Blue Mountains and the Shoalhaven. The
42 catchments extend over 16,000 square kilometres and the SCA
43 also buys water from the Fish River scheme - up to 3,600
44 megalitres per annum.

45
46 In total, the SCA manages 15 major water supply
47 storages or 21 prescribed dams under the Dam Safety Act.

19/11/08 6 SYDNEY CATCHMENT AUTHORITY
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1 Those storages have a combined capacity of 2,608,730
2 megalitres, and the yield of the catchments is currently
3 estimated at around 570 gigalitres per year. To put
4 that into context, last year the SCA supplied about
5 479 gigalitres to Sydney Water and its other customers.

6
7 There are 3,700 square kilometres of inner catchment
8 lands that are proclaimed as special areas and the
9 activities that occur on those lands are subject to the
10 SCA's direct regulatory control. Most of the land in the
11 Warragamba special area is owned and managed under the
12 National Parks and Wildlife Act. Similarly for the
13 Shoalhaven, only 16 square kilometres of the total 5,750
14 square kilometre catchment, or about 0.3 of a per cent, is
15 declared as a special area.

16
17 As people are aware, a range of land uses exists between
18 the Warragamba and Shoalhaven catchments, including
19 residential areas, urban centres, small-lot rural
20 subdivisions and a range of intensive agricultural
21 industries such as livestock, vegetable growing and poultry
22 farming. There is also coalmining, forestry, and there are
23 the public roads and utility easements throughout the
24 catchments.

25
26 Our approach to protecting raw drinking water quality
27 in the catchments is based on preventing risks to that
28 drinking water quality by minimising the impacts of new
29 development and current activities on raw drinking water
30 quality, improving water quality during specific events,
31 and repairing impacts on water quality from erosion, river
32 degradation and land clearing.

33
34 To very quickly touch on the water supply network, the
35 Warragamba catchment is the second largest catchment. It
36 includes the regional centres of Goulburn, Moss Vale,
37 Mittagong and Lithgow. Warragamba Dam forms Lake
38 Burragorang, a 75-square kilometre lake with 354 kilometres
39 of foreshore. That is the largest urban supply concrete
40 dam in Australia and it is capable of holding just over
41 2 million megalitres of water - almost four times the
42 capacity of Sydney Harbour.

43
44 Warragamba Dam currently supplies over 80 per cent of
45 Sydney's drinking water needs. It is delivered by
46 pipelines to the Prospect water filtration plant and during
47 extreme drought, the Warragamba Dam deep water pumping

19/11/08 7 SYDNEY CATCHMENT AUTHORITY
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1 station, commissioned in this current pricing
2 determination, can be used to boost these supplies. On the
3 way to Prospect, water is drawn off for supply to the
4 Warragamba and Orchard Hills water filtration plants,
5 Penrith, Emu Plains and the Lower Blue Mountains are
6 supplied from that plant.
7
8 The Upper Nepean catchment, which is 900 square
9 kilometres, includes Cataract, Cordeaux, Avon and Nepean
10 dams - all the metropolitan dams.
11
12 The Woronora catchment covers an area of approximately
13 75 square kilometres that drains to Woronora Dam with a
14 total operating storage of just under 72,000 megalitres.
15 The water supplies from this dam are treated at the
16 Woronora water filtration plant for distribution to Sydney
17 Water's customers.
18
19 The Shoalhaven system comprises three major storages:
20 Tallowa Dam, Fitzroy Falls Reservoir and Wingecarribee
21 Reservoir, which is within the Warragamba catchment.
22 Tallow Dam, on the confluence of the Shoalhaven and
23 Kangaroo Rivers, has an operating storage of 35,300
24 megalitres from a 5,750 square kilometre catchment area.
25
26 The Blue Mountains water supplies are harvested from
27 five water storages: Medlow Dam, Greaves Creek Dam and
28 Cascade Dams. They have a total catchment of 12 square
29 kilometres and operating storage capacities of
30 approximately 2,790 megalitres. Supplies in the Upper Blue
31 Mountains can be supplemented and are supplemented from
32 an entitlement in Lake Oberon under the Fish River water
33 supply agreement.
34
35 The last storage is Prospect, which has capacity for
36 33,000 megalitres and can be drawn on to supplement the
37 Warragamba pipeline and Upper Canal flows or as an
38 emergency supply. A new raw water pumping station
39 provides enhanced access to water in the reservoir in the
40 event of a prolonged need and Sydney's water supply can be
41 sourced wholly from the reservoir for a number of weeks, if
42 necessary, which is part of the flexibility and the
43 variability of the supply.
44
45 Turning to the history of the organisation, I'm sure
46 people are aware that the SCA was established after the
47 1998 water quality incident and the 1998 Sydney Water

1 inquiry. The inquiry considered the future directions for
2 the management of the drinking water catchments, and the
3 inquiry's recommendations included establishing appropriate
4 management and regulatory structures to ensure that the
5 catchments are not compromised.
6
7 We are charged with the tasks of ensuring the
8 catchments are managed to supply high-quality bulk water,
9 optimise water quality, protect the environment and
10 minimise risk to public health from the water supply.
11
12 To touch on some of the challenges that we've had over
13 the last three years, the challenges facing the Sydney
14 Catchment Authority have changed since its establishment
15 due to the impacts of drought, the introduction of a
16 competitive environment for water supply and an increase in
17 operating costs with increased transfers from the
18 Shoalhaven.
19
20 As a result of the period of intense drought, there
21 has been a growing acceptance in the water sector of the
22 importance of diversification in water supply sources to
23 ensure security of supply in times of scarcity. This
24 diversification will lead to improved reliability of water
25 services, and by 2010 Sydney Water will have a
26 250 megalitre per day desalination plant which may impact
27 on the demand for the SCA's water services.
28
29 As part of the review of the metropolitan water plan,
30 the operating rules for the desalination plant and the
31 supply arrangements will be considered.
32
33 The Shoalhaven scheme has been used during the drought
34 to supplement supply. Transfers from the Shoalhaven have
35 provided a significant drought buffer, and at the height of
36 the drought storages would have been around 13 per cent had
37 they not been buffered by an additional 20 per cent from
38 the Shoalhaven system.
39
40 The transfers have a significant cost for energy usage
41 and the SCA's operating costs have significantly increased.
42 During the drought, our water sales have been down by
43 12 per cent and pumping costs over the four-year price
44 period have been close to \$35m.
45
46 The overall impact on the SCA's financial performance
47 has meant reduced returns to Government and a return on

1 assets of around 5 per cent compared to IPART's target of
2 6.5 per cent under the previous determination.

3
4 Level 3 water restrictions were introduced in June
5 2005 and have had a significant impact on demand, and, as
6 people will be aware, the Minister for Water announced a
7 moratorium on pumping from the Shoalhaven on 7 November
8 2009. We can touch on that a little bit later during the
9 course of the presentation.

10
11 How has the SCA responded to the challenges and what
12 are some of the issues that we need to address going
13 forward? Firstly, we have a statutory framework that is
14 established through our Act, the regulations and the
15 operating licence. Through our corporate responses we have
16 a risk management framework and an asset strategy, a water
17 quality risk management framework and a five-year corporate
18 plan bringing all of these elements together.

19
20 Under the corporate plan, we have four key result
21 areas. Firstly, high-quality water supply where our raw
22 water deliveries meet the agreed quantity and quality
23 specifications; that dams and delivery systems are safe,
24 efficient and well operated and maintained; that the water
25 supply system operates successfully during droughts,
26 floods, fires and other incidents; and that water supply
27 planning and asset investment keeps pace with current and
28 future requirements.

29
30 As an example of that, from August 2007 until towards
31 the end of 2007 there was the first major outbreak of a
32 blue/green algal bloom on Warragamba Dam, and even though
33 that bloom was there, we successfully managed to deliver
34 water within standard to Sydney Water by the variability
35 and the flexibility we have in the system by being able to
36 draw water from below where the algal zone was.

37
38 The second key result area is around sustainable
39 catchments. Objectives there are: reduced environmental
40 degradation to make sure we improve water quality; reduced
41 priority pollutants entering the system; reduced
42 environmental impacts of our operations; and that
43 development and activities comply with sustaining the
44 catchments, the regional plan for the drinking water
45 catchments of Sydney and adjacent regional areas. We need
46 to make sure that our lands are managed to contemporary
47 standards and that there is an improved awareness within

1 the community about how they can contribute to protecting
2 water quality.

3
4 The next key result area is in the area of strategic
5 partnerships. We work closely with local governments to
6 implement sustaining the catchments, the regional plan for
7 the drinking water catchments. We also work with the
8 catchment management authorities, local government and
9 catchment communities to implement a healthy catchments
10 program. By working closely with the catchment
11 management authorities we are able to ensure that we obtain
12 a greater benefit for the funding that we provide through the
13 catchment management authorities and leverage into greater
14 results.

15
16 We work with other government agencies to review and
17 deliver under the metropolitan water plan, and we work
18 closely with the Department of Environment and Climate
19 Change to manage the special areas of water quality and
20 biodiversity.

21
22 Our business objectives, as a key result area, are
23 that people are safe at the Sydney Catchment Authority;
24 that we have the right people with the right skills at the
25 right time; that we have a rigorous risk-management
26 framework; that our tools, systems and knowledge keep pace
27 with our business; that we manage to meet a statement of
28 financial framework that is agreed on an annual basis with
29 Treasury; and that the community are confident about how
30 we make our business decisions.

31
32 Our risk management framework. Firstly, what this
33 chart provides is how we identify and address strategic
34 risks at the corporate level. We have broken that down
35 into three categories: what are our water quality risks;
36 what are the risks to infrastructure and the reliability
37 of supply; and what are our business risks? It has been
38 developed under Australian Standard 4360 and provides an
39 overarching methodology to ensure consistent risk
40 assessment and management.

41
42 It provides some examples of the risk assessment tools
43 used at the operating level of the organisation consistent
44 with that standard. Our risk management framework is
45 regularly monitored and reviewed by the board's asset risk
46 committee to ensure that it remains contemporary and is
47 addressing the business risks.

1
2 The SCA faces a number of commercial business and
3 operating risks that have the potential to impact on our
4 performance, and our responses to those issues include the
5 identification of various policy and other drivers for risk
6 management, including the risk management policy, our
7 framework, formal water quality risk assessments and
8 prioritising systems and a wider range of operational risk
9 management tools for various functional areas within the
10 organisation.

11
12 One of the critical areas that the organisation is
13 charged with is how we improve the health of the catchment
14 as it relates to water quality. We've been working over
15 the last three to four years on how we can get some rigour
16 and some process around those interventions in the
17 catchment. This framework provides the process that we are
18 currently working through to develop our healthy catchments
19 program as the ultimate outcome.

20
21 Firstly, starting from the top, we consider the
22 relevant legislation, our operating licence and our
23 corporate strategies. We then use inputs from spatial
24 information such as landscape, land use - such as forestry,
25 mining activities, grazing and so on - the latest science
26 and research about the potential risks from those land
27 uses, and up-to-date catchment information from our offices
28 and information collected from the catchment.

29
30 That has been fed into a catchment decision support
31 system that we have been working on over the last few years
32 and is now able to be used to inform our prioritisation
33 process as to where our interventions should occur.

34
35 That prioritisation process picks up the outputs from
36 the catchment decision support system and deals with how
37 they may be considered in terms of Government priorities;
38 what the risk analysis is in relation to how they may
39 impact on water within the storages; what our existing
40 programs are - because obviously over the last 10 years we
41 have had a number of existing programs - and how we might
42 shift from where we are now to where we need to be in the
43 future; what some of the Government planning initiatives
44 are - for example, around the southwest growth sector and
45 how that might impact on our authorities; and who has
46 ultimate responsibility for the particular issue that needs
47 to be addressed. Is it an SCA responsibility or is it a

1 regulatory requirement that is best managed through
2 councils or through the Department of Environment and
3 Climate Change?

4
5 What are the opportunities around partnership? Can we
6 work with local government, can we work with catchment
7 management authorities to deliver these interventions?
8 Then, it also picks up, as I said, up-to-date catchment
9 knowledge. All of those factors are considered to develop
10 our healthy catchments program.

11
12 If you like, the healthy catchments program consists
13 of two sides: the planning side, which is about the
14 regulatory planning, local environment plans and our
15 activities under the EP&A Act; and then the catchment
16 interventions around education, compliance, programs such
17 as our riparian management assistance program, any
18 incentives we may wish to throw in there in relation to
19 applications from interest groups around particular
20 projects, and then land management within the SCA land
21 itself.

22
23 Those programs will then be developed and evaluation
24 methodologies will be designed for those programs, which
25 will then be reported as a requirement of our operating
26 licence in our annual catchment activities report, and
27 obviously that loop is closed in terms of feeding back in
28 terms of the development of subsequent new programs.

29
30 An example of that program is the accelerated sewerage
31 program which leverages both SCA, council and the
32 Department of Water and Energy, country, town and water
33 supply and sewerage program funding. A total of \$102m
34 will be invested on sewerage treatment plant upgrades in
35 the catchment as a result of the SCA's \$37.7m investment
36 to accelerate the works under the accelerated sewerage
37 plan.

38
39 To touch on some of our current price path
40 achievements, as has been indicated, the operating
41 environment has changed considerably over the past four
42 years. There were some Government decisions around the
43 cessation of the raising of Tallowa Dam in the Shoalhaven
44 system, but, that being said, there have been a number of
45 projects that we have delivered on over the last project's
46 pricing path, such as the deep water access projects at
47 Warragamba and Nepean Dams.

