Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

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Program: Division or Agency: 1: BOM
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Question No: 27

Topic: Mt Stapylton weather radar

Proof Hansard Page and Date Written *or* Written Question:

Senator Birmingham asked:

With reference to the inability of Mt Stapylton Radar to supply radar imaging to web users on the morning of 8 October 2011 while severe thunderstorms were affecting Brisbane and South East Queensland:

1. At what time, and by what means, did the Bureau advise Emergency Management Queensland that the Mt Stapylton Radar was not operational?

2. What was found to be the cause of the "technical or equipment problems" given as the reason for the radar service's unavailability on a website error message?

3. When was the system restored to full operation and what was the duration of the outage?

4. How many users attempted to access the radar through the website during the outage?

5. Since this radar became operational, please provide details of:

a. the time, date, duration, and causes of each occasion that the Mt Stapylton Radar was unable to provide the public (through the www.bom.gov.au website) with radar imaging due to equipment, technical or other non-scheduled maintenance or system failures.

b. if, and when, any of these occasions coincided with periods during which South East Queensland was the subject of a severe weather or thunderstorm warning.

Answer:

1. Notification of radar outages are provided to all users via the Bureau's website. The relevant radar image is replaced with the message 'Radar service is currently unavailable' followed by the reason and length of outage if known. In addition, if a long-term outage is expected a banner announcement stating the expected return to service date is placed above the radar image.

2. The outage of Mt Staplyton radar was noted at 8:12 EST on Saturday 8 October 2011, and was the result of a lightning strike which damaged the Bureau's communications system.

3. The system was restored to full operation on 10 October 2011 after an outage of approximately 50 hours. It should be noted that Marburg radar also provides coverage for the Brisbane area and acts as a backup when Mt Stapylton is unavailable. Marburg radar was fully operational during the 8-10 October 2011 outage.

4. During the event there were 301,478 attempts to view products from Mt Staplyton radar by users of the Bureau's web services. If no data output is received from the Mt Stapylton radar for 80 minutes, standard operating procedure is to automatically redirect user requests for radar data to the Marburg radar data.

5a. Information regarding the time, date, duration, and causes of each occasion that the Mt Stapylton radar was unavailable through the web service are given in <u>Table 1</u>. Note that the radar has delivered approximately 97 per cent of scheduled radar images over this period.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

5b. The provision of information on if and when outages occurred during a forecast of severe weather or thunderstorm events is available, but is expected to take significant time and resources to collate. However, at no time on 8 October 2011 was the warning service at significant risk. The Bureau networks, including radars, are designed so that outages of single systems do not necessarily result in a disruption to the forecasting service. The Bureau's forecasting relies on data from a range of sources including satellites and conventional surface observing stations as well as other radars in the area. The Mt Staplyton and Marburg radars along with back up radars provide adequate coverage for Brisbane, so that the provision of thunderstorm and severe weather warnings can continue unaffected by individual outages.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Table 1. Mt Stapylton Radar Reported Outages – Duration and Date Confirmed

OUTAGE START DATE	DURATION (hours)	TYPE OF OUTAGE
2006-09-25	55	Equipment Malfunction
2006-10-07	78	Equipment Malfunction
2006-10-23	12	Equipment Malfunction
2006-11-10	2	Equipment Malfunction
2006-12-05	11.9	Equipment Malfunction
2006-12-20	24	Equipment Malfunction
2007-02-09	1	Equipment Malfunction
2007-04-08	87	Equipment Malfunction
2007-04-13	2	Equipment Malfunction
2007-04-15	24	Equipment Malfunction
2007-04-16	38	Equipment Malfunction
2007-04-18	5	Equipment Malfunction
2007-04-22	31	Equipment Malfunction
2007-05-27	19	Equipment Malfunction
2007-07-04	6	Equipment Malfunction
2007-08-03	60	Equipment Malfunction
2007-08-18	19	Equipment Malfunction
2007-08-24	8	Equipment Malfunction
2007-09-24	38	Equipment Malfunction
2007-10-31	1	Equipment Malfunction
2007-11-05	6	Equipment Malfunction
2007-12-07	9	Equipment Malfunction
2008-01-26	68	Equipment Malfunction
2008-02-14	4	Equipment Malfunction
2008-02-25	8	Equipment Malfunction
2008-03-12	2	Equipment Malfunction
2008-04-04**	96	Equipment Malfunction
2008-04-09	2	Equipment Malfunction
2008-04-11	5	Equipment Malfunction
2008-07-04	64	Equipment Malfunction
2008-07-07	5	Equipment Malfunction
2008-10-21	3	Communications. Services Failure
2008-10-24	17	Equipment Malfunction
2008-10-24	8	Equipment Malfunction
2009-04-01	8	
2009-04-01	0 1	Equipment Malfunction Equipment Malfunction
2009-04-07	1	Equipment Malfunction
2009-07-01	2	Equipment Malfunction
2009-07-01	24	Radar Equipment Failure
2010-01-18	24	Equipment Malfunction
2010-07-04	44	Equipment Malfunction
2010-10-12	8	Equipment Malfunction
2010-10-12	50	Equipment Malfunction
2011-10-08	2	Equipment Malfunction
2011-10-17	17	Equipment Malfunction
2011-10-27	17	Equipment Malfunction
2011-10-29	17	

