

SEQWATER'S 17 APRIL 2013 SUBMISSION ON PIE CREEK ELECTRICITY

17 APRIL 2013

From: Colin Nicolson
Sent: Wednesday, 17 April 2013 9:51 AM
To: Angus MacDonald; Matthew Rintoul
Cc: Damian Scholz
Subject: Pie Creek Electricity

Angus, Matt

Here is the updated Pie Creek electricity costs (see attachment).

I have updated the consumption charges in accordance with the contracted rate currently (i.e. 2012-13) applied by Energy Australia as evidenced in the extract from the March 2013 electricity tax invoice below. As we currently have no indication of the likely price increases for 2013-14 we have accepted the Authority's default index of 2.5%.

Note that we have applied the system efficiency of 82% as set out in our November 2012 NSP on the basis that it is the most robust estimate of longer term efficiency from the available information.

We therefore submit that the variable electricity charge per megalitre taken by customers for 2013-14 is \$70.66.

Please call me if you have any questions.

Details

13/12/2012 - 18/03/2013 - 96 Days

Energy Charges

* Everyday Saver - Business Peak Consumption (261.58824 kWh/day)^	17,788.000 kWh	\$0.2053 per kWh
* Everyday Saver - Business Off Peak Consumption (173.63542 kWh/day)^	16,669.000 kWh	\$0.1167 per kWh
* Everyday Saver - Business Supply Charge	96 days	\$1.0384 per day



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ATTACHMENT: PIE CREEK HISTORICAL ELECTRICITY

NMI	Site Name	Peak Rate c/kWh	Off Peak Rate c/kWh	Month	FY	Start	End	# of billing days	Peak kWh	Offpeak kWh	Total kWh	Period total	ML Pumped	Pumping Records From Logs
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	16.04	8.830	Dec-08	08/09	1/12/2008	12/12/2008	12	512	137	649		1.57	1.47
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	16.04	8.830	Jan-09	08/09	13/12/2008	29/01/2009	48	4,209	658	4,867		18.93	18.93
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	16.04	8.830	Mar-09	08/09	30/01/2009	16/03/2009	46	840	486	1,326		14.13	14.13
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	16.04	8.830	Jun-09	08/09	17/03/2009	28/06/2009	93	1,928	1,007	2,935	9,777	1.59	1.59
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	16.04	8.830	Jul-09	09/10	29/06/2009	26/07/2009	28	1,800	28	1,828		0.00	-
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	19.56	10.770	Sep-09	09/10	27/07/2009	15/09/2009	51	3,282	57	3,339		13.61	13.61
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	19.56	10.770	Dec-09	09/10	16/09/2009	15/12/2009	91	5,930	99	6,029		139.89	139.89
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	19.56	10.770	Mar-10	09/10	16/12/2009	15/03/2010	90	28,365	25,647	54,012		36.85	36.85
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	19.56	10.770	Jun-10	09/10	16/03/2010	16/06/2010	93	1,866	443	2,309		6.17	6.17
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	19.56	10.770	Jul-10	09/10	17/06/2010	22/07/2010	36	2,343	170	2,513	70,030	3.67	11.25
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	22.16	12.200	Sep-10	10/11	23/07/2010	16/09/2010	56	3,647	269	3,916		7.00	7.00
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	22.16	12.200	Dec-10	10/11	17/09/2010	15/12/2010	90	1,613	1,048	2,661		9.53	9.53
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	22.16	12.200	Mar-11	10/11	16/12/2010	13/03/2011	88	-	-	-		0.00	-
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	26.43	9.310	Jun-11	10/11	14/03/2011	15/06/2011	93	-	-	-		0.00	-
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	26.43	9.310	Jun-11	10/11	16/06/2011	30/06/2011	15	487	1	488	7,065	0.00	-
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	26.43	9.310	Aug-11	11/12	1/07/2011	2/08/2011	33	1,072	2	1,074		0.00	-
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	28.17	9.920	Sep-11	11/12	3/08/2011	15/09/2011	44	1,430	2	1,432		10.32	10.32
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	28.17	9.920	Dec-11	11/12	15/09/2011	13/12/2011	89	7,764	3,893	11,657	14,163	42.68	42.68
QB021771110	1111 Lagoon Pocket Rd, Lagoon Pocket	28.17	9.920	Mar-12	11/12	13/12/2011	15/03/2012	93	1,093	139	1,232	1,232	4.55	4.55
									68,181	34,086	102,267	102,267	310.49	317.97

Year	Pumped	Used	Efficiency
2008-09	64.08	63.07	98%
2009-10	204.10	205.92	101%
2010-11	20.20	16.99	84%
2011-12	57.55	68.94	120%
2012-13*	146.88	111.88	76%
Total	492.81	466.81	

Distribution efficiency = 95%
 * Six months to December 2012

Average efficiency 95%
 Avg of below average 77%
 Seqwater submitted 82%

kWh per ML Pumped	
Total kWh for period 1/12/08 to 15/3/2012	102267 kWh
Total ML pumped for period	317.97 ML
kWh per ML pumped	321.6 kWh / ML
2. Determine unit cost \$/kWh	
	Peak Offpeak
Peak/Off-peak pumping	67% 33%
Contract consumption charges 2012-13	0.2053 0.1167
Variable electricity cost (pumped) \$/ML	44.02 12.51
Total variable electricity cost (pumped) \$/ML	56.53
3. Apply distribution loss factor	
Assumed distribution efficiency	82%
Variable electricity cost per ML delivered 2012-13	\$ 68.94
Indexation	2.50%
Variable charge (\$/ML taken) 2013-14	\$ 70.66

Sensitivity
 Efficiency \$2013-14
 95% 60.99
 77% 75.25
 82% 70.66