1
2 These were delivered on time and on budget in 2006.
3 They were delivered in partnership with the Department of
4 Commerce and received the 2007 Premier's Gold Award in
5 recognition of their innovation and importance to New South
6 Wales. The projects have increased available storage by
7 199 gigalitres and system yield by nearly 40 gigalitres per
8 year.
9
10 The Prospect raw water pumping station: we
11 successfully commissioned and completed the Prospect raw
12 water pumping station, which provides back-up supply of up
13 to 30 days should supply from the other dams be
14 interrupted. The pumping station was a key recommendation
15 of the 1998 Sydney Water inquiry. It was completed on time
16 and on budget and, during a period of elevated turbidity in
17 mid-2007, the new pumping station was used for the first
18 time to supply water to Prospect water filtration plant.
19
20 Major works to Warragamba Dam. In this last price
21 period we continued the major works as part of a \$240m
22 upgrade program over 10 years to ensure that the dam can be
23 effectively and efficiently operated well into the future.
24 We replaced 12 major valves with eight modern equivalents,
25 which was completed in 2006 ahead of schedule, and we are
26 currently undertaking a major electrical upgrade due for
27 completion this year as well as beginning an upgrade of the
28 drums, crests and radial gates.
29
30 We commenced construction in March 2008 to upgrade
31 Tallowa Dam to allow for new environmental flow releases
32 and for native fish passage. This \$26m contract will
33 enable the environmental flows and fish passage at Tallowa
34 Dam on the Shoalhaven River. The project will improve
35 downstream river health by improving the quantity and
36 quality of the environmental flows and will allow native
37 fish passage. The works, which will be finished in
38 mid-2009, will see Tallowa Dam as the first dam in
39 New South Wales to have both fish passage and variable
40 environmental flows.
41
42 We also continued works to allow the release of the
43 environmental flows in the Upper Nepean River, to be
44 completed by July 2010. We completed the infrastructure
45 project to allow for the release of variable environmental
46 flows from Avon Dam into the Upper Nepean River system, and
47 works to allow for the environmental flow releases from the

1 other Upper Nepean dams - Cataract, Cordeaux and Nepean -
2 and the two major weirs - Pheasants Nest and Broughtons
3 Pass - will be completed by the end of 2009.
4
5 With the Department of Water and Energy the SCA is
6 undertaking a major project to modify 13 weirs downstream
7 of the Nepean River to allow the passage of the new
8 environmental flows and fish past these barriers. Work
9 will be completed by the end of 2009.
10
11 Lastly, we finalised the development of sustaining the
12 catchments in the regional plan. From 1 January 2007 the SCA
13 began implementation of this plan. The regional plan was
14 required under the SCA's legislation and is a key tool in the
15 ongoing management of catchment water quality. The SCA
16 played a major role in the plan's development and has
17 undertaken a comprehensive implementation strategy including
18 engagement in an education program with catchment
19 councils and other key stakeholders as part of those works.
20
21 To the pricing submission that is currently before us.
22 When we were working through how we might approach this
23 pricing submission there were a number of key objectives
24 that we needed to consider, given the challenges that we
25 have faced over the last four years and what were some of
26 the challenges confronting us in the future. The first one
27 is that as a government trading enterprise there is an
28 expectation that the SCA will provide an appropriate return
29 to Government, both as a return on its assets and as a
30 dividend payment.
31
32 The second issue associated with that is the ability
33 for us to maintain a satisfactory credit rating to ensure
34 that our borrowing costs do not increase above what should
35 be considered as a reasonable level.
36
37 The next issue that is appropriate around that is how
38 long should the pricing determination period be for?
39
40 The next review of the metropolitan water plan is to
41 be undertaken and completed for 2010, so it was felt that
42 we needed to make sure that, firstly, our price period
43 reflected that review of the metropolitan water plan, but
44 enabled that plan to be finalised and in sufficient time to
45 be in front of us before our next pricing submission had to
46 be submitted to IPART. As well as that, the benefits of
47 aligning with Sydney Water's pricing period was also an

1 advantage in relation to that.
2
3 The next issue is how are we going to maintain and
4 manage our operating expenditure in a changing environment.
5
6 Firstly, with the commissioning of the desalination
7 plant over the next price period, that is going to have an
8 impact on the SCA's revenue stream over that particular
9 period, and, therefore, we were very cognisant of how we
10 might need to manage our operating expenditure with
11 potential changes in revenues over that operating period.
12
13 The second aspect around that is if we do not look at
14 how we can manage our operating expenditure with that
15 changed environment, there is likely to be a significant
16 flow-on impact to our customers and ultimately Sydney
17 Water and other local council customers. We have attempted
18 to identify some efficiencies and some program areas that we
19 may be able to manage over the next three-year period to
20 minimise that impact while still providing the returns to
21 Government that are required as a government trading
22 enterprise.
23
24 The other issue is in relation to an appropriate level
25 of capital expenditure over the price period. As people
26 are aware, a mini-budget process has been undertaken and
27 the work that the SCA undertook in preparing its pricing
28 submission stood the organisation in good stead in relation
29 to the questions that were asked during that mini-budget
30 process.
31
32 The budget in May 2008 included forward capital
33 expenditure of about \$300 million, but through a rigorous
34 review of the timing and the level of capital expenditure
35 proposed under our price path, we were able to reduce that
36 down to \$147m, or close to \$150m, in the forthcoming price
37 period.
38
39 The final issue is, having spent nearly \$35m over the
40 last price period with pumping water from the Shoalhaven,
41 what is an appropriate way to manage, if you like, an
42 unknowable cost going forward into the next price period,
43 both unknowable in terms of likely energy costs, given the
44 carbon pollution reduction scheme, but also unknowable in
45 terms of likely quantities that we may have to pump from
46 the Shoalhaven scheme.
47

1 So our submission was developed with those key
2 challenges and key objectives in mind, picking up the sales
3 and demand projections from the Sydney Water price
4 determination as adopted by IPART and picking up when the
5 desalination plant would commence, with the initial
6 operation period for June 2013.
7
8 The other aspect around the desalination plant and the
9 review of the metropolitan water plan is, as part of the
10 review of the metropolitan water plan 2010, the operational
11 rules around the desalination plant will be determined and
12 considered.
13
14 That also fits with the three-year pricing period that
15 we have proposed, because it allows the new rules to kick
16 in for our subsequent pricing determination.
17
18 Our operating expenditure has been reduced to \$80m per
19 annum in real terms, and our revenue from our fixed charge
20 compared to our volumetric charge has been increased to
21 80 per cent of revenue, and we can touch on that later if
22 necessary.
23
24 As I said, we have identified a realistic capital
25 program, concentrating on requirements around the
26 metropolitan water plan, dam safety requirements and
27 refurbishment and maintenance associated with our assets.
28
29 We have sought to obtain a return on assets of
30 7.5 per cent, which matches that of Sydney Water's recent
31 determination and, as I have said, a three-year price path.
32
33 Our submission also includes a price pass-through of
34 \$17.7m for the finalisation of the accelerated sewerage
35 program; and the Shoalhaven pumping costs, if and as
36 required, would be a price pass-through.
37
38 The mechanism by which that could work is not that it
39 would be based on a monthly or quarterly process through
40 Sydney Water. Given that our price is a pass-through to
41 Sydney Water, there is no reason why that arrangement
42 couldn't be done on an annual basis, as the price path
43 flows through the year.
44
45 Where have we been in terms of the current price
46 determination? What you can see there is our IPART-allowed
47 expenditure and what our actual expenditure was in terms of

1 return as a contribution, and then what those returns have
2 been due to the allowance for the pumping and the lower
3 sales. So the black lines about a quarter of the way down
4 the charts are the impact of that. So our returns have
5 been close to 4 or 5 per cent. Hopefully, with management
6 and a reduced expectation of pumping from the Shoalhaven
7 this financial year, it will allow us to get back up
8 towards that 6 per cent mark.
9
10 As indicated, the future water supply has picked up the
11 demand figures from Sydney Water and other customers in
12 relation to 2008 and 2009, as well as for the three years
13 of the price period, plus the fourth year as specified in
14 the Sydney Water pricing determination.
15
16 Our planned expenditure includes operating expenditure
17 of \$86m this year plus the accelerated sewerage program in
18 2009-2010, and has been maintained at \$80m over the life of
19 the price path.
20
21 Our capital programming is much reduced from the
22 activities that we have had over the last three or four
23 years of the metropolitan water plan and, as I said, totals
24 about \$147m over the three-year price period.
25
26 Our capital expenditure is broken down in terms of the
27 various drivers for the business for capital expenditure.
28 Some of those are in relation to business efficiencies such
29 as IT, introduction of remote access and management of the
30 water supply system, some discretionary standards around
31 maintenance requirements, mandatory standards around dam
32 safety, and then new mandatory standards around safety and
33 other aspects. The final category is in relation to
34 Government programs as required.
35
36 Our planned capital program: under the metropolitan
37 water plan for the future price path there is total
38 expenditure of around \$18m, which is finalisation of the
39 works on Tallowa Dam, the Upper Nepean environmental
40 flow works, and then preparation around what modifications
41 may be necessary to Warragamba Dam to commence the
42 environmental flow releases that the Government will be
43 deciding in 2015.
44
45 The Warragamba Dam spillway: the project was
46 commenced in 1998 and the major work on the new spillway
47 has been completed. The remaining expenditure relates to

1 the gate upgrades, site restoration plus the construction
2 of the operational building and visitor centre.
3
4 The new building is completed now, with staff
5 occupying the building, and the contract has been let for
6 the upgrade of the dam spillway gates with completion
7 forecast in 2010, 2011.
8
9 The Upper Canal upgrades: there was significant
10 infrastructure predicted in our initial submission, but
11 that has been rescheduled and pushed back further into our
12 forward capital program.
13
14 Prospect Reservoir upgrades: this relates to upstream
15 embankment stabilisation, the issue being that as water is
16 drawn down from the Prospect raw water pumping station
17 there is the risk that there may be some subsidence and
18 collapse of the walls and storage capacity of the dam, and
19 we need to undertake investigation around that.
20
21 The Shoalhaven system capital relates to pipe
22 relining, safety around Wingecarribee Dam as a result of
23 the Wingecarribee swamp collapsing into the upper reaches
24 of the dam, work on Bendeela Camping Ground and electrical
25 systems within the Shoalhaven system.
26
27 The general upgrades relate to ongoing work,
28 maintenance around pipeline painting, and other activities
29 associated with keeping those assets up-to-date.
30
31 The item for land is in relation to security fencing
32 and security around special areas and control of access to
33 our infrastructure. The major aspect in relation to
34 buildings is in relation to the Penrith office block and
35 Warragamba, and then the item for plant and equipment
36 includes IT and our vehicle and other plant.
37
38 In relation to our revenue building block over the
39 life of the price path, our revenue is projected to be
40 around the \$200m mark over the life of the pricing period
41 with, as I said, our operating expenditure being \$97m,
42 including the accelerated sewerage program in 2009-2010 and
43 \$80m the year after. Depreciation makes up about \$21m to
44 \$22m, and our return on assets is about \$95m to \$97m in
45 relation to building up our revenue.
46
47 Moving to what the ultimate outcome of our pricing

1 submission proposes, what are the charges in prices to
2 Sydney Water? As people can see, there is a shift in the
3 component between fixed and variable which has been
4 highlighted. For those prices in 2009-2010 there is an
5 additional \$17m cost in relation to the accelerated
6 sewerage program. That needs to be factored in there.
7
8 I asked at the start, what does our pricing outcome
9 mean in terms of the impact on Sydney Water's customers and
10 local government? What we have done is worked out the
11 impact as a result of the pass-through mechanism in Sydney
12 Water's price determination compared with the annual
13 customer bill from the information contained in Sydney
14 Water's price determination. What we have been able to
15 manage through the building up of our proposal over the
16 next few years has been to keep the increase attributable
17 to the SCA to less than 2 per cent as an impact to Sydney
18 Water's retail customers.
19
20 Looking at the prices to the councils, who are our
21 other customers, it is proposed that there be no fixed
22 charges, unlike the two-part tariff to Sydney Water. The
23 increase in 2008-2009 over the life of the price path is
24 proposed to be CPI only. Just to give some context, the
25 value of sales of water to Wingecarribee Shire Council and
26 Shoalhaven are approximately \$800,000 and \$16,000
27 respectively.
28
29 Summing up on where we have come with our pricing
30 submission, over the current price path, we have delivered
31 key infrastructure projects to secure supply over the
32 drought and in the longer term. We have been able to
33 supply high quality raw water to our customers. We have
34 been able to deliver effective asset management, catchment
35 management and land-use planning.
36
37 Our proposal for the proposed future price is to
38 provide a 7.5 per cent return on assets and resultant
39 dividends to Government; to achieve and look for
40 significant operating efficiencies; to contain the impact
41 on Sydney Water's customers to be less than 2 per cent, and
42 councils to be CPI, thus enabling to us deliver on critical
43 water supply and catchment works as part of that process,
44 thank you.
45
46 THE CHAIRMAN: Thank you very much. That was a very
47 comprehensive overview. We have a few questions. We are

1 mostly concentrating on the prices.
2
3 MS CHADWICK: The SCA, in its submission, has included
4 efficiencies in its forecasts for operating expenditure of
5 approximately 7 per cent. How was this level of efficiency
6 determined and what are your plans for achieving it, and
7 what do you believe are the implications of these
8 efficiencies for the SCA's legislative and other
9 obligations?
10
11 MR BULLEN: Coming into the organisation in the middle of
12 this year as I did, there were a number of inefficiencies
13 in the way that the organisation operated and there are
14 some changes that will result as a result of government
15 policy over the next little while.
16
17 Dealing with the first one, as an example of
18 inefficiencies within the organisation, at Penrith, the
19 organisation was scattered and split between three
20 different offices. One major office had the majority of
21 the staff, with two other offices on either side of busy
22 roads. We are moving to our new office out at Penrith and
23 that presents an opportunity for us to consolidate our
24 administrative functions rather than having them split
25 between a number of offices. As well as that, we are also
26 looking at how we might consolidate support for the
27 executive and senior managers of the organisation rather
28 than having individual officers assigned to each executive
29 member.
30
31 The second aspect around that is that the metropolitan
32 water plan team that we have had in place over the last
33 three or four years is due to finish work at the end of
34 2009 - so in the first six months of the next price path.
35 We are looking at how we might stage the reduction in those
36 staffing levels of the metropolitan water plan team so that
37 we will have the minimal number for the commencement of
38 the next price path.
39
40 Another aspect is in relation to our accommodation and
41 other costs. We have significant office accommodation
42 costs associated with operating offices at Warragamba,
43 Penrith, Campbelltown, Burrawang and at Goulburn. I think
44 that there are opportunities for efficiencies around
45 reduction in our office and accommodation costs.
46
47 As part of that process as well, a new general manager

1 corporate services commenced about 12 months before I
2 started. She has been working very hard to improve our
3 business systems and our processes within the organisation.
4 As part of that, there are opportunities around improving
5 efficiencies around procurement and our HR systems that
6 currently require a lot of manual manipulation to obtain
7 reports and processes. Over the next six to nine months,
8 we will start to reap the benefits of that.

9
10 I would also add that, currently within the
11 organisation, we have about 30 to 40 positions that are
12 occupied by the temporary or agency hire employees. There
13 is an opportunity there, with the refinement of systems,
14 with the introduction of changed systems and processes and
15 efficiencies, to reduce the number of staff, the EFT
16 equivalent we have in the organisation by not employing
17 those temporary and agency hire staff.

18
19 MS CHADWICK: The second aspect of that question was
20 about the implications of those efficiencies for your legislative
21 and other obligations. The Total Environment Centre has,
22 in its submission, raised some concerns about the
23 implications for catchment management of one of those
24 efficiency programs. I guess the broader question is: how
25 does that relate to the delivery of the legislative
26 objective?

27
28 MR BULLEN: To my mind, if we are able to look for
29 efficiencies in our back office functions in terms of our
30 business and corporate systems, that would enable us to
31 spend either the equivalent amount or an increased amount
32 on our catchment activities whilst still reducing our
33 operating expenditure over the life of the program.

34
35 The other point around that is how we might undertake those
36 catchment interventions and catchment activities in a smarter
37 and more appropriate way. An example of that is at the moment
38 , through our catchment management program, we fund
39 activities with the Hawkesbury-Nepean and the Southern
40 Rivers Catchment Management Authority. That money,
41 through the linkages with the Natural Heritage Trust is able
42 to be leveraged on a 2:1 basis, for example.

43
44 We have another major program, which is a riparian
45 management assistance program. Over the last few years, we
46 have concentrated on doing that internally with our own
47 staff within our own period of operation. The reasons for

1 that were really to ensure, firstly, that the program was
2 up and running, well established, and, secondly, that we
3 were delivering on our objectives.