** indicates these outages need further investigation as the radar archive has images for parts of these outages.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Program: Division or Agency: 1: BOM Question No: 28

Topic: BOM Staffing

Proof Hansard Page and Date Written *or* Written Question:

Senator Birmingham asked:

1. Within The Bureau of Meteorology how many divisions are there and what are their names?

2. How many staff are there in each of these divisions?

3. Where is each division located and what are their staffing numbers?

Answer:

1. There are four divisions inside the Bureau of Meteorology: Climate and Water, Corporate, Services, and Research and Systems.

2. As of 30 June 2011, Climate and Water has 313 staff, Corporate has 277 staff, Services has 436 staff and Research and Systems has 748 staff.

3. The activities of the Corporate, Services and Research and Systems Divisions are focused in Melbourne, while the Climate and Water Division mainly operates from Canberra.

The total staff numbers (as at 30 June, 2011) for each region are as follows:

NSW/ACT	229
VIC	1018
QLD	148
SA	82
WA	135
TAS	82
NT	80

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Program: Division or Agency: 1: BOM Question No: 29

Topic: BOM Accommodation

Proof Hansard Page and Date Written *or* Written Question:

Senator Birmingham asked:

1. How many office locations are there within The Bureau of Meteorology and where is each located?

2. What is the size of each of these offices and are they leased or owned?

3. If the office is rented, what is the amount and what is the breakdown of rent per square metre?

4. What is the value of the buildings owned and what is the depreciation of those buildings?

Answer:

1, 2 & 3:

Meteorological Offices	Lease costs	Sq M	Price Per SqM
Adelaide Airport	\$ 147,358.17	19,059	\$7.73
Albany	\$ -*	27,000	\$0.00
Alice Springs	\$ 100,435.33	29,242	\$3.43
Brisbane Airport	\$ 330,293.24	12,692	\$26.02
Broome Airport	\$-*	31,912	\$0.00
Cairns Airport	\$ 95,886.81	19,700	\$4.87
Canberra (Capital Jet			
Building)	\$ 79,849.68	208	\$383.89
Carnarvon Airport	\$ -*	30,000	\$0.00
Ceduna	\$-*	3,020	\$0.00
Charleville Airport	\$ -*	34,010	\$0.00
Cobar	Owned by BoM	27,900	\$0.00
Cocos Islands	\$ -*	33,450	\$0.00
Coffs Harbour	\$ 100.00	1,030	\$0.10
Darwin RAAF Base	\$ 146,185.47	38,300	\$3.82
East Sale	\$ 847.35	200	\$4.24
Esperance	Owned by BoM	44,515	\$0.00
Eucla	Owned by BoM	40,000	\$0.00
Geraldton	\$ -*	29,800	\$0.00
Giles	\$ -*	38,231	\$0.00
Gove Airport	\$ -*	55,000	\$0.00
Halls Creek	\$ -*	9,772	\$0.00
Hobart Airport	\$ 17,075.22	1,300	\$13.13
Kalgoorlie	\$ -*	94,404	\$0.00
Launceston	\$ 37,250.52	132	\$282.20