4
5 Now that that program is in place and we have been
6 able to get some successful projects on the ground in our
7 priority catchments, I think there is an opportunity to
8 look at whether that program could not also be done in
9 partnership with Hawkesbury-Nepean and the Southern
10 Rivers CMA. So there is an opportunity from, if you like, a
11 similar level of investment from the SCA to be leveraged
12 into considerably greater money with the Natural Heritage
13 Trust and to be able to deliver two or three times the
14 amount of money and works on the ground than we are able
15 do as a single organisation.

16
17 That is an example of some of the things we are trying
18 to look at while reducing our efficiencies and maintaining
19 and improving our catchment activities.

20
21 MR EDGERTON: I have a few questions relating to your
22 price structure. Firstly, the SCA's submission notes that
23 the proposed volumetric charge to Sydney Water reflects
24 your short run marginal costs over the next regulatory
25 period. Why does the SCA propose that the volumetric
26 charge should be set with reference to its short run
27 marginal costs rather than its long run marginal costs?

28
29 MR RASIAH: In coming up with that type of structure, we
30 looked at a range of issues. As you can imagine, it is a
31 very difficult issue to resolve. We were mindful of all of
32 the issues that Michael has raised in terms of the price
33 path going forward over the next three years, if you like.
34 We are also fully alive to the work that has been done on
35 long run marginal cost, of course, in terms of the
36 traditional pricing outcomes. But there are some
37 references in your working paper on water scarcity; for
38 example, that over the next three years, we may not be in
39 the same situation with the desalination plant coming on
40 and there may be, even going further forward, some level of
41 capacity as opposed to scarcity.

42
43 For example, the Grafton and Compass reference in the
44 working paper says that at times like that, you can look at
45 capacity based pricing, which is the short run marginal
46 cost approach, if you like, as opposed to demand base
47 pricing. That was another factor that came into the

1 thinking.
2
3 There was a range of issues, really, that led us to
4 come up with the 80 per cent fixed, 20 per cent variable,
5 one of those being its alignment with the short run
6 marginal cost approach, but over the next three years.
7 Then having trialled that and seen the outcomes, we would
8 look forward to what the situation brings over the next
9 price path.

10
11 MR EDGERTON: On the subject of long run marginal cost,
12 and just to flesh out your answer a little more, what
13 supply augmentation projects are expected to be required of
14 the SCA over the foreseeable future, for example, over the
15 next 10 to 20 years, and what is the latest information
16 available on the timing and costs of these augmentation
17 projects?

18
19 MR BULLEN: As you would be aware, that is part of the
20 process around the review of the metropolitan water plan.
21 As part of the current metropolitan water plan, the SCA was
22 required to consider options and report back to the
23 Government around two major significant capital expenditure
24 projects. The first one is in relation to the Upper Canal
25 and what options there were around replacement and so on of
26 the Upper Canal. The Upper Canal project in itself is not
27 a supply augmentation project because it does not actually
28 increase supply; it just significantly improves the risk
29 around the water quality.

30
31 The second project related to the Shoalhaven
32 transfers. The latest information that we have in terms of
33 our supply and demand modelling is that the need to invest
34 in any further augmentation from the Shoalhaven scheme
35 around tunnels to replace the run of river arrangements is
36 not predicted until about 2020 plus. Our initial cost
37 options around that are approximately \$500m in terms of
38 capital expenditure. As I said, that is where that process
39 is currently at. Any decisions around both the
40 commencement of that project and so on are matters for the
41 Government.

42
43 MR EDGERTON: Also on that issue of price structure, I
44 would like to get your response or thoughts on a number of
45 pricing options that were raised in our issues paper.
46 Firstly, one option raised in our issues paper was for the
47 SCA to charge Sydney Water a fixed price for a given

1 maximum quantity of water with any consumption by Sydney
2 Water above this amount charged to volumetric price, set,
3 for example, with reference to the long run marginal cost.
4 There could be a variety of ways to set the fixed volume of
5 water. For example, it could be set with reference to
6 sustainable yield or established volume to supply. What
7 are your thoughts on the merits of such a pricing structure
8 and how it could be applied in practice?

9
10 MR RASIAH: You would have to look at the levels that are
11 proposed, but one of the options in fact in the issues
12 paper was, for example, a fully fixed price, a fully fixed
13 charge with the commensurate issues that are raised with
14 that.

15
16 To the extent that that approach, over the next three
17 years, I suppose, allowed 80 per cent of revenue to come
18 within that fixed band, that would be, if you like, moving
19 in the same direction as we have proposed, but it would
20 very much depend on where the levels are set in terms of
21 our revenue outcomes over the next three years really.

22
23 MR EDGERTON: Just following up on that, another option
24 raised in our issues paper was scarcity pricing whereby the
25 level of the volumetric charge to Sydney Water would vary
26 depending on available supplies within your dams. What do
27 you see as the merits of that proposal and how could that
28 be applied in practice?

29
30 MR RASIAH: I think we would agree pretty much with your
31 findings in the issues paper in terms of the pros and cons.
32 While it may be more economically efficient because water
33 is allocated to its highest values, over the next price
34 path, given the construction of the desalination plant
35 coming on line - the chairman alluded to the circumstances
36 in terms of supply and demand maybe not being as
37 restrictive as previously - we would not see the need for
38 that in the short term at least and, at this point in time,
39 we would be looking at moving in that direction.

40
41 THE CHAIRMAN: Have you finished this line of questioning?

42
43 MR EDGERTON: I have.

44
45 THE CHAIRMAN: I would like to pursue it a bit further and
46 then I think my colleague Jim Cox might want to pursue it
47 also.

1
2 The starting point from my point of view is why 80:20?
3 Not so long ago, we proposed 35:65 and we basically moved
4 in that direction. Now we are going backwards - we are
5 going in the reverse direction. On the face of it, there
6 are some potential negatives with that 80:20. We went to
7 35:65 for some good reasons. In particular, Sydney Water -
8 they will speak for themselves, no doubt, of course - see
9 it as potentially an exercise in risk shifting.
10
11 The other concern might be that if Sydney Water's
12 costs are largely fixed, then they have an incentive to
13 sell as much of it as they can. They are going to pay for
14 it whether they sell it or not. The best thing they can do
15 is sell it, so it does not actually encourage the sort of
16 demand management initiatives the Government is favouring.
17
18 Given those sorts of thoughts, 80:20 does not seem
19 like a terrific idea at first blush. As has just been
20 pointed out by Mr Rasiah, it would be possible potentially
21 to get something in the order of 80:20 if you came at it in
22 a different way; that is to say, there is a guaranteed
23 quantum that Sydney Water can quantify, so you might as
24 well put a fixed cost on that given that they are going to
25 want to buy it. Whether that is 80 or whether it might be
26 only 75, there is a substantial bulk which you can be very
27 confident they will want to buy. That is another way of
28 referring to the sustainable yield, the presumption that
29 your water or the bulk of your water is always cheaper than
30 anyone else's.
31
32 That is, if you like, a long-winded way of saying that
33 you have a bit of a job to do to persuade us to embrace
34 80:20, whereas you might have a bit less of a job to do to
35 persuade us to get something approximating the same
36 answer, but coming at it in a different way. I wonder if you
37 would like to comment on that.
38
39 MR RASIAH: In summary, Michael highlighted the issues
40 before in terms of trying to come up with this, over the
41 coming period, where the desalination plant is coming on
42 line and the risk, if you like, to the SCA in terms of its
43 revenues. This is what we experienced in the previous
44 price path where the 65:35 was mooted going forward after
45 IPART had its price review at the time, which was
46 essentially focused on step pricing and that approach.
47 IPART decided not to proceed along those lines yet

1 indicated that some move towards a high volumetric
2 component would send the appropriate signal.
3
4 It was in response to IPART's indications that the SCA
5 proposed to trial that over that last price path. The
6 outcome has been that, because of the difficulty in
7 forecasting demand and the price being locked in for that
8 period based on the demand, there has been a high degree of
9 revenue volatility resulting in the revenue outcome for the
10 SCA being about 4.5 or 5 per cent compared with where the
11 target was.
12
13 That was one of the factors that we looked at: just
14 to look at the coming three years when there is continuing
15 uncertainty, as we would see it, in terms of what the SCA's
16 sales might be over those next three years. That was one
17 factor. But the other side of it was that we also did
18 intend in the short term to look at the capacity situation
19 and indeed still, unlike, say, having a fully fixed charge
20 at 20 per cent, include some signal to Sydney Water in the
21 short term.
22
23 THE CHAIRMAN: I guess from our point of view, there is
24 a question of how much risk there is and then how it
25 should be shared between the SCA and Sydney Water.
26
27 MR RASIAH: Given the pass-through mechanism that exists
28 where any revenue excess above the revenue that IPART has
29 set in the pass-through formula passes straight through to
30 customers, on fixed-charge customers, the risk to Sydney
31 Water you will see over this period may not be as high.
32
33 THE CHAIRMAN: I see.
34
35 MR BULLEN: That being said, Mr Chairman, with regard to
36 your suggestion around approaching that problem in a
37 different way, it is probably worth considering and having
38 some discussions as to our thoughts relating to that
39 suggestion.
40
41 MR COX: Listening to your answers, the sort of impression
42 I get is that you think the 80 fixed, 20 usage component is
43 right for this coming three years because, essentially,
44 there is a lot of water in the dams, the implication being
45 it may not be right in other times and it may not be right
46 in the future. That is my first thought.
47

1 The second thought that occurs to me is that the water
2 that the Sydney Catchment Authority has in its dam is much
3 more valuable on a per unit basis when dams are at a fairly
4 low level of storage than when they are full and perhaps an
5 ideal pricing system could reflect that as well.

6
7 I wonder if you have any thoughts on such a system.
8 Is that one that we should be moving towards in the longer
9 term? It seems to me we do not want to be flitting from
10 one price structure to the next in every price
11 determination period. There ought to be some logical
12 structure behind it. I would be interested in your
13 thoughts on that.

14
15 MR BULLEN: I will get Kumar to discuss the pricing
16 implications. By way of context, because we are dealing
17 with the metropolitan water plan and the operating rules
18 around desalination and supply from the various storages,
19 that will be a critical factor in subsequent pricing
20 determinations.

21
22 Ultimately, the Government, I would imagine, is
23 proposing to make decisions around certain supply levels to
24 enable the consumers of Sydney to use water to a certain
25 amount, and we will be seeking to maintain a situation
26 where storages do not approach the low levels that they had
27 reached during the last review.

28
29 That being said, how those new operating rules
30 translate into appropriate pricing arrangements is
31 something that I think we will need to evolve over the next
32 three years. For example, if the desalination plant is
33 running at a high level and we have a wet period, which we
34 have had in the past - who knows what may happen in the
35 future - then there is a reasonable opportunity cost of
36 water going over the spillway down the river. That is an
37 opportunity cost in terms of water supply to the people of
38 Sydney, but it also has an environmental benefit in terms
39 of environmental flows and benefits to the river.

40
41 How those issues interact at an appropriate pricing
42 structure for the SCA and Sydney Water is something that I
43 think will emerge over the next three years, or there is an
44 opportunity for it to emerge over the next three years as
45 those rules are determined

46
47 MR COX: But you would like to feel that the rules and the

1 pricing were in harmony.

2
3 MR BULLEN: Yes.

4
5 THE CHAIRMAN: I suppose you can have the situation
6 where the rules are set and the prices are brought into line with
7 the economy. There is another way of looking at it, which
8 is that if you get the right price structure, it puts less
9 pressure on regulatory rules because you create a set of
10 incentives. To my mind, you need to consider both the
11 rules and the prices together, not sequentially.

12
13 MR BULLEN: Which is correct, and that opportunity is
14 present over the next price path. As the operating
15 rules for the system are developed, there is an opportunity
16 for those to be considered in terms of future price
17 determinations for both the SCA and Sydney Water, and,
18 if you like, for backward adjustments or an iterative
19 process to occur at that stage with the review of the 2010
20 metropolitan water plan and subsequent reviews.

21
22 MS KRIEGER: The 80:20 split that you are proposing that
23 will significantly decrease the volumetric charge for
24 water. What implications do you think that has in the
25 emergence of competition for the supply of bulk water?

26
27 MR RASIAH: I think in line with what Mr Cox referred to,
28 we were looking at it in terms of the immediate price path.
29 It really is linked in very much with what Michael said
30 about how the operating rules work for the desalination
31 plant in the longer term, so there will be implications for
32 competition there as well. Currently, the institutional
33 arrangements are that we supply 99 per cent of our water to
34 Sydney Water; so, in that context, that is how we came at
35 the 80:20 rule. Longer term, I think that is something we
36 will have to look at further, as the Water Industry
37 Competition Act comes on and competition emerges, if you
38 like.

39
40 THE CHAIRMAN: Strictly the Act is here now. It is not
41 three years time; it is now.

42
43 MS CHADWICK: In terms of the other aspects of the price
44 structure the other customers of the SCA are the local
45 councils - Shoalhaven Council, Wingecarribee Council and,
46 in the future, Goulburn Council. The SCA proposes that
47 prices to these councils increase by CPI. The councils are

1 currently charged the volumetric charge only, and that has
2 been steadily tracking towards the volumetric charge that
3 Sydney Water pays over the current regulatory period. The
4 question is: what is the basis for the SCA's proposal that
5 the councils' prices increase by CPI rather than also being
6 adjusted over this period and how do these charges relate
7 to the cost of servicing these councils?
8

9 MR RASIAH: In terms of the prices going forward for the
10 councils, we have sought to minimise the impact on our
11 customers. Again that is why we have held the prices, if
12 you like, for the 2008-2009 levels at CPI, given that we
13 are proposing this restructure of the tariff. But we are
14 also wanting to, in the longer term, avoid price shocks to
15 the customers should the tariff structure change. That is
16 one of the factors.
17

18 In terms of the cost, I guess we have looked at an
19 overall whole-of-system cost in delivering water because
20 there is, I suppose, a resource opportunity cost in terms
21 of the water. That is one of the factors why we have
22 maintained that same tariff going forward.
23

24 MS CHADWICK: Did you consider changing the structure of
25 the councils' prices to be reflective of the structure
26 changes that you are suggesting to Sydney Water?
27

28 MR RASIAH: Again, I think the issue there was that the
29 councils don't pay a fixed charge, so it is hard to look at
30 a two-part tariff in that sense. The councils have not
31 been charged a fixed charge historically coming forward,
32 for various reasons, so that option was not available, if
33 you like.
34

35 THE CHAIRMAN: I am sorry, I may have missed a point,
36 but in the previous determination - and I suspect even earlier
37 than that - we were invited by the SCA to move to a
38 situation where the volumetric charge to councils actually
39 increased faster than it did for the Sydney customers, if
40 we put it that way, so that they would come into line. The
41 implication seemed to be that whoever you were, you bought
42 the water at the same price. That seemed to have a certain
43 logic. But now we are being invited to reverse that. Is
44 that a fair comment?
45

46 MR RASIAH: At this point in time, we are only looking to
47 hold the prices steady.

1
2 THE CHAIRMAN: But you are asking us to increase the
3 prices to Sydney customers, at the end of the day, by
4 3 per cent. Whereas you are asking us not to increase the
5 prices to local councils by more than the CPI. So it is,
6 if you like, a reversal of what we were trying to do
7 previously.
8

9 MR RASIAH: I think the approach was to, if you like, over
10 the three-year period where there is that uncertainty about
11 how the tariff might look going forward, not create
12 disruption, if you like, in terms of the prices --
13

14 THE CHAIRMAN: You're going to do it to the city customers
15 but not to the Goulburn customers or Southern Highlands
16 customers. I am just trying to understand why the sauce
17 for the goose isn't the same as the sauce for the gander.
18

19 MR BULLEN: In terms of our overall supply arrangements,
20 they are a very minor component of our revenue stream.
21

22 THE CHAIRMAN: But, still, they were a minor component
23 three years ago when we were asked to bring them into line,
24 or move towards bringing them into line.
25

26 MR BULLEN: Okay.
27

28 MR REID: Could I ask two questions. First of all, you
29 have requested a 7.5 per cent rate of return but, at the
30 same time, for a pass-through of the Shoalhaven cost and
31 for the make-up, if you like, of the charges to Sydney
32 Water to change to 80 per cent fixed and 20 per cent usage.
33

34 That would appear to, if you like, achieve revenue
35 sufficiency for Sydney Catchment Authority, but certainly
36 not expose Sydney Catchment Authority to some of the
37 commercial risks, et cetera, that would normally be
38 associated with a 7.5 per cent rate of return - more close
39 to almost a risk free rate, if you like. I am just
40 wondering, in the context of your proposals, how you
41 justify the 7.5 per cent rate of return.
42

43 MR RASIAH: I think that was picked up in the context of
44 the current determination to Sydney Water and based on the
45 volumetric risk that we have run in the past, and, going
46 forward, that we maintain the comparable outcome, if you
47 like, in terms of the water industry as a whole, bearing in

1 mind that when we had the 6.5 per cent on the previous
2 price path the achievement was considerably under that,
3 around the 5 per cent mark.

4
5 MR REID: Just in relation, then, to the price structure
6 and the incentive issue, it relates to the question,
7 obviously, of the potential impact on competition, but
8 there is also the impact, of course, on demand management
9 and aspects such as leakage control by Sydney Water. If
10 they're based largely on a fixed charge, what incentives
11 does that create for them to adopt demand management
12 approaches and, in particular, for example, greater leakage
13 control?

14
15 MR RASIAH: I think, moving forward, prices are going up
16 in that sense, and so, to the extent that there will be
17 price increases coming in the pipeline, there will still
18 continue to be that incentive for Sydney Water to look at
19 options for leakage control and demand management, so we
20 would still be maintaining 20 per cent, if you like, from
21 the volumetric charge; it is not a totally fixed charge
22 either. There will be some signals there as well.

23
24 MR BULLEN: The other aspect around demand management
25 is that it is considered in the context of the metropolitan
26 water plan and the overall supply system and demand
27 arrangements, including the current restrictions regime and
28 then any future long-term water conservation measures and
29 the introduction of schemes such as BASIX and recycling.
30 So those opportunities are still there within the
31 metropolitan water plan framework, without necessarily
32 being solely reliant on demand and pricing signals.

33
34 MR EDGERTON: I have a question in regard to your proposal
35 of a cost pass-through mechanism for Shoalhaven pumping
36 costs. Given the recent announcement of a three-year
37 moratorium on pumping from the Shoalhaven, are you still
38 proposing a pass-through mechanism for these costs?

39
40 MR BULLEN: What the minister announced is that there
41 would be, as you said, a three-year moratorium on
42 Shoalhaven pumping. What was also indicated in that
43 announcement was that the Government was able to make
44 that decision because of the current levels of storage. The
45 minister also indicated, on a follow-up questioning
46 process, that if storages dropped due to, if you like, a
47 repetition of 2004 inflows, then the Government would

1 reconsider that decision as required, but the issue is
2 really how we manage supply over the next three years.

3
4 I suppose from the SCA's perspective, we would like to
5 structure that Shoalhaven pumping cost as a pass-through,
6 given the unpredictability of the amount of pumping that is
7 required and, secondly, the unpredictability of the energy
8 costs that may be required as a result of that pumping.

9
10 It is certainly possible through our supply modelling
11 to arrive at a long-term average quantity of water to be
12 pumped from the Shoalhaven system as part of the overall
13 system yield, but, like any of our current storages that
14 are climate-dependent, the actual pumping requirements and
15 levels vary significantly from year to year. I think over
16 the last 12 months - and I stand corrected on this - we
17 pumped 200 gigalitres from the Shoalhaven system, but, on
18 the average, it is probably only 30 gigalitres over a
19 40-year period. So how that fluctuation can be taken into
20 account based on climate and other factors is difficult.

21
22 MR EDGERTON: But given the current situation, current
23 dam levels and the recent announcement, is it possible, rather
24 than having a cost pass-through mechanism, for you to come
25 up with an estimate of likely Shoalhaven pumping
26 requirements over the next price path, so that it is not so
27 much a long-term prediction that is subject to all of those
28 uncertainties, but more a three-year to four-year
29 projection?

30
31 MR BULLEN: I will respond, and I hope this is taken in
32 the correct way, that as part of my monthly report to the
33 board over the last little while I have been including a
34 La Nina weather update, and the most recent one said that
35 over the next six to 12 months there is between a 40 and
36 60 per cent probability that we will have average rainfall.

37
38 I suppose what I am outlining there is that, while it
39 is true that there is a moratorium, the context of being
40 able to determine an appropriate level over a three-year
41 period is very difficult.

42
43 As part of our ongoing management of the storages we
44 look at current capacity and then model a range of
45 depletions that may occur over subsequent years based on
46 the median inflows, the 2004 inflows and any other
47 combination that we like to look at. How you pick or

1 choose one of those particular outcomes is extremely
2 difficult, and all we can do is, if you like, make sure
3 that there is a process for decisions to be taken to either
4 turn on or off or up or down appropriate strategies to
5 augment supply.

6
7 So I suppose, to sum that up, I think it would still
8 be prudent to include some mechanism for transfer of
9 electricity costs as a result of Shoalhaven in our price
10 determination, given that the process for that to be
11 managed between us and Sydney Water can be achieved
12 through operational arrangements on an annual basis, given
13 the structure of the Sydney Water pricing determination most
14 recently.

15
16 THE CHAIRMAN: Just rounding that item off, you have
17 probably worked out that we don't like pass-through
18 mechanisms. They do create extra regulatory work,
19 et cetera.

20
21 Having said that, we have accepted that there are
22 occasions when they are the best way to go, and I don't
23 mean to pre-judge this one. I will just leave you with the
24 thought that very often when we have allowed a pass-through
25 it is only when there is a trigger attached: for a small
26 thing we might say, "You absorb it"; it is only when you go
27 beyond that that we have allowed the pass-through. I just
28 leave that thought with you.

29
30 In conclusion, then, on this part of our hearing,
31 I would like to thank you very much. You have helped us
32 quite a bit, I think, in understanding the underlying
33 reasoning for some of the propositions that you have put
34 forward. They are not totally uncontested, including from
35 what you have heard this afternoon, but your presentation
36 has been helpful to us and we thank you for that.

37
38 MR BULLEN: Thank you.

39
40 THE CHAIRMAN: I will ask Sydney Water to come forward.

41
42 SYDNEY WATER

43
44 MR RAMSEY: Thank you for the invitation to present at
45 this hearing. We don't have a great deal to contribute,
46 but we did respond, as you know, to the Sydney Catchment
47 Authority's submission and, in general, we supported their

1 submission. We did comment in our response on three
2 specific areas, and I will just expand on those.

3
4 As to the pass-through of costs, Sydney Water supports
5 official SCA costs being passed through in bulk water
6 charges. In Sydney Water's price determination, IPART
7 included a pass-through mechanism for this purpose, with
8 increased SCA costs being passed through in the water
9 service charge, and Sydney Water supports that mechanism.

10
11 There were two areas where we had disagreements with
12 the submission, and they were areas that have been well
13 covered in the last few moments. The immediate
14 pass-through of Shoalhaven pumping costs was the first.
15 While we have no conceptual difficulty with Shoalhaven
16 pumping costs being passed through to Sydney Water,
17 Sydney Water opposes having minor adjustments to customer
18 prices during the year.

19
20 In our submission we have said that such increases
21 would involve high administrative costs to reconfigure
22 billing systems and inform customers. The increase in
23 prices is likely to be too small to send any effective
24 signals to water consumers, and, for example, a \$10 m
25 increase in pumping costs would increase the water price by
26 around 2 cents per kilolitre.

27
28 Expanding on those comments, changing the price by a
29 few cents would present Sydney Water's customer division
30 with an array of problems and added major costs to the
31 business. It is not just that we think it is difficult; it
32 may not even be physically doable by us.

33
34 Under the customer contract, clause 4.9, we are
35 required to notify customers of a price increase before the
36 price increase. This would affect the message on the bill.
37 We would have to have more versions of Water Wrap to cover
38 the price variations; we would have to publish various
39 versions of new prices on the internet and our internal
40 ConnectNet system; we would have to undertake training for
41 back office/contact centre staff every time there was a
42 price increase; and we would incur costs for testing the
43 billing system every time the price changed. Every time
44 the price changes there is a requirement on Sydney Water to
45 change its IT systems, and those require testing and
46 bedding down.

47
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1 There would be considerable confusion for staff and
2 customers as to which price was current at the time the
3 financial billing adjustments were required. This would
4 add extra costs to the business and, without going on at
5 great length, we don't believe that an intra-year
6 adjustment of prices on a pass-through basis for pumping is
7 a practical solution. We are happy with an annual
8 pass-through, but that is about all.

9
10 The other issue where we had some disagreement was the
11 structure of SCA's prices regarding the fixed and variable
12 component, which has been discussed. As a simple person,
13 I would have thought that the structure should follow the
14 average costs. We understand the revenue security issues
15 for the Sydney Catchment Authority, but I would have
16 thought that if they have a component of fixed costs and a
17 component of variable costs, there is much to be said for
18 the prices following those components.

19
20 In our submission we have said that Sydney Water
21 currently pays a fixed and a variable charge to the SCA for
22 bulk water. The fixed charge is paid monthly and comprises
23 35 per cent of total payments to the SCA, and the variable
24 volumetric charge makes up the remaining 65 per cent.

25
26 The SCA proposes that the fixed charge should increase
27 to cover 80 per cent of Sydney Water payments and the
28 variable charge to 20 per cent. The Tribunal will need to
29 assess the most appropriate approach to setting bulk water
30 charges based on the SCA's cost structure and other
31 relevant factors such as the price structure of other
32 sources of supply.

33
34 We note, however, that the SCA's proposal would
35 transfer significant risk on water sales to Sydney Water.
36 The risk equates to around 15 cents per kilolitre of
37 additional costs to Sydney Water if water sales fall below
38 the level forecast in Sydney Water's determination.
39 Indeed, sales volumes are below forecast at present owing
40 to continued strict water restrictions.

41
42 If the Tribunal adopts the SCA's proposed price
43 structure at Sydney Water's next price determination, there
44 would need to be an adjustment made for the extra costs
45 over the course of this determination and recognition of
46 increased risk in future Sydney Water determinations.

47

1 In relation to risk, the risk is a risk in terms of
2 the rigidity of our costs. It matters not which component
3 of the revenue the costs are passed through into. For any
4 given level of revenue, more rigid costs are more risky
5 than less rigid costs, and, basically, the proposal makes
6 our costs more rigid in the interests of making their
7 revenue more rigid, and that's a simple way of looking at
8 it. We understand their concerns, but we think that in the
9 price structure if they have an average fixed cost level
10 and an average cost variable level, than that is broadly
11 where it would be appropriate for the fixed and variable
12 components to lie.

13
14 We have no difficulty with an 80:20 split if that
15 reflects the correct price adjustment. If that properly
16 reflects their price structure, then we have no difficulty
17 with that concept, although I note that their operating
18 costs are broadly 40 per cent of total revenue, but if that
19 is the case, then it should be what it is, but we note that
20 if it changes Sydney Water's risk profile and reduces
21 Sydney Catchment Authority's risk profile, then there
22 should be some adjustment to reflect that in future
23 determinations.

24
25 I think they are the only issues in the submission
26 that we wanted to cover by way of opening remarks,
27 Mr Chairman, and I would be happy to take any comments.

28
29 THE CHAIRMAN: Thank you very much.

30
31 MS CHADWICK: For pricing policy purposes, the value of
32 the SCA's volumetric charge is the signal that it sends to its
33 customers, including Sydney Water. So how would Sydney
34 Water respond to a change in the price signal in light of
35 the recent developments in the water industry, such as the
36 construction of the desal plant and the potential for entry
37 by the private sector following the Water Industry
38 Competition Act?

39
40 MR RAMSEY: We have done absolutely no modelling on
41 that, as you can appreciate. My un-modelled and
42 un-thought-through remarks would be that the demand for
43 water is such and the nature of Sydney Water's business is
44 such that a minor reduction in the variable component would
45 have such a vanishingly small impact on demand that it
46 would be swamped by a whole range of other factors and, in
47 effect, it would have no impact on demand at all.

1
2 MS CHADWICK: In terms of those things, will the
3 incremental cost of purchasing water from the desal plant
4 or the prices associated with that charged by the SCA
5 determine the desal's operating regime, and could you give
6 us an update on the likely rules or likely operation of the
7 desal plant?
8
9 MR RAMSEY: I wish I could. The operating rules for the
10 desalination plant have yet to be put in place by the
11 Government, and I make the point that they are a matter for
12 the Government, not a matter for Sydney Water on its own.
13 We will obviously have some input to it, but it is a matter
14 for the Government.
15
16 We have commissioned work on the appropriate operating
17 rules for the desalination plant. Broadly speaking,
18 I think it is not true to say that it is simply the
19 comparative marginal costs of the two sources of supply.
20 It is, effectively, a measure of cost versus benefit in a
21 wide economic sense. That is, it is the cost to the
22 community of running the desalination plant versus the
23 benefit to the community of having the plant running. That
24 would be our view.
25
26 Costs are rather easily defined; benefits perhaps a
27 bit less so. But, to the extent that running a plant, for
28 example, reduced the time that the community spent in water
29 restrictions, that has a value, and that value is offset
30 against the cost of running a desalination plant, in our
31 submission.
32
33 So the answer to your question is I can't tell you
34 what the rule is. The rules that we are modelling and have
35 been working with for illustrative purposes are that the
36 plant would switch on at some given level of dam capacities
37 and switch off at some higher level, and below the bottom
38 figure it would run continuously. We are modelling figures
39 of a switch-on at 70 and switch-off at 80 per cent of
40 capacity. And ditto at 80 and 90 and with a model at 30
41 and 40 per cent capacity, just to see if you get
42 significant measurable changes in benefit at any of those
43 levels. At the moment we have not finished that work, so
44 I am not able to give you any particular input. But the
45 marginal cost of supply between the two sources is likely
46 to have a relatively minor impact on the overall figure.
47

1 MS CHADWICK: We look forward to the outcome of your
2 modelling.
3
4 MR RAMSEY: So do we. I would stress again, though, that,
5 irrespective of what the models say, at the end of the day,
6 this is a matter for the Government, taking into account
7 the metropolitan water plan, the views of Sydney Water, the
8 views of the Sydney Catchment Authority and a range of
9 other issues.
10
11 MR EDGERTON: As I mentioned before, our issues paper
12 for the SCA price review raised a number of alternative price
13 structure options. First of all, there was the option
14 whereby the SCA charged to Sydney Water a fixed price for a
15 given quantity of water - for example, a sustainable
16 yield - with any consumption by Sydney Water above this
17 amount charged at a volumetric price; for example, the long
18 run marginal cost.
19
20 Another option was scarcity pricing, whereby the price
21 Sydney Water paid the SCA would depend on the level of
22 water in the dams. What are your views on the merits and
23 potential applicability of these two pricing options?
24
25 MR RAMSEY: On the first, I don't think we are
26 particularly sensitive, provided that the take or pay
27 component was set at a level that was geared to Sydney
28 Catchment Authority's fixed costs and appropriately shared
29 the volumetric risks between the two agencies. I don't
30 think I have a particularly violent view about it, off the
31 cuff.
32
33 To the extent that Sydney Catchment Authority has
34 fixed costs, those costs need to be covered. They have a
35 revenue requirement associated with that and we are
36 99 per cent of their business, and some structure that
37 gives them appropriate revenue security is proper and we
38 have no difficulty with it.
39
40 In relation to scarcity pricing we have rather more
41 colourful views. I need to be careful to say that these
42 reflect the view of the economic divisions of Sydney Water
43 and are not a considered position of the board.
44
45 Basically, there are two issues around scarcity
46 pricing that cause us concern or that we want to tease out.
47 The first is the potential for very substantial volatility

1 in prices associated with the incidence of rainfall and in
2 circumstances where the elasticity of demand for water is
3 untested but, clearly, very low. You could get very
4 strained price paths indeed if you had scarcity pricing in
5 drought and the price were to collapse.