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

T .1 A ! .	¢	2 202 01	100	¢22.02
Learmonth Airport	\$	2,202.01	100	\$22.02
Longreach Airport	\$	_*	40,000	\$0.00
Lord Howe Is	\$	3,167.27	8,203	\$0.39
Mackay Harbour	Ow	ned by BoM	3,758	\$0.00
Meekatharra Aerodrome	\$	_*	19,600	\$0.00
Mildura Airport	\$	421.82	24,400	\$0.02
Moree	\$	1,023.60	3,267	\$0.31
Mount Gambier	\$	_*	5,358	\$0.00
Mount Isa Airport	\$	16,266.61	40,000	\$0.41
Norfolk Island	\$	_*	15,986	\$0.00
Perth Airport	\$	19,157.70	4,405	\$4.35
Port Hedland	\$	14,483.88	30,000	\$0.48
Rockhampton	\$	_*	37,110	\$0.00
Sydney Airport	\$	253,501.68	4,480	\$56.59
Tennant Creek	\$	27,432.57	51,039	\$0.54
Townsville RAAF Base	\$	1,327.51	40,000	\$0.03
Tullamarine Airport	\$	72,006.60	8,551	\$8.42
Wagga Wagga	\$	_*	9,016	\$0.00
Weipa	\$	6,678.90	24,220	\$0.28
Williamtown RAAF Base	\$	_*	4,500	\$0.00
Woomera Airport	\$	_*	19,000	\$0.00
Willis Island	\$	_*	77,000	\$0.00
Total	\$	1,372,951.94	1,090,870	\$1.26

Supplementary Budget Estimates, October 2011

* Sites leased free of charge or with \$1 per year "peppercorn" rental.

Regional Offices	Lease costs	Sq M	Price Per SqM
Brisbane	\$ 856,945.04	1,410	607.76
Canberra	\$ 582,258.73	1,568	371.34
Darwin	\$ 384,563.84	1,160	331.52
Hobart	\$ 483,894.00	1,420	340.77
Adelaide	\$ 512,342.43	2,167	236.43
Perth	\$ 544,741.79	1,918	284.02
Sydney	\$ 1,177,048.29	2,595	453.64
Melbourne	\$ 690,421.89	2,132	323.84
Head Office/Melbourne	\$ 7,408,463.06	17,272	428.93
Total	\$12,640,679.07	31,642	399.49

Maintenance Centres	Lease co	osts Sq M	Price Per SqM
Belmont	\$ 50,47	71.82 656	76.939
Eagle Farm	\$ 124,37	70.46 503	247.257
Hobart	\$ 48,38	34.00 448	108.000
Leichhardt	\$ 63,29	94.00 437	144.838
Tullamarine	\$ 32,80)6.55 413	79.435
Winnellie	\$ 103,63	86.32 820	126.318
Total	\$ 422,96	53.15 3,277	129.053

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Special Purpose	Lease cos	sts Sq M	Price Per SqM
Broadmeadows	\$ 545,52	4.44 160,040	3.41
Campbellfield Store	\$ 213,18	0.84 3,100	68.77
Cape Grim	\$	-* 488,000	0.00
Learmonth Observatory	\$	_* _	0.00
Total	\$ 758,70	5.28 651,140	1.17

* Sites leased free of charge or with \$1 per year "peppercorn" rental.

Overall Statistics	
Accommodated Sites	66
Lease Costs	\$15,195,299.44
Sq M	1,776,929
Avg Per Sq M	\$ 8.55

4.

Description – Owned	Depreciation \$AUD	Building Value \$AUD
Building		
Eucla – OBS/Radar Building	\$27,579	\$680,700
Esperance Met Office	\$33,650	\$2,551,280
Mackay – OBS/Radar	\$24,550	\$1,664,700
Building		
Cobar – OBS/Radar Building	\$18,008	\$1,158,300

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Program: Division or Agency:1: BOMQuestion No:30Topic:BOM Expenditure

Proof Hansard Page and Date Written *or* Written Question:

Senator Birmingham asked:

1. Provide details on expenditure for 2010-11 for the Bureau of Meteorology on the following; advertising, travel (including breakdown: of business versus economy, domestic versus international), hospitality and entertainment, ICT, consultancy, education/training of staff, external accounting, external auditing, external legal and membership or grants paid to affiliate organisations?

2. Provide a further breakdown of the above expenditure for each division with the Bureau of Meteorology: advertising (\$mn), travel (including breakdown: of business versus economy, domestic versus international) (\$mn), hospitality and entertainment (\$mn), ICT (\$mn), consultancy (\$mn), education/training of staff (\$mn), external accounting (\$mn), external auditing (\$mn), external legal and membership or grants paid to affiliate organisations (\$mn)?

3. Within each divisional area, provide a further breakdown of expenditure under each Executive Manager: : advertising (\$mn), travel (including breakdown: of business versus economy, domestic versus international) (\$mn), hospitality and entertainment (\$mn), ICT (\$mn), consultancy (\$mn), education/training of staff (\$mn), external accounting (\$mn), external auditing (\$mn), external legal and membership or grants paid to affiliate organisations (\$mn)?

4. Please provide a breakdown over the forward estimates of each program or activity including: program title, program summary, is the program ongoing, lapsing, or terminating, breakdown of administered and departmental costs, program staffing numbers and location?

Answer:

1. Please see below.

Advertising

Media Advertising \$ 61,057

Travel

The total costs for travel related expenditure for the 2010-11 financial year are:

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Domestic Travel Allowance International Travel Allowance Passport & Visa Costs	\$4,499,268 \$ 916,668 \$ 1,850
Domestic Airfares Business Economy	\$ 97,094 \$2,046,665
International Airfares Business	\$ 869 417

Economy	\$ 581,015
First Class	\$ 25,551

Hospitality and Entertainment

Costs for 2010-11 financial year were \$ 48,569.41 (GST Free)

ICT

Costs for the 2010-11 financial year were \$25,816,614.96 (GST Free)

Consultancy

Consultancy Services over \$10,000 or more let during 2010-11:	\$3,059,859
Education/Training of staff	\$1,146,095
External Accounting	\$ Nil
External Auditing Audit Fees for Annual Statements	\$ 100,000
External Legal and Membership Legal Advice	\$ 486,213

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

\$ Nil

Grants paid to affiliate organisations	
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Please see below.

Ad	ver	tis	in	ıg	

2.

Media Advertising	\$	0.061M
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	Corporate \$ 0.034M	Systems \$ 0.026M	Services \$ 0.001M	
Travel	Corporate	Systems	Services	Climate & Water
Domestic Travel Allowance	\$ 1.087M	\$1.681M	\$ 1.125M	\$ 0.606M
International Travel Allowance	\$ 0.196M	\$ 0.393M	\$ 0.117M	\$ 0.211M
Passport & Visa Costs	\$ 0.0003M	\$ 0.001M	\$ 0.0002M	\$ 0.0003M

Domestic Airfares & International Airfares cannot be broken down to a Divisional or sub-Divisional level.

Hospitality and Entertainment

Costs for 2010-11 financial year are \$ 48,569.41 (GST Free)							
	Corporate	Systems	Services	Climate & Water			
	\$ 0.008M	\$ 0.02M	\$ 0.014M	\$ 0.024M			

ICT

Cannot be broken down to a Division or Sub-Divisional level.

Consultancy

Consultancy Services over \$10,000 or more let during 2010-11 were \$3,059,858. This figure cannot be broken down to a Divisional or sub-Divisional level.

Education/Training of staff	Corporate	Systems	Services	Climate & Water
	\$ 0.588M	\$ 0.174M	\$ 0.091M	\$ 0.293M

Senate Standing Committee on Environment and Communications Legislation Committee Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

External Auditing Audit Fees for Annu	al Statements	Corporate \$ 0.100M				
External Legal and Legal Advice	Corporate \$ 0.483M		Services \$ 0.003M			
Grants paid to affi Not applicable.	liate organisati	ons				
3. Please see be	elow.					
Advertising Media Advertising		\$ 0.061M				
		Corporate \$ 0.034M		Systems \$ 0.026M	Services \$ 0.001M	
<u>Corporate</u>	Exec & Inter \$ 0.027M	national	Finan \$ 0.00	•		le Management 03M
Systems	Observations \$ 0.011M	Observations & Engineering \$ 0.011M		Centre for Weather and Climate Researc \$ 0.015M		mate Research
<u>Services</u>	Services \$ 0.001M					
Travel 1. Domestic Travel .	Allowance	Corporate \$ 1.087M		Systems \$ 1.681M	Services \$ 1.125M	Climate & Water \$ 0.606M