6
7 Perhaps of more concern is the other issue which is:

8 in a world where water is probably the most abundant
9 commodity on the planet, and what we are really talking
10 about is the treatment of that water to potable standards,
11 it is difficult to see why there should be a price, in our
12 submission, higher than the long run marginal cost of
13 supplying unlimited water or the water quantity required if
14 it is possible to provide desalinated water at a long run
15 marginal cost.

16
17 For example, if desalinated water at a long run
18 marginal cost is \$5 a kilolitre, or whatever the cost is,
19 it is difficult for me to see why the community should be
20 asked to pay more than that in terms of the supply of
21 water. That is assuming that those costs are properly
22 calculated including one or two others.

23
24 MR EDGERTON: I have a follow-up question to your point
25 before about the distribution of risk and the potential
26 impacts of an increase in the SCA's fixed charge. In your
27 submission, you indicate that this risk equates to about
28 15 cents per kilolitre of additional cost to Sydney Water
29 if sales fall below forecast levels. Could you briefly
30 explain how this figure was estimated and also outline
31 whether there are any other potential implications of this
32 transfer of risk that might not have been raised so far?

33
34 MR RAMSEY: I will ask Stuart to explain the calculation,
35 but in terms of the distribution, it is abundantly clear
36 that anything that makes Sydney Water's cost structure more
37 rigid than it currently is relative to its revenue income
38 increases the risk, and vice versa. I will ask Stuart to
39 tell you how we got to the 15 cents.

40
41 MR WILSON: That figure was based on the data in the SCA's
42 submission. This year we are paying 22.2 cents a kilolitre
43 for bulk water. Under the SCA's proposed prices, we pay
44 7.5 cents per kilolitre. In each case the balance of the
45 SCA's cost is made up by the fixed charge.

46
47 It has been the pattern over the last couple of

1 determinations that Sydney Water has not sold as much water
2 to its customers as initially predicted at the beginning of
3 the determination, so we undersell. Whenever we undersell
4 a kilolitre of water, under current arrangements we
5 actually save 22 cents in what we pay the SCA. Under the
6 SCA's proposal, we would save only 7.5 cents. So we will
7 lose the full retail price of a kilolitre of water in our
8 market but we will make less corresponding savings on our
9 operating costs.

10
11 MR RAMSEY: So if revenue goes down by the first figure,
12 costs go down by the second figure.

13
14 MR WILSON: In our submission, we said we were not
15 necessarily objecting to an 80:20 rule. We were just
16 pointing out the risk implications that had in the transfer
17 of risk, but Alan covered that earlier.

18
19 MR REID: An alternative put forward as the usage charge
20 from the Sydney Catchment Authority to the Sydney Water is
21 the marginal cost of water from Sydney Water's desalination
22 plant. Do you have a view on that approach?

23
24 MR RAMSEY: Sorry, Colin, I need a little more detail.

25
26 MR REID: The usage charge charged by the Sydney Catchment
27 Authority to Sydney Water equates to the margin costs --

28
29 MR RAMSEY: To the margin costs of supplying desalinated
30 water?

31
32 MR REID: Yes.

33
34 MR RAMSEY: Provided this did not result in windfall gains
35 to the Sydney Catchment Authority, at first blush, I don't
36 think I would have any particular problem with it, if
37 Sydney Catchment Authority's revenue requirements were to
38 stay the same, you would have thought that would transfer
39 very significant components of their revenue to a variable
40 charge and away from the fixed charge. They may have
41 views about that, but I don't think we have.

42
43 MR WILSON: Certainly over the current price
44 determination, the way the desal is to operate and the need
45 for water from all sources, and requirements under the
46 metropolitan water plan and recycling targets and demand
47 management targets, means that even if we wanted to, we are

1 not really in a position to react to incentives. We are
2 not going to favour one source over the other.

3
4 MR RAMSEY: No. The facts of life are that if the
5 desalination plant is running, that water has to be
6 supplied to customers because there is no effective way of
7 storing it. The storage process is to reduce the outtake
8 from the Sydney Catchment Authority. The water itself has
9 to be consumed. It is not as if we are in a position to,
10 and nor would we want to, in some sense, balance between
11 the two suppliers based on price at a given point in time.
12 The operating rule, as I have said before, in our
13 submission, should have regard to the total costs and
14 benefits to the community of the plan versus the SCA
15

16 MR COX: Returning to price structure yet again, if I may,
17 I take the point that you have made that you are
18 constrained by the operating rules and the desal plant and
19 demand management targets. I think particularly for us and
20 particularly for the longer term, we seem to be moving from
21 the situation where Sydney Water had one source of supply,
22 the Sydney Catchment Authority, to a situation where there
23 will be multiple sources. The issue that is well worth
24 considering is how the variable charge of the Catchment
25 Authority should be structured not to be inconsistent with
26 making the best decisions. I would be interested in your
27 thinking on that, either now or when you have had a chance
28 to think about it.

29
30 MR RAMSEY: We would like to take that on notice and come
31 back to you with some views. Our working hypothesis to
32 date has been that the operation of the desalination plant
33 will be subject to rules particularly by Government that
34 will not include the marginal cost to Sydney Water, but I
35 will come back to you on that.

36
37 THE CHAIRMAN: Could I reinforce what Jim said and, in a
38 sense, repeat what I said earlier. You can rely on rules
39 to determine what happens. The problem is that if the
40 prices are not consistent with the rules, then you risk
41 incentives to break the rules. You are much better off if
42 you have a degree of iteration between the pricing and the
43 rules, so that they are mutually reinforcing, particularly
44 so that prices reinforce the rules and create incentives.
45 It may mean then that the rules have to be less black
46 letter law.

47

1 MR RAMSEY: I accept that.

2

3 MR WILSON: As Alan said, we will have a think about it,
4 but there is no working model of the bulk water market that
5 we can look to at this point and say, "That is an approach
6 which is easy to implement." The Water Industry
7 Competition Act provides a framework for moving in that
8 direction, but there is no off-the-shelf model we can yet
9 look at to provide definitive answers.

10
11 THE CHAIRMAN: I can understand your difficulty that
12 there is no practical experience in actually calibrating it. I
13 don't think I accept that you cannot conceive a model and
14 also anticipate, if you like, the structure of the
15 incentives that we can create. What we cannot say without
16 the appropriate experience is how powerful the incentives
17 will be - things like pricing elasticities, et cetera.

18
19 MR RAMSEY: All I can say at this point is that we will
20 come back to it. We will do some work on it and provide
21 some input to the Tribunal.

22
23 In terms of seeing the potential to set variable costs
24 for the Sydney Catchment Authority and the marginal cost
25 for the desalination plant, as I say, provided the annual
26 revenue required is being met by the Sydney Catchment
27 Authority, we do not have a problem with that.

28
29 THE CHAIRMAN: Thank you very much for your
30 presentation. It was quite helpful to us. I would now like to
31 ask the Wingecarribee Shire Council to come forward.

32
33 WINGECARRIBEE SHIRE COUNCIL

34
35 MR BREARLEY: Thank you, Mr Chairman. By way of
36 introduction, my name is Michael Brearley, council's
37 director of technical service. I would like to introduce
38 to the panel Councillor Ken Halstead, the Deputy Mayor,
39 Councillor Jim Mauger, chairman of our water and sewerage
40 committee, and Councillor Juliet Arkwright.

41
42 Wingecarribee Shire has been victim of a huge price
43 hike over the previous few years. The increase is 224 per
44 cent from \$93.90 per megalitre to \$210 per megalitre. This
45 is now an investment of \$1m per annum for us. This is
46 despite the fact that council has invested \$104m to protect
47 Sydney's drinking water catchment.

1
2 In fact, the council area is 16.5 per cent of the
3 total Sydney catchment area. If you consider that this
4 area of the catchment is a relatively high rainfall area,
5 the contribution which Wingecarribee makes to the Sydney
6 catchment in terms of water production is quite
7 substantial.
8
9 By way of history, Wingecarribee Dam was the original
10 Bowral water supply. In 1975, it was taken over by the
11 previous Metropolitan Water Sewerage and Drainage Board
12 at no cost to the board at the time, as part of the Shoalhaven
13 scheme to transfer water to Sydney.
14
15 At that time, council received 1,000 megalitres
16 per annum free in recognition of the riparian entitlement.
17 That entitlement was removed as part of the 2000 IPART
18 determination.
19
20 Wingecarribee firmly believes that Wingecarribee Dam
21 collects Wingecarribee water, which we are then forced to
22 buy back from a State Government monopoly.
23
24 Council should not have to pay the costs of transferring
25 water to Sydney. It is council's belief that it could meet its
26 own demand from what was the original Wingecarribee Dam.
27 Only a fraction of the Sydney Catchment
28 Authority's costs would relate to the supply of bulk water
29 from Wingecarribee Dam to council. The amount that council
30 takes from the Sydney Catchment Authority is but a small
31 part of the amount which is transferred to Sydney. Council
32 believes it should not have to subsidise the costs of
33 transferring the water from the Shoalhaven system to
34 Sydney.
35
36 We also note that the Sydney Catchment Authority has
37 had significant savings over the last price path period by
38 choosing not to raise Tallowa Dam. There are significant
39 price savings there, and we believe they should be passed
40 on to councils.
41
42 Already, council's water charges are higher than the
43 State average. Furthermore, with the \$104m we have
44 invested in upgrading our sewerage systems for the benefit
45 of the Sydney catchment, that continues to cost us more
46 because the new facilities are much more expensive to run
47 than the older treatment plants. There are higher

1 electrical costs, higher mechanical costs, higher continual
2 maintenance costs. So the costs to council keep
3 compounding.
4
5 In terms of pensioner rebates, the shire has a high
6 percentage of the retiree population and the higher price
7 which we have been charged by the Sydney Catchment
8 Authority over a period of time has to be absorbed twice as
9 council has to fund the pensioner rebates. It is a bit of
10 a double hit for council.
11
12 With regard to comparing us with other metropolitan
13 water authorities, we would contend, and I put to you, that
14 it is inequitable to compare Wingecarribee Shire Council
15 with Sydney Water. I have some statistics here to prove
16 it. It is much more expensive to operate our water and
17 sewerage systems because of the higher per capita costs
18 compared with Sydney. In terms of connections per
19 kilometre, council has 25 water connections per kilometre.
20 Sydney has 80. We do not have the economies of scale that
21 Sydney Water and the larger metropolitan water authorities
22 have. We believe it is unjust to compare us with the
23 operating costs of Sydney Water. Our costs per capita are
24 much higher.
25
26 Also with the upgrading we now provide very high
27 levels of treatment in our sewage treatment facilities in
28 order to protect Sydney's water supply. That has added
29 additional costs with the upgrade and in the operation of
30 our treatment plants.
31
32 When we look at treating our own water to sell to our
33 residents, we have had to install dissolved air flotation
34 and powder activated carbon. This is primarily because the
35 water we purchase from the Sydney Catchment Authority at
36 some times has concerns with regards to blue/green algae,
37 particularly during the summer period, and we need to
38 operate powder activated carbon plants right throughout the
39 summer period at an additional cost of \$200,000 per annum.
40
41 The costs of operating our water and sewerage business
42 go up, but unfortunately the subsidies go down. In terms
43 of our sewerage upgrading program, there have been changes
44 to the country towns water, sewerage and supply scheme,
45 which was a previous source of funding for upgrading our
46 sewage treatment plants. Those subsidies have increased.
47

1 It is recognised that the Sydney Catchment Authority
2 has provided additional funding under the accelerated
3 sewerage fund. Council is very grateful for that
4 additional funding, however, it is well short of the actual
5 costs of constructing a new sewage treatment plant. For
6 instance, we are now upgrading the Bundanoon sewerage
7 scheme at a cost of \$18.5m. The Robertson sewerage scheme
8 will cost over \$20m. Ten years ago, we were talking half
9 the amount of costs to implement those schemes. It is the
10 council which has had to bear the majority of those
11 additional costs. Whilst we are grateful for the
12 contribution from the Sydney Catchment Authority, it still
13 falls well short of the costs to construct these sewerage
14 projects.

15
16 In conclusion, council believes that \$1m is far too
17 high a price to pay for water that is run-off from
18 catchments within the Wingecarribee Shire Council area, and
19 council respectfully requests an appropriate reduction in
20 the bulk water price.

21
22 Mr Chairman, I would like now to invite the
23 councillors, if they would like to, to add anything to what
24 has been said.

25
26 COUNCILLOR HALSTEAD: My name is Ken Halstead. I
27 am currently a councillor. I was formerly shire engineer and
28 town planner at that council, and I am very mindful of town
29 planning obligations. Wingecarribee Shire Council is
30 mindful of its obligation to play its part in risk
31 management strategies including land-use restrictions,
32 which are quite intensive. They are obviously designed
33 to protect the Warragamba Dam and other dam storages,
34 which comes at a substantial cost. That is, for example, a
35 reduction in the rated income - both general and water.

36
37 I most sincerely request that IPART consider the
38 following aspects: the shire comprises approximately 16 per
39 cent of the Warragamba catchment. That has been mentioned
40 by Michael early on. That is something that fascinates
41 me - it is a very large percentage when one really
42 considers it.

43
44 Prior to the construction of the Shoalhaven scheme,
45 the shire drew water from the Wingecarribee River. That
46 occurred some years ago whilst I was shire engineer and
47 prior to that.