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Corporate	Exec & International \$ 0.139M		Finance 6 \$ 0.026N	& budgets 1		People N \$ 0.907N	-	gement	Corp Admin \$ 0.015M
Systems	Information Technolo	gies	Observat	tions & Engin	eering	Ionosphe	eric P	rediction	Centre for Weather and Climate Research
	\$ 0.096M		\$ 1.323N	1		\$ 0.027N	М		\$ 0.235M
<u>Services</u>	Services \$ 0.015M		Ionosphe \$ 1.110N	eric Prediction	1				
Climate & Water	Climate Information S \$ 0.150M	Services	s Climate o \$ 0.041N		L	Environ \$ 0.014N		al information	C & W Information Technology \$ 0.018M
	Water Forecasting Set \$ 0.183M	rvices	Water In \$ 0.102N	formation Sei 1	vices	Climate \$ 0.098N		ater D/Director	
2. International Trave	el Allowance	Corpor \$ 0.19		System \$ 0.393		Services \$0.117M		Climate & W \$ 0.211M	ater
<u>Corporate</u>	Exec & International \$ 0.192M		People M \$ 0.004M	lanagement I					
Systems	Information Technolo	gies	Observat	tions & Engin	eering	Ionosphe	eric P	rediction	Centre for Weather and Climate Research
	\$ 0.033M		\$ 0.054N	Л		\$ 0.002N	A		\$ 0.303M
Services	Services \$ 0.007M		Ionosphe \$ 0.109N	eric Prediction	1				
Climate & Water	Climate Information S \$ 0.175M	Services		Climate & Wa 0.011M	ter Dat		C & V 5 0.00	V Information 7 6M	Fechnology

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

	-			Water Inform \$ 0.006M	ation Services	Climate & Water D/Director \$ 0.003M	
3. Passport & Visa Co	osts	\$	1,850				
<u>Corporate</u>	Exec & Inte \$ 0.0003M	ernation	al				
<u>Systems</u>	Observations & EngineeringCentre for Weather and Climate Research\$ 0.0007M\$ 0.0003M						
<u>Services</u>	Services \$ 0.0002M						
Climate & Water	Climate Info \$ 0.0003M	ormatio	n Service	S			
Domestic Airfares &	International	Airfare	es cannot	be broken down	n to a Divisiona	l or sub-Divisional level.	
Hospitality and Enter Costs for 2010-2011	financial year		18,569.41				
	1	porate 008M		Systems \$ 0.02M	Services \$ 0.014M	Climate & Water \$ 0.024M	
<u>Corporate</u>		c & Inte)08M	ernational				
<u>Systems</u>		ervation 0001M	ns & Engi	neering	Centre for We \$ 0.001M	eather and Climate Research	

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

<u>Services</u>	

Services \$ 0.014M

Climate & Water	Water Forecasting Services	Climate & Water D/Director	C & W Information Technology
	\$ 0.001M	\$ 0.002M	\$ 0.021M

ICT

Cannot be broken down to a Division or Sub-Divisional level.

Consultancy

Consultancy Services over \$10,000 or more let during 2010-11 were \$3,059,858. This figure cannot be broken down to a Divisional or sub-Divisional level.

Education/Training of staff

Corporate	Exec \$ 0.02	& International 24M	Financ \$ 0.04	e & budgets 6M	People \$ 0.49	e Management 7M	D/Dire \$ 0.02	ector Admin 1M
<u>Systems</u>	Information Technologies		Observations & Engineering		Ionospheric Prediction		Centre for Weather and Climate Research	
	\$ 0.02	29M	\$ 0.04	7M	\$ 0.00	3M	\$ 0.095	
<u>Services</u>	Servic \$ 0.08		Ionosp \$ 0.00	wheric Prediction 8M				
Climate & W	vater	Climate Information \$ 0.066M	Service	s Climate & Water Dat \$ 0.143M	a	Environmental inform \$ 0.0003M	nation	C & W Information Technology \$ 0.009M
		Water Forecasting Se \$ 0.008M	ervices	Water Information Se \$ 0.005M	rvices	Climate & Water D/E \$ 0.062M	Director	

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

External Auditing	Corporate (Finance & Budgets)	
Audit Fees for Annual Statements	\$ 0.100M	
External Legal and Membership	Corporate (People Management)	Serv

External Legal and MembershipCorporate (People Management)Services (Services)Legal Advice\$ 0.483M\$ 0.003M

Grants paid to affiliate organisations

Not applicable.

4. The Bureau of Meteorology does not budget to the program or activity level requested, hence, forward estimates for these items cannot be provided.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Program: Division or Agency:	1: BOM
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Question No: 31

Topic: Hydrological monitoring

Proof Hansard Page and Date Written *or* Written Question:

Senator Birmingham asked:

1. Please provide an update on work being done on hydrological monitoring systems in the Murray-Darling Basin.

2. Is this program being terminated at the end of this financial year? What has been achieved?

3. Where are there gaps in data? What is being done to address these gaps?

Answer:

1. The Bureau administers a discretionary grants program - the Modernisation and Extension of Hydrologic Monitoring Systems Program (M&E Program). One of the objectives of this Program is to support projects to extend and modernise monitoring of water resources across Australia.

Round 5 of the M&E Program commenced in July 2011 and will finish in June 2012. The following monitoring projects have been funded in the Murray Darling Basin through the M&E Program and are currently underway.

Recipient	Purpose	Value (GST inc.)	State
ACTEW Corporation Ltd	5ACT01.01 - Upper Murrumbidgee River Catchment Surface Water Measurement and Monitoring Improvement Project	\$242,000	ACT
Department of Trade & Investment, Regional Infrastructure & Services	5NSW07.04 - Improved measurement, logging and currency system for groundwater, stream flow and their interaction	\$95,700	NSW
NSW Office of Water	5NSW01.05 - Installation of sensors and telemetry for monitoring of surface water-groundwater interaction	\$349,800	NSW
Department of Environment and Resource Management	5QLD01.05 - Equipment purchase: Acoustic Doppler Current Profilers and underwater video systems	\$320,100	QLD
Department for Water	5SA05.05 - Improving the reliability of telemetry system	\$72,600	SA
South Australian Murray-Darling Basin MRMB	5SA13.02 - Reinstate the Willyaroo surface water monitoring site on the Angas River	\$25,960	SA
Department of Sustainability and Environment	5VIC13.01 - Monitoring instrumentation and infrastructure upgrade	\$64,130	VIC
Department of Sustainability and Environment	5VIC13.07 - Improving the quality of groundwater data and information	\$426,250	VIC
Lower Murray Urban and Rural Water Corporation	5VIC30.01 - Telemetry installation and transfer of data to the Bureau in water data transfer format	\$440,000	VIC

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

2. Yes, the final round of funding has been allocated for the 2011-12 year. The M&E Program is set to lapse in 2012, once acquittals have been completed.

The complete lists of projects funded over the five year life of the M&E Program are available on the Bureau website. Funding for each year is detailed (under the heading Funded projects): http://www.bom.gov.au/water/regulations/fundingProgram/index.shtml

As part of the M&E Program, lead water agencies in each State and Territory (except ACT) have been funded to develop Strategic Water Information Monitoring Plans. These comprehensive reports include a section that discusses the achievements of the M&E Program in each state (see http://www.bom.gov.au/water/regulations/fundingProgram/swimps.shtml).

3. Strategic Water Information Monitoring Plans have been completed by each State and Territory (apart from the ACT). The plans include sections where gaps in the data are identified and priorities for future investment are listed.

(see http://www.bom.gov.au/water/regulations/fundingProgram/swimps.shtml).

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Program: Division or Agency: 1: BOM

Question No: 32

Topic: Australian Sea Level Monitoring Network

Proof Hansard Page and Date Written *or* Written Question:

Senator Abetz asked:

1. Is the Bureau aware of the concerns voiced by Tonga's Director of Meteorology 'Ofa Fa'anunu that following the 7.6 undersea earthquake near the Kermedec Islands in early July that the Australian Sea Level Monitoring Network was 'out of order'?

2. What action has the Bureau taken to reassure the Tongan Government that any issues have been resolved?

3. Why was the Gauge out of order?

- 4. For how long was the Gauge out of order?
- 5. Were other countries in the region, who rely on the gauge, notified of it being out of order?
- a. If so, which counties and when?

Answer:

1. Yes, the Bureau of Meteorology (the Bureau) is aware of the concerns voiced by Tonga's Director of Meteorology relating to the Tonga tide gauge. The Tongan gauge is not part of the Australian Sea Level Monitoring Network. However, data from the gauge is received by the Bureau and transmitted to several agencies and updated on registered web sites as part of Australia's tsunami warning services.