19/11/08 46 WINGECARRIBEE SHIRE COUNCIL
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1
2 Whilst I do not have current statistics on the average
3 total inflow to Warragamba Dam from the Wingecarribee
4 Shire, I am confident that it is substantial. My 16-odd
5 years in that council showed me, certainly as shire
6 engineer for the greater part of that, that when it rains
7 in the Wingecarribee, substantial inflow goes into the
8 Warragamba Dam. I have been present at times when we have
9 had excessive flows, for example, down through the
10 Wollondilly River and over the road down there.

11
12 Just as an observation in terms of looking at the rate
13 of \$93.9 per megalitre, at 6 per cent per annum for five
14 years that would give a figure of about \$125.66 per
15 megalitre. At 10 per cent per annum over a five-year
16 period, it would be \$151.23 per megalitre.

17
18 When one looks at the \$210.10, it really is
19 substantial when one takes into account the really
20 restrictive provisions relating to that area. They are
21 quite appropriate; I support them very strongly in terms
22 of having a town planning background, but we do suffer in
23 terms of the development potential that we would otherwise
24 have. A huge percentage of our shire is primary or
25 secondary catchment to the Warragamba Dam and, may I say,
26 part of it also goes into the Nepean catchment. Thank you.

27
28 COUNCILLOR MAUGER: My name is Jim Mauger. I make
29 no excuse for being an old farmer in the Robertson area for
30 all my life. I well remember when the Sydney Catchment
31 Authority played no part except in the north-eastern side
32 of our shire. I remember the dams going in and the
33 discussions at the time. I will not be long with this and
34 I will make it light.

35
36 It was never envisaged in 1975 that Wingecarribee
37 Shire Council would be asked to pay such a huge sum of up
38 to \$1m for the water which we currently are being asked to
39 pay. It is totally out of order and it is an impost on a
40 shire that has to maintain the quality of the water so that
41 it can be sold by other authorities for profit to the
42 population of Sydney.

43
44 Whilst I am not a dairy farmer, it is similar to this
45 situation: somewhere, somehow, we are now asked to supply
46 the milking cow, supply the feed, milk the cow and still
47 pay for the milk produced. That is about it.

19/11/08 47 WINGECARRIBEE SHIRE COUNCIL
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1
2 It is just not on, and I would really like to ask a
3 question: who can tell me who owns the water that falls
4 anywhere in Australia?
5
6 THE CHAIRMAN: The Government.
7
8 COUNCILLOR MAUGER: Then I pose you the question:
9 who owned it prior to settlement? Which government did you
10 mean?
11
12 MR REID: It belongs to --
13
14 COUNCILLOR MAUGER: It does not belong to the State
15 Government. That was proved in 1947 or 1948 by Mr Nelson
16 Lemmon, the Minister for Works and Housing, who was
17 responsible for getting the Snowy scheme underway. That
18 was the only reason it got underway; he determined that it
19 would get underway.
20
21 How is it that we are stuck now with this system where
22 the State Government is claiming the ownership of that
23 water that falls? Of course, if they do claim the
24 ownership of the water - I have interests in other areas of
25 State in the use of water and we pay dearly for water that
26 we do not have - if what you say is true, it is about time
27 we started getting paid back for the water that we have
28 been billed for out of various government institutions.
29 Sorry about that; I didn't mean to be rude.
30
31 MS CHADWICK: I respectfully suggest that this is a
32 discussion that perhaps we could have afterwards in
33 relation to water management.
34
35 COUNCILLOR MAUGER: Yes, sorry. Thank you.
36
37 COUNCILLOR ARKWRIGHT: My name is Juliet Arkwright.
38 Ladies and gentlemen, I am a newly elected councillor. I
39 speak more just briefly on the lines that I have also been
40 recently elected as chairman of the finance committee. I
41 support what my colleagues are saying. Basically why
42 should we be paying so much money for our own water?
43
44 I will make a point, which I suppose is more of a
45 political point but it is a fair enough point as I am an
46 elected representative: in the Wingecarribee Shire, and I
47 suspect all through regional New South Wales, there is an

1 increasing irritation at the State Government's
2 determination for lower subsidies and grants and to put
3 more and more costings on to local government. That is the
4 point that I will come from for this submission.
5
6 To me, this is another example where we are carrying a
7 huge burden, an increasing burden that, quite frankly, we
8 should not be carrying. Despite the Federal Government's
9 generosity of the last few days, it really is not enough to
10 solve the ongoing problems that we will have particularly
11 over water supply.
12
13 I guess there is a feeling too, politically, in the
14 regions that the people of Sydney - I was originally born
15 and brought up in Sydney - are very spoiled and very
16 wasteful, that we have supplying them and now,
17 increasingly, we are being asked to pay more and more for
18 that privilege. That is my simple point, thank you.
19
20 THE CHAIRMAN: Over to the secretariat.
21
22 MR EDGERTON: Has council undertaken any analysis on
23 what impacts SCA's pricing proposal would have on its
24 customers? For example, what is the current average of the
25 typical household annual water bill and what proportion of
26 this bill is attributable to council's bulk water costs of
27 purchasing water from the SCA?
28
29 MR BREARLEY: Council has done substantial analysis on it.
30 Regretfully, I do not have those figures with me. I would
31 have to take that question on notice and provide them to
32 you. We have a comprehensive 30-year business plan which
33 analyses and predicts the increase in the bulk water price
34 and it sets a water rate based on the bulk water price, the
35 capital works, the asset maintenance and all the other
36 factors which impact on council's business.
37
38 I would need to take that question on notice, but I
39 would be happy to provide that information to you.
40
41 MR EDGERTON: I wish to follow up from that question,
42 because in your submission and in your presentation, you
43 mentioned that, because of the nature of your operations in
44 terms of not having high density population, your costs for
45 reticulation are quite high and your sewerage treatment
46 costs are quite high. We were wondering if you had an
47 estimate, a ballpark estimate, of what percentage of your

1 water price would actually be composed of sourcing bulk
2 water as opposed to treating it and then distributing it.
3
4 MR BREARLEY: Certainly, we would have that information.
5 Again I would need to take it on notice. We would be
6 pleased to provide it to you.
7
8 THE CHAIRMAN: We would like you to do that.
9
10 MR BREARLEY: Yes, absolutely.
11
12 MR EDGERTON: I have another follow-up question to that
13 issue of affordability as well. You mentioned that you
14 have a relatively high proportion of pensioners in your
15 district.
16
17 MR BREARLEY: Yes.
18
19 MR EDGERTON: And you said that you are liable for some
20 of the costs of the pensioner rebates.
21
22 MR BREARLEY: Yes.
23
24 MR EDGERTON: What proportion of costs are you liable
25 for? Do, for example, the Federal Government or the State
26 Government provide funding to that pensioner rebate scheme?
27
28 MR BREARLEY: Again I am sorry, but that is another
29 question I would need to take on notice and get some more
30 information on the pensioner rebate scheme and how that
31 applies and the actual amounts. Yes, we do have that
32 information.
33
34 COUNCILLOR MAUGER: Just offhand, in relation to that
35 matter, we get only a proportion of that money back from
36 the Federal or State Government - I think it is the State
37 Government. The gap between us is increasing. We are
38 getting less back from those that provide us with the
39 subsidy as opposed to what we are asked to provide.
40
41 MS CHADWICK: You have made a very clear case for your
42 opposition to the SCA proposal, but does the council have
43 an alternative pricing proposal that you would like the
44 Tribunal to consider?
45
46 COUNCILLOR HALSTEAD: I have not looked at things in
47 detail, not being an economist. The only comment I can

1 make is: looking at the basic increase over that period of
2 time, as I already indicated, looking at the general figure
3 of CPI of 6 per cent, or even if you look at 10 per cent,
4 it is substantially less than the figure that has been
5 quoted or that is being proposed. At 6 per cent, it would
6 strike me that would be \$125, or thereabouts, per
7 megalitre, or even at 10 per cent - it is quite reasonable
8 these days with the problems we have - that would be
9 \$150-odd.
10
11 Further than that, I have not looked at it in any
12 detail. Whether the admin staff have looked at it, I am
13 not sure.
14
15 MR BREARLEY: I might add to that that whilst we are
16 grateful that the Catchment Authority is only proposing an
17 increase by the CPI from this time onwards, we would
18 contend that we have taken a very big hit over the past
19 five years, so much so that the price being charged to us
20 is far too high.
21
22 As to what the appropriate price is, Councillor
23 Halstead indicated that if the increases had been
24 reasonable, a reasonable cost would be in the order of
25 \$150 per megalitre and not \$220.
26
27 THE CHAIRMAN: I would like to thank you for your
28 presentation. Some of the issues raised about imposts more
29 generally are not so much relevant to today, but IPART is
30 actually conducting an inquiry into local government
31 finances at the moment. We do not have split
32 personalities. We will absorb those observations. We will
33 look at those issues when we are doing our review of local
34 government.
35
36 I might add this is not the first time that we have
37 heard these observations; it is just that they seem to be
38 fairly general observations. That does not mean that we
39 actually endorse them, but we are considering them.
40
41 To clarify matters, I appreciate your views about
42 ownership of water. I think you will find the State
43 Government owns the water. Referring to the Snowy River
44 scheme, the reason why that got up - I say this with some
45 authority having been involved in it - is because the two
46 states concerned, Victoria and New South Wales, agreed at
47 the time to allow the Commonwealth to form a tripartite

1 body. That, you may recall quite recently, was why the New
2 South Wales Government felt it could sell its shares in the
3 Snowy scheme. The Commonwealth spent all the money to
4 create the scheme. The New South Wales Government, by dint
5 of its ownership in the water, therefore had some shares.
6 Thank you very much again.
7

8 I call forward Mr Martin from the Total Environment
9 Centre.

10
11 TOTAL ENVIRONMENT CENTRE

12
13 MR MARTIN: Thank you for the opportunity for TEC to
14 present our views on the Sydney Catchment Authority crisis.
15

16 Probably the first issue of greatest concern to us in
17 this review is to ensure that the Sydney Catchment
18 Authority has an appropriate degree of revenue to enable it
19 to carry out its catchment protection functions. Clearly,
20 that was the original rationale in establishing the Sydney
21 Catchment Authority - it was a recognition following the
22 Sydney Water crisis that there were some deficiencies in
23 the way the catchment had been managed and that it was
24 necessary to have a greater emphasis on that. So that is a
25 key concern for us.
26

27 The second is that there be an appropriate resource
28 conservation signal provided to Sydney Water for the water
29 it purchases from the SCA.
30

31 The first thing I want to discuss is the Sydney
32 Catchment Authority's capital expenditure requirements. We
33 very much welcome the authority's proposed expenditure on
34 providing for environmental flows through releases from the
35 Upper Nepean dams and obviously, in due course, from
36 Warragamba as well. That is a long-overdue measure to
37 restore some of the health to the degraded
38 Hawkesbury-Nepean system. For a long time, they have not
39 only been deprived of flows but deprived of natural
40 variability in flows, and so those modifications to enable
41 those environmental flow programs to proceed are absolutely
42 essential for the health of the system.
43

44 We are also concerned that there has been an impact to
45 the Sydney Catchment Authority in terms of its
46 infrastructure from longwall mining and also to both the
47 quality and quantity of supply of water to the Sydney

1 Catchment Authority as a result of longwall mining damage
2 to the catchment. So we would urge the Tribunal, in
3 assessing the authority's revenue requirements, to have
4 regard to the authority's need to appropriately monitor and
5 deal with the effects of longwall mining and also to enable
6 the authority to appropriately participate in the planning
7 processes for longwall mining assessments and approvals.
8 It is absolutely essential that the authority be in the
9 position that it can provide the best quality data to those
10 processes.
11

12 We have seen in recent years damage to parts of the Upper
13 Canal system and also damage to a number of streams that
14 supply Sydney's drinking water supply. So we are very
15 concerned about the long-term impact of longwall mining on the
16 Sydney Catchment Authority and on Sydney's catchments,
17 and we think that that is an area that will require a very
18 high degree of attention from the authority.
19

20 In relation to operational expenditure, I note that
21 one of the questions that was asked of the SCA related to
22 our concerns about its proposed efficiencies in catchment
23 protection and the impact that that may have on those
24 activities. I think it is one thing to identify capacity
25 to do something better; it is another simply to look for an
26 opportunity to do something cheaper, and so we are
27 concerned that the Tribunal identify that the driving force
28 behind any efficiencies that the authority seeks to pursue
29 in terms of catchment protection is performing those
30 activities in a more efficient and better-quality manner,
31 not that the driving force is simply a need to reduce costs
32 which could lead to a compromise in catchment protection
33 functions.
34

35 As I said, the Sydney Catchment Authority was created
36 to monitor and protect the catchments, and it is absolutely
37 crucial that its functions in that regard not be
38 compromised. So we urge the Tribunal to apply a very high
39 degree of scrutiny to the Catchment Authority's proposed
40 expenditure in terms of catchment protection.
41

42 We also believe that there needs to be some attention
43 to the structure of prices that the Catchment Authority
44 charges Sydney Water. We are concerned that the Catchment
45 Authority is proposing a reduction in the proportion of
46 volumetric prices in favour of an increased charge in fixed
47 prices. We are concerned that that does not send an

1 appropriate resource conservation signal to Sydney Water.
2 We have for many years sought in general in water pricing a
3 reduction in fixed charges, and we are disturbed that the
4 Catchment Authority is proposing a reversal of that
5 positive trend that has taken place in water pricing over
6 recent years. So we strongly believe that the Tribunal
7 should not approve a reduction in that level of volumetric
8 charge in favour of an 80 per cent fixed charge component.
9
10 I understand that that introduces a greater degree of
11 risk to the SCA. I understand why water agencies prefer a
12 high level of fixed charges. Nevertheless, there are
13 measures that are available to manage that risk, including
14 making adjustments to subsequent determinations if the
15 revenue requirement differs substantially from what was
16 originally identified, so we don't support it and we
17 believe that the authority should not approve that.
18
19 In the discussion paper the Tribunal identified a range
20 of output measures for the Sydney Catchment Authority
21 to assess its performance. We support those. We think
22 they are a useful mechanism, but we do believe that they
23 are somewhat narrowly focused and we would like to see a
24 range of output measures that relate to catchment
25 protection functions and the success of the authority in
26 preserving the health of the catchments. That, I guess,
27 would be of some assistance in identifying whether
28 efficiencies that the Sydney Catchment Authority seeks to
29 pursue, in terms of its catchment protection, have an
30 adverse impact on the protection of the catchment.
31
32 There is a significant issue that needs to be dealt
33 with in terms of price setting, and that is determining the
34 appropriate volume of water sales. Clearly, the operating
35 rules for the desalination plant will have a significant
36 impact on the volume of water that the Sydney Catchment
37 Authority sells.
38
39 It is not really germane to this review, but we
40 previously said, and will continue to say, that we think
41 Sydney Water's proposal to operate the desalination plant
42 when storage levels are below 70 or 80 per cent is,
43 frankly, absurd. Given that the desalination plant is the
44 most expensive and environmentally damaging source of
45 water available to Sydney Water, we don't think it makes
46 sense to operate it as anything other than a drought response
47 measure, and I might add that we didn't think it made sense

1 as a drought response measure either, but, given that we're
2 now going to have it, if you are going to use it, you
3 should only use it as little as you have to.
4
5 Nevertheless, whatever operating rules are looked at
6 for the desalination plant, the underlying principle
7 determining appropriate water sales should be that
8 Sydney Water does not exceed the demand management
9 targets that are included in its operating licence.
10
11 To that end, if Sydney Water seeks to purchase water
12 from the Sydney Catchment Authority that is in excess of
13 its demand management requirements, we think that that
14 should come with a financial penalty imposed in order to
15 provide a stronger resource conservation signal, and to
16 give Sydney Water an incentive to invest in demand
17 management, as opposed to simply purchasing more water
18 from the SCA.
19
20 Again, obviously, the level at which that penalty
21 price or stepped price would be imposed would be ultimately
22 determined by the operating rules for the desalination
23 plant.
24
25 One further point is the length of the determination
26 period. We see a somewhat anomalous situation at the
27 moment where Sydney Catchment Authority's and Sydney
28 Water's price paths are out of sync. In the past they have
29 been aligned, and I guess part of the reason that they are
30 no longer aligned is the determination that was made for
31 Sydney Water with the desalination plant recently. We
32 think that there is some logic in realigning the price
33 paths of the two agencies, so, to that end, we would
34 support a three-year determination to bring Sydney
35 Catchment Authority back into sync with the next price path
36 determination for Sydney Water.
37
38 The final point that I want to mention is scarcity
39 pricing. We do not see that scarcity pricing is the best
40 approach for the Sydney Catchment Authority. In general,
41 we think - and we note that these comments were made in the
42 Tribunal's issues paper - there is a strong level of public
43 acceptance of water restrictions as a method of managing
44 droughts. We also believe that water restrictions are a
45 more equitable approach, in that the burden of conserving
46 water is shared more equally by everyone in the community
47 and it is not a question of some people being able to

1 purchase their way out of the obligation of saving water
2 whereas others aren't. We do not believe that scarcity
3 pricing is applicable in the situation.