2. The Bureau contacted Tonga's Director of Meteorology and reassured him that the tide gauge was fully operational throughout the tsunami event, and data was being received by the Bureau and supplied to the registered webpage provided for the Tonga Meteorological Service.

The Director of the Tonga Meteorological Service has acknowledged that the gauge was working.

3. The tide gauge was not out of order and was fully operational throughout the tsunami event.

4. Please refer to Question 3.

5. The gauge was not out of order, and therefore no notification to countries in the region was required.

5a. Please refer to Question 5.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

 Program: Division or Agency:
 1: BOM
 Question No:
 33

 Topic:
 National Plan for Environmental Information
 33

 Proof Hansard Page and Date or Written Question:
 Written

Senator Waters asked:

1. Of all the environmental information collected / coordinated through this process, is the intention to have it all centrally in one place, for ease of access? What if any of the information collated will not also be made publicly available?

2. What are the main challenges encountered so far in developing the NEIP in coordinating the collection and collation of data from state, territory and local governments, and the private sector?

3. And in relation to the challenges identified in response to (2) what steps is the Commonwealth taking to draw this all together?

Answer:

1. As a general principle it is not intended to centralise data as part of the National Plan for Environmental Information (NPEI) initiative. Rather, the NPEI aims to significantly improve the discoverability of and access to environmental data and information by working with data custodians and providers. This will be achieved by:

• creating on-line environmental catalogues that can be interlinked;

• enhancing accessibility and use of key Australian Government capabilities such as, the Atlas of Living Australia, Australian Natural Resources Data Library, Australian National Data Service, and data.gov.au; and

• developing and implementing enabling information technologies based on agreed industry standards across Australian Government key environmental data providers.

We have not yet identified any environmental data or information that cannot be made publicly available. However, we would expect some environmental information that includes the precise location of rare and threatened species or significant places (cultural and heritage) may not be released publicly. Similarly environmental information that identifies individuals would not be released in accordance with privacy laws.

2. The main challenges are:

Understanding environmental data needs:

The most significant challenge faced to date is identifying environmental data needs across the diverse portfolios of the Commonwealth Government.

Effective coordination:

Effective coordination across the Commonwealth Government in terms of access to environmental information is a key outcome for the NPEI initiative. Understanding how well environmental data needs are being met and sourced is key to improving efficiency and access.

Answers to questions on notice

Sustainability, Environment, Water, Population and Communities portfolio

Supplementary Budget Estimates, October 2011

Identifying dependencies:

Dependencies on state, territory and local governments, or the private sector for environmental data will be identified as part of the NPEI and pathways defined to support priority environmental information needs for the Commonwealth Government.

Enabling standards:

Challenges already faced in the development of the national urban air quality database include:

• Data supplied do not conform to the agreed National Environmental Protection Measures (NEPM) technical standard;

• Data collected at different frequency and different geographic detail; and

• Data licensing arrangements limit the ability to share or use the data for purposes other than State of the Air Reporting.

3. <u>Understanding environmental data needs:</u>

The Bureau of Meteorology (the Bureau) is defining environmental information needs by finalising a *Statement of Australian Government Priorities for Environmental Information*. This statement provides direction on where the NPEI should focus effort. Similar environmental information needs assessments would be provided by other jurisdictions, and this provides a template for such assessments. It will also become a key design document for the NPEI. The Bureau will define a 'top tier' of environmental information products and test them with end users.

Effective coordination:

The Bureau has established the Australian Government Environmental Information Advisory Group to provide strategic advice and identify whole-of-government priorities for environmental information. The Statement provides a catalyst for improved collaboration and cooperation across the Commonwealth Government where environmental information needs are shared. The Bureau is responsible for establishing cross-portfolio working groups to progress the specific areas of policy to specify the environmental information needs in detail.

Identifying dependencies:

An independent review of environmental information activity (due to start in November 2011) will identify dependencies and opportunities for improved coordination and cooperation with state, territory and local governments, and potentially the private sector. Also, the Standing Council on Environment and Water (comprised of Ministers from various jurisdictions) agreed on five priority topics for discussion and work.

Enabling standards:

The Bureau has established a water data transfer format that now serves as a standard for the water sector to use to exchange water data. Where standards are enabling the NPEI, the NPEI will also adopt, adapt or develop them in partnership with the end user and data provider community. NPEI will also leverage the experience of the Bureau in using standardised approaches to sourcing data from industry and individuals.