4
5 Those are the main issues. Our chief concern, as

6 I said at the start, is that there is a resource
7 conservation signal continued to be applied to Sydney
8 Water, and that the authority's catchment protection
9 functions are not compromised.

10
11 THE CHAIRMAN: Thank you.

12
13 MS CHADWICK: You note in your comments the importance
14 of maintaining the resource conservation signal. Sydney
15 Water has indicated today and has previously made very
16 clear statements that its demand is a derived demand and its
17 capacity to respond to such signals is limited. Could you
18 elaborate on your belief as to why Sydney Water is in a
19 position to respond effectively to such signals?

20
21 MR MARTIN: I find it hard to grasp the concept of Sydney
22 Water saying that their demand is a derived demand and that
23 they don't have much capacity to respond to it. That's an
24 unfortunate statement given that demand management is a
25 key obligation of water agencies and that Sydney Water has
26 within its operating licence demand management targets
27 which they are supposed to meet.

28
29 I guess it is not surprising, given that without
30 restrictions Sydney Water has not once achieved those
31 demand management targets, and it is only because of the
32 effect of water restrictions that we currently have Sydney
33 Water operating within those targets.

34
35 Clearly, there is a lot that water agencies can do in terms
36 of reducing demand by investing in demand management,
37 assisting customers to use less water, educating their
38 customers and investing in greater water efficiencies. So
39 I don't accept that that is an issue that is beyond the
40 control of a water agency such as Sydney Water, and our
41 view is that Sydney Water should have very strong signals
42 sent to it that will induce it to invest more strongly in
43 demand management.

44
45 MS CHADWICK: Noted.

46
47 THE CHAIRMAN: There must come a point within the existing

1 technology where you use up most of the scope for further
2 water savings. I'm not saying technology is stagnant, but
3 technology tends to move in leaps and pauses, if I can put
4 it that way. Do you have a view that there is still a lot
5 of scope left for further demand management?

6
7 MR MARTIN: I think there is a great deal of scope left for
8 further demand management. I agree that logically there
9 will come a point where you are as efficient as you can
10 possibly be in a cost-effective manner. I don't believe we
11 are at that point yet and I suspect that with Sydney Water
12 embarking on the desalination plant we're unlikely to get
13 to that point at any time in the future, because a lot of
14 the drivers and incentives for investment in demand
15 management have essentially been removed. But I do believe
16 that we do have ample opportunity for further demand
17 management.

18
19 I think some of the programs that have been used in
20 the past and have been successful have additional scope for
21 achieving efficiencies. There is more scope in terms of
22 the standards that are applied for water efficiency for new
23 homes. There is also the capacity to expand some of those
24 BASIX standards to existing homes in terms of retrofit.
25 There is still existing capacity in terms of the commercial
26 and industrial sectors, and there are certainly continued
27 opportunities in terms of retrofitting of public housing to
28 achieve additional water efficiencies. So I don't think we
29 are at the point yet where you could logically say there is
30 no further capacity for demand management gains.

31
32 MR EDGERTON: You mentioned that your submission
33 proposes a stepped price tariff to apply to sales to Sydney
34 Water where a specified volume is exceeded. I was
35 wondering if you could elaborate a little bit more on what that
36 specified volume might be, how it should be determined, and
37 then how the volumetric price should be set above that
38 specified volume.

39
40 MR MARTIN: I guess the level at which it should be set is
41 the per capita consumption targets in Sydney Water's
42 operating licence.

43
44 Now, Sydney Water's unrestricted demand is a long way
45 from achieving those targets. So our view is, to the
46 extent that Sydney Water needs to purchase water from the
47 Sydney Catchment Authority to sell water to customers that

1 exceeds its demand management targets, they should be
2 penalised for that.

3
4 At the moment we have a perverse incentive to Sydney
5 Water where, if they fail to meet their demand targets,
6 they actually increase their profitability. So our view is
7 that the penalty price should actually seek to tax away
8 that additional revenue, so that would determine the level
9 at which the price should be set - to what extent it is
10 necessary to ensure that Sydney Water doesn't achieve
11 additional revenue.

12
13 I might add that it is quite important, in terms of if
14 that is to have any effect at all, that Sydney Water should
15 not be able to pass on the effect of any such penalty price
16 to its customers, otherwise the signal to Sydney Water
17 would be lost.

18
19 MS CHADWICK: Equally, if there was no pass-through, the
20 signal to the consumers about the consequences of their
21 consumption would also not be passed through.

22
23 MR MARTIN: My argument to that would be that there should
24 be a signal already provided to customers within the volume
25 that Sydney Water is supposed to sell within its demand
26 management targets. In terms of Sydney Water's prices, our
27 argument for stepped pricing is that the first tier price
28 should be set at the level of non-discretionary water use,
29 and that above discretionary water use is the level at
30 which you would apply a second tier, although I note that
31 that is somewhat of an academic discussion now that we have
32 moved away from the stepped pricing approach for Sydney
33 Water.

34
35 THE CHAIRMAN: I would like to explore this
36 fixed/variable issue. You have probably noted from the
37 nature of the questioning earlier in the afternoon that we have
38 some concerns about it too. If Sydney Water has a very high
39 fixed charge it increases the incentive for it to sell
40 water, or, at the very least, reduces the incentive to stop
41 leaks, or something.

42
43 MR MARTIN: It was certainly a fairly robust question and
44 answer session for an IPART hearing.

45
46 THE CHAIRMAN: I suppose the alternative view would be
47 that we've now gone down to 35 per cent fixed charge, and

1 therefore 65 per cent variable: do you need as much as
2 65 per cent variable to create a disincentive?

3
4 If I can go to the line I pursued earlier, where
5 arguably there is what you would call the base level for
6 your inclining block tariff, if I can put it that way, the
7 amount of water that people are almost bound to buy
8 whatever the circumstances, if we total that all up, and
9 let's suppose that came to 60 per cent of total
10 consumption - this is hypothetical, but it might be of that
11 order, I mean, the sort of inclining block tariffs that we
12 have had in the past have been more than 60 per cent as the
13 base level charge - if we totalled that all up, we agree
14 there is no real discretion about that, that's how we
15 defined this, then what is wrong with a fixed charge
16 equivalent to that amount?

17
18 MR MARTIN: I'm not sure I followed all of that, but we
19 certainly share the concerns that the Tribunal indicated in
20 its questions to the Sydney Catchment Authority that it
21 might provide incentive to Sydney Water simply to sell more
22 water.

23
24 Our concern is that we want to see the strongest
25 possible incentive to Sydney Water to invest further in
26 demand management, and I don't believe we are yet at the
27 point where Sydney Water can say that there is no
28 opportunity for additional cost-effective investment.

29
30 THE CHAIRMAN: No, I appreciate that. Let me restate it.
31 If we work out what you call a non-discretionary
32 component --

33
34 MR MARTIN: Yes.

35
36 THE CHAIRMAN: -- let's say it comes to 60 per cent of the
37 total water, and if we then said, "The fixed charge will be
38 equivalent to 60 per cent of the water supply", which would
39 mean, for argument's sake, a 40 per cent variable, wouldn't
40 that provide sufficient incentive for Sydney Water to
41 minimise its variable purchases?

42
43 MR MARTIN: I am not really sure, to be honest. Again, I
44 am struggling a bit with the question. I probably can't
45 really provide --

46
47 THE CHAIRMAN: It has no discretion, by definition, over

1 the first 60 per cent.
2
3 MR MARTIN: Yes.
4
5 THE CHAIRMAN: So wherever it has discretion, it is a
6 variable charge.
7
8 MR MARTIN: Sure. There might be some logic in that. I'm
9 not sure if we're at the situation where you can make that
10 judgment at this point in time.
11
12 THE CHAIRMAN: I suppose I would turn on Sydney and
13 say, "How can you favour a two-part inclining block tariff,
14 because you would have to make exactly that judgment when
15 you set the first tier?"
16
17 MR MARTIN: I guess my answer to that is that Sydney
18 Water has obligations in its operating licence that it is
19 required to meet, and there is the capacity for penalties
20 to be imposed if they don't meet it. They have never been
21 applied. And I think part of the reason that Sydney Water
22 has consistently failed to meet those targets is because
23 there is no real sanction for them for failing to do so,
24 and I suspect it changes the equation somewhat if there is
25 a penalty for failing to meet demand management
26 requirements.
27
28 MR COX: I want to ask something quite different about
29 your suggestion that there should be output measures for
30 catchment protection. I wonder if you could outline
31 perhaps what you had in mind and perhaps also taking
32 account of the importance of not duplicating measures that
33 are provided elsewhere.
34
35 MR MARTIN: We noted that SCA had some proposed
36 additional output measures in its submission, and we would
37 support those. We think that they would provide a useful
38 indication of the effectiveness of the catchment management
39 activities of the SCA. So I guess I think that the first
40 cut at those would be the ones that SCA has proposed in its
41 submission.
42
43 MR COX: Thank you.
44
45 MS KRIEGER: I just wanted to ask a follow-on question.
46 You cross-referred those output measures to the SCA ones,
47 but this is an area that's really within your interest and

1 expertise.
2
3 MR MARTIN: Sure.
4
5 MS KRIEGER: If there is something specific that you
6 could add to that, we would certainly be interested to hear
7 it.
8
9 MR MARTIN: I think that SCA has done some very good
10 work in terms of improving the health of the catchment, in
11 terms of controlling exotic species and planting of native
12 species to restore and improve the health of its
13 catchments.
14
15 Although I accept that it is somewhat out of its
16 control, the issue of the threat to both the quantity and
17 quality of Sydney's water supply from longwall mining has
18 not received adequate attention, and whilst it is an area
19 that the Sydney Catchment Authority doesn't have any
20 control over once approvals are given, we think they could
21 be doing more in terms of providing a role in terms of an
22 advocacy for the catchments, and so we would like to see
23 some output measures in that respect as well.
24
25 MS KRIEGER: Thank you.
26
27 MR EDGERTON: I am sorry, but just as a bit of a follow-up
28 to that question: do you see that those sort of output
29 measures should be incorporated into the price
30 determination, or should they be, for example, in the
31 operating licence?
32
33 MR MARTIN: I think there is probably some logic to having
34 them in the operating licence, but it would provide a
35 useful measure for the Tribunal to satisfy itself as to
36 whether the Sydney Catchment Authority is adequately
37 performing its catchment protection role, and additionally
38 whether it has sufficient revenue to enable it to perform
39 that role.
40
41 THE CHAIRMAN: Thank you again.
42
43 MR MARTIN: Thank you.
44
45 THE CHAIRMAN: I would now like to call on Mr Tudehope
46 from Jemena.
47

1 JEMENA LIMITED
2
3 MR TUDEHOPE: Thank you, Mr Chairman, for inviting us to
4 speak today. I am Warwick Tudehope from the regulatory
5 team at Jemena, and with me I have Linda Gyzen, the general
6 manager of AquaNet.
7
8 Perhaps before I move on to the substance of our
9 submission I can spend a little time describing what
10 Jemena's interest is in the water industry and in the
11 current review of Sydney Catchment Authority's prices.
12
13 Jemena Group is owned by Singapore Power International
14 and includes amongst its assets the New South Wales gas
15 network that was formerly owned by AGL. AquaNet Sydney
16 is a Jemena company, and along with Veolia Water Australia
17 was selected by Sydney Water recently to undertake the
18 Rosehill recycled water scheme, which will deliver high-
19 quality recycled water to industrial and irrigation customers
20 in the Camellia, Smithfield and Rosehill areas of Sydney. The
21 scheme involves the construction of a recycled water plant
22 at Fairfield and a 20 kilometre distribution network, and
23 initially will be delivering about 12 megalitres per day of
24 recycled water to customers in those areas, displacing
25 potable water.
26
27 We expect the first water deliveries in the first
28 quarter of 2011. The network will be expanded over time to
29 include areas such as Parramatta, Westmead, Wetherill Park
30 and Liverpool.
31
32 Jemena and Veolia have each applied for a network
33 operator's licence under the Water Industry Competition Act
34 to undertake their respective parts of the scheme.
35 Veolia's application covers the treatment plant and that
36 has recently, in the last few weeks, been opened to public
37 consultation. Jemena's application covers the distribution
38 network and opens for consultation today.
39
40 More generally, we see the Water Industry Competition
41 Act as opening the way for the private sector to be
42 involved in the New South Wales water industry, to deliver
43 innovative solutions and new sources of supply,
44 conservation and substitution, and the pricing of water
45 from conventional sources, including Sydney Catchment
46 Authority, will have an important part to play in
47 determining how that plays out.

1
2 We have made a written submission to the Tribunal and
3 we cover two principal issues - first, the alignment of the
4 regulatory periods for Sydney Catchment Authority and
5 Sydney Water; and, second, Sydney Catchment Authority's
6 proposal for pricing of bulk water to Sydney Water. Both
7 of these issues have been pretty well canvassed today, and
8 I think we are largely in accord with what has already been
9 said, but I will go through our points.
10
11 The first point relates to the alignment of the price
12 review periods for Sydney Catchment Authority and Sydney
13 Water. Of course, until the most recent review of Sydney
14 Water's prices concluded earlier this year, the two reviews
15 were aligned, and for good reasons outlined by the
16 Tribunal, and we think there is a strong case for bringing
17 them back into alignment and we say that there should be a
18 shorter review period for Sydney Catchment Authority this
19 time, and that would allow a holistic approach for dealing
20 with the two entities to take into account demand
21 forecasting, Government policies and, in particular, the
22 price between the two entities, all of which can be
23 determined in a holistic fashion if they are dealt with
24 together.
25
26 At this stage, we think that one other benefit for the
27 Catchment Authority in the shorter review period would be a
28 reduction of their exposure to uncertainty about the
29 operation of the desalination plant.
30
31 The second issue with prices has been canvassed
32 considerably this afternoon. This slide is an excerpt from
33 the Sydney Catchment Authority's submission. It shows the
34 substantial rebalancing of the tariffs between fixed and
35 variable charges. It is proposed to move the current level
36 of about 35 per cent of their costs recovered through fixed
37 charges up to 80 per cent and there is a substantial
38 reduction in variable charges and volumetric charge of the
39 current level of \$220 a megalitre down to about \$79 over
40 the period. As has been stated before, the \$79 a megalitre
41 was said to reflect Sydney Catchment Authority's short run
42 marginal cost.
43
44 In our submission, we would say that particularly the
45 reduction of volumetric charge is a regressive step in
46 today's environment. There are at least two practical
47 consequences. First of all, we would say that the

1 viability of conservation measures such as demand
2 management and leak reduction projects would be
3 undermined to the extent that they would be justified on the
4 basis of perhaps a higher increase in volumetric charges. There
5 would also be a significant transfer of volume risk from
6 the Sydney Catchment Authority to Sydney Water and that has
7 been discussed already.

8
9 Our other observation is that the proposed level that
10 volumetric charges be increased is inconsistent with the
11 principles that might apply in efficient market design or
12 operation. In competitive markets, generally the highest
13 marginal cost of supply requires an equal demand. While
14 there may be periods when prices are short run costs, over
15 the long haul, they reflect an average cost because capital
16 costs have to be recovered as well.

17
18 These principles are reflected not only in unregulated
19 markets but in a regulated market such as the National
20 Electricity Market and Victoria's wholesale gas, where for
21 a particular pricing period, there is a bid stack and the
22 market is cleared and the highest bid is required to
23 satisfy the market during that period. In economic terms,
24 pricing in this way produces appropriate signals for any
25 existing new entrants to invest in its capacity.

26
27 There is perhaps also an analog in the approach that
28 the ACCC took in arbitrating the access dispute between
29 Sydney Water and Services Sydney. The final decision was
30 given in June 2007. The principle established in that
31 decision was that the cost that should be subtracted from
32 the retail price by the service of establishing the access
33 price should be the cost of the access provided by Sydney
34 Water in that case; that is, the costs they could avoid,
35 that being their long run avoidable costs, rather than the
36 short run costs that they actually bore.

37
38 Translating that into the current context is to say
39 that it is not the short run marginal cost that should be
40 the determinant, but rather the long run cost of the
41 marginal source of supply. If you look at that in the
42 current situation and apply it to Sydney, the desalination
43 plant conceivably is the marginal source of supply.

44
45 I accept there will be rules around its operation.
46 The chairman referred to aligning the rules with the
47 incentives. In our past submissions, we have argued that

1 the prices should be set by reference to the long run
2 marginal cost of supply. We still hold that view, and we
3 note that that methodology is applied by the ESC in
4 Victoria, and the Tribunal has adopted that in setting
5 prices for Sydney Water, albeit at the retail level.

6
7 At the same time, we acknowledge that there are
8 problems with the establishment of long run marginal costs
9 precisely and certainly after each significant capacity
10 implementation, such as the desalination plant, long run
11 marginal costs would probably for a period perhaps tend
12 towards short run marginal costs.

13
14 In the case of the desalination plant, the short run
15 marginal or the marginal cost of operation, we understand,
16 is of the order of \$550 a megalitre. That comes from
17 Sydney Water's submission to the Tribunal in connection
18 with the recent price review.

19
20 Given that marginal cost of \$550 is the operating cost
21 of the desalination plant, even at the current cost
22 supplied from the Sydney Catchment Authority of \$222, there
23 is a significant incentive for Sydney Water not to operate
24 the desalination plant but to draw on the dams as long as
25 that water was available. So you have a conflict between
26 the economic incentives that they would have and any
27 potential rule that says they should be operating the
28 desalination plant when dam levels are 70 per cent, say.
29 That situation would be exacerbated if the volumetric
30 charges in the catchment were reduced essentially at the
31 expense of a Sydney Water alternative, or \$130 a megalitre.

32
33 The conclusion we reach is that the volumetric charges
34 to supply the margin to the Sydney Catchment Authority
35 should be set by reference to the marginal cost of
36 operation of the desalination plant so that Sydney Water
37 would be indifferent at the point that the plants operate
38 between taking water from the Sydney Catchment Authority
39 and its operating the plant.

40
41 The point at which the higher marginal charge should
42 cut in, of course, is quite contentious and we can perhaps
43 relate it in some way to the sustainable yield from the
44 dams. The alternative that you canvassed today, which is
45 something that we had not considered, of having a fixed
46 block and a fixed charge and then applying a variable
47 charge to everything above that perhaps has some merit. It

1 is not something we gave consideration to, but that might
2 be a way of achieving a relatively higher volumetric charge
3 on the margin.
4
5 We have already made the observation that there seems
6 to be a general support from a number of submissions that a
7 higher volumetric charge should be considered rather than
8 reducing it in the way that the Sydney Catchment Authority
9 proposes. At the same time we accept that if you took
10 higher charges on the margin, it then increases the volume
11 risks, which clearly the Sydney Catchment Authority is
12 seeking to avoid. So there may be a case for overs and
13 unders between years and between periods to compensate for
14 that. You talked about a fair band and compensation if you
15 get outside that fair band. We have not thought too much
16 about the mechanics of that. Thank you, that concludes my
17 prepared remarks.

18
19 THE CHAIRMAN: Thank you very much for that.
20

21 MR EDGERTON: Jemena's submission mentions that the SCA's
22 volumetric charge to Sydney Water should not be reduced as
23 Sydney Water would then have an economic incentive to
24 maximise its use of water from the SCA. If the SCA can
25 provide a lower cost source of water, why shouldn't Sydney
26 Water have an incentive to maximise its use of water from
27 the SCA in preference to the higher cost source of the
28 desalination plant?
29

30 MR TUDEHOPE: We make the observation at the margin
31 rather than on average, but at the margin, the way the prices
32 are structured at the moment, one would say that the
33 desalination plant should never be operated until the dams
34 are dry, because that is the economic sense of it. We are
35 talking now of rules that would force operation of the
36 desalination plant, but it would be uneconomic, given the
37 availability of cheaper lower cost water from the Sydney
38 Catchment Authority. So to remove that economic incentive
39 at the times when the desalination plant is operating, and
40 the way a normal head of the market would figure at times
41 when the desalination plant is operating, suggests that the
42 alternatives would be priced at a similar level. That is
43 the way that the National Electricity Market clears and so
44 on.
45

46 MR COX: This is a sort of price stack.
47

1 MR TUDEHOPE: Yes.
2

3 MR COX: There is a certain amount for lower marginal cost
4 and another amount for the higher marginal cost for and it
5 would depend upon what happened at which particular period
6 as to which price applied.
7

8 MR TUDEHOPE: Yes.
9

10 THE CHAIRMAN: Another way of putting it is that if we
11 had rules that treated how a desalination plant operated or
12 how much it operated and which related to dam levels, you
13 would then change the costs the Sydney Catchment Authority
14 charged also tied to the dam levels. So when the dams are
15 full, their charges are lower than when the dams are half
16 empty.
17

18 MR TUDEHOPE: Or when the desalination plant is --
19

20 THE CHAIRMAN: But the desalination plant operates when
21 the dams are half empty; it does not operate when the dam
22 is full.
23

24 MR TUDEHOPE: No, and that is --
25

26 THE CHAIRMAN: You could have a system where the rules
27 and the prices are then integrated.
28

29 MR TUDEHOPE: That may be complex. A simpler way,
30 which has been canvassed here, is to have a fixed block and a
31 fixed charge and then a variable charge price for
32 everything above that. That could be in some way linked to
33 the desalination plant, so that there were no
34 disincentives.
35

36 MR COX: You said the desalination plant would operate
37 during dry periods. It does not necessarily easily relate
38 to a fixed amount of water in the desal; it would come in
39 earlier, so to speak, if it was dry.
40

41 MR TUDEHOPE: Possibly not.
42

43 MS GYZEN: Can I make a general point? We are talking
44 about desalination and dams only, but we are also talking
45 about an alternative source of supply, and that is recycled
46 water. That recycled water investment, in providing those
47 solutions, is basically competing only at the volumetric

1 component of the water price. The customer has already
2 paid the fixed price, so in terms of competing for that
3 market and basically having enough money to invest further
4 in recycling, the volumetric price has a direct impact on
5 the new competitive sources.

6
7 MS CHADWICK: Associated with that is Jemena's view of the
8 potential for other entrants to come in to Sydney's market
9 and the implications for the price determination for those
10 additional water suppliers. I note that one of the
11 implications of the concept that you were putting forward
12 is a reasonable degree of volatility in the prices between
13 regulatory periods. What degree of certainty in pricing
14 approaches do you think is important to encourage that sort
15 of efficient entry?

16
17 MS GYZEN: We certainly would not want to see very
18 volatile prices. To invest in infrastructure like
19 recycling infrastructure, you need to take a very long-term
20 view. If you are going to sign up customers to use
21 recycled water, you need to have a reasonable certainty
22 that that price and that revenue stream will be reasonably
23 predictable.

24
25 MR TUDEHOPE: I guess the model that we are talking about,
26 to linking the Sydney Catchment Authority's marginal price
27 to the marginal cost of supply, is unlikely to vary greatly
28 over the period. We are not talking about the price in
29 terms of supply and demand necessarily, which is the
30 scarcity pricing model; although I guess, at the same time,
31 it would be nice to have restrictions at the end of --

32
33 THE CHAIRMAN: Can I just clarify that? I think we have
34 to acknowledge that the scarcity pricing model would be
35 more volatile than the long run marginal cost pricing
36 model.

37
38 MR TUDEHOPE: Indeed.

39
40 THE CHAIRMAN: I am not quite clear, for that reason,
41 whether you would prefer a long run marginal cost price if
42 you are not interested in a scarcity price model or you are
43 at least prepared at present to consider further the
44 scarcity price model?

45
46 MR TUDEHOPE: No, I agree; it would involve a long run
47 marginal cost model. As I said, the proposition we put,

1 given the long run marginal cost is a difficult concept to
2 deal with and takes some time to analyse and establish, is
3 that the long run marginal cost must be at least displayed
4 in the short run marginal cost. So the short run marginal
5 cost of the desalination plant, which is the marginal
6 source of supply in the market at present, establishes that
7 benchmark.

8
9 THE CHAIRMAN: That is what you would prefer.

10
11 MR TUDEHOPE: Yes. We have not really considered
12 beyond that to scarcity pricing as a complete model, but on
13 the face of it, both in the implementation and also from the
14 point of view of long-term investment in assets, certainly
15 the ability to do so is an important factor.

16
17 MS KRIEGER: Can I just ask a point of clarification on a
18 point that you made about the importance of a volumetric
19 charge for alternative sources of water? When you say the
20 volumetric charge is key because the customers want to pay
21 for the fixed charge, is that as a consequence of buying
22 properties which, through developer charges, have been
23 fitted out with a third pipeline which then gets passed
24 through to the consumers? Is that the sort of thing that
25 you were talking about?

26
27 MS GYZEN: No, it is more than that. If you take an
28 industrial customer as an example. People will always use
29 potable water as well as recycled water. There would be
30 very few places where you would use recycled water. You
31 buy the potable water first and then you say, "What
32 applications do I have for recycled water?" So you have
33 already bought the potable water. You have already paid
34 your fixed charges and you say "How much can I then save,
35 or how much recycled water can I buy and what will I pay
36 for that water?" That really comes down to what the
37 variable part of their overall charge is.

38
39 THE CHAIRMAN: Thank you very much. We have now
40 completed the people in the witness box, if that is the right
41 phrase. I did say we would allow people in the room some
42 time for comments or questions. In particular, with regard to
43 the Sydney Catchment Authority, there may have been
44 comments that you would like to reply to. This is an opportunity.

45
46 MR BULLEN: One of the key issues that probably would
47 require some elaboration is how the iterative process might

1 work around operating rules for desalination and pricing.
2 As part of the review of the metropolitan water plan, some
3 of the process around that is to consider the various costs
4 of the various sources of supply and a determination as to
5 how that will come out might play out in terms of the
6 trigger levels in the various rules.
7
8 It is in the very early stages. In terms of the
9 review of the metropolitan water plan around that work that
10 has been undertaken, there are two key areas of work:
11 firstly around the framework for the metropolitan water
12 plan reviewed up to 2010; then, secondly, how the
13 desalination operating rules may sit under that broader
14 framework.
15
16 The other aspect is: over the next 50 years, as demand
17 for water increases - there are demand issues; that is not
18 to downplay demand side issues and recycled water - when
19 can the appropriate points for decisions about alternate
20 investments around augmentation be predicted and managed?
21 We need to bear in mind lead times around particular
22 augmentation sources, whether they are major engineering
23 constructions, such as a dam; or, alternatively,
24 supplementation of the 250 megalitre a day desalination
25 plant up to 500, as the case may be.
26
27 It is an interesting issue as to how you structure
28 that framework and go through the considerations around
29 that, given some of the other issues that have been
30 identified during the course of the day.
31
32 THE CHAIRMAN: Are there any other questions or
33 comments? In that case, I will bring the hearing to a close
34
35 CLOSING REMARKS
36
37 THE CHAIRMAN: Some of the issues which you just
38 touched on, Michael, are pretty interesting, but they may not
39 be that relevant to this immediate determination for the here
40 and now, but we would certainly like to see if pricing can
41 be integrated with the regulatory regime.
42
43 I think also, just commenting on that, in terms of
44 planning for the future we need to bear in mind that the
45 Government also is seeking to involve the private sector,
46 so it is not just, if I can put it this way, what mischiefs
47 the Government might have in mind in terms of public sector

1 investment - albeit it could involve a private partner -
2 but also those that other people think of and which may
3 reflect their judgment about the future market which may be
4 as good as or better than the people who advise Government.
5
6 MR BULLEN: That's right.
7
8 THE CHAIRMAN: Just going back over today, we did receive
9 an enormous amount of unanimity on the price determination
10 period, and while the Tribunal hasn't taken a formal
11 decision on that, there is an obvious case for going to
12 three years. We will bear that in mind.
13
14 We are working our way through the capital expenditure
15 and operational expenditure with the consultants, but that
16 hasn't been a matter of huge dispute. There have been some
17 useful suggestions from Leigh Martin in particular about
18 making sure that you directed your resources appropriately.
19
20 Clearly, the issue that we do want to think about is
21 the pricing structure, and you did indicate a preparedness
22 to talk to us further about that.
23
24 MR BULLEN: Yes.
25
26 THE CHAIRMAN: We might want to take you up on that,
27 thank you.
28
29 I would like to thank you all for your participation
30 today. The proceedings are now closed, thank you.
31
32 AT 4.05PM THE TRIBUNAL ADJOURNED ACCORDINGLY
33
34
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47