

To The Chair of the NGPCCC, and the committee delegates.

I would like to revisit the Dec 2017 NGPCCC meeting where I raised the matter of an unanswered question submitted by Tony Pickard. It was directed to Santos.

A summary of this question: Is the outer cement used on all gas wells in Pel 238 of a type that resists Sulphate Bacteria attack? I would like to stress the word outer.

Santos's answer in writing included the statements: Santos has no SRB in its PEL 238 wells. Also – Santos bores are adequate for the environment they are in, without taking extra precautions for a bacteria not present in our systems. The answer only referred to SRB in the wells or system.

When asked again to be more specific Peter Mitchley gave a verbal answer to Tony's question, which he refused to put in writing.

The answer was : There was no Sulphate Reducing Bacteria on the outside of the wells either.

This answer is at odds with a Narrabri CCC Information Request Response provided by Santos which gives the results of 17 tests for SRB around Wilga Park, Dewhurst, and Bibbilwindi, which show positive results for SRB.

I have included a copy of these results for the EPA delegate.

Is there an explanation for this anomaly?

Stuart Murray

People for the Plains.

Information Request Response

Reference:	130722_NCCC
Subject:	Out of Session Information Request Items Narrabri CCC
Request date:	22 July 2013
Requested by:	David Ross Chair Narrabri CCC
Background Request:	<p>Email Request 22/07/2013:</p> <p>Tony Pickard has a few questions relating to the maps provided at the last meeting showing sampling sites.</p> <p>Tony has referred me back to the December 2012 meeting where the presenter quoted "SRB figures from 32 Bores" that Santos had tested in PEL 238.</p> <p>His questions:</p> <ol style="list-style-type: none"> 1. The question was for the location of those 32 <u>ground water bores</u>, not the <u>surface water</u> locations as provided. 2. On the SRB map, fig.1 NAR 7509_SURF_W 0org/ml. Please provide location and date of testing please? 3. Why no results from Bores or Gas Wells? 4. Why no results from the Dewhurst 8 Complex? 5. Why is Narrabri so well tested when there are no wells in the region as yet?
Response:	<p>Item 1 – The question was for the location of those 32 <u>ground water bores</u>, not the <u>surface water</u> locations as provided.</p> <p>As advised in December 2012, Santos cannot identify the individual landholder's bores and water qualities without their respective consent.</p> <ul style="list-style-type: none"> • The table below provides a list of bores that Santos sampled and the results. • Across the sampled locations, 10% of the bores have shown analysis with Sulphate Reducing Bacteria (SRB) present.

PEL	Core hole or ops area closest	SRB count	units	Standard unit counts org/100ml	Distance to pumped Santos well (km)
456	Kars Spring	5	orgs/100ml	5	135
456	Kars Spring	110	orgs/100ml	110	135
456	Kars Spring	93	orgs/ml	9300	135
456	Turill	8	orgs/ml	800	115
456	Kars Spring	1	orgs/ml	100	135
1	Kahlua	16000	orgs/100ml	16000	1.5
238	Kahlua	23	orgs/100ml	23	3.5
238	Kahlua	2200	orgs/100ml	2200	4.3
1	Kahlua	2400	orgs/100ml	2400	3
1	Kahlua	1080	orgs/100ml	1080	3.6
1	Kahlua	78	orgs/100ml	78	4
1	Kahlua	130	orgs/100ml	130	2.2
456	Cuan	1815	orgs/100ml	1815	125
456	Cuan	3500	orgs/100ml	3500	125
456	Cuan	3500	orgs/100ml	3500	125
238	Wilga Pk	170	orgs/100ml	170	3
238	Wilga Pk	33	orgs/100ml	33	3
238	Wilga Pk	180	orgs/100ml	180	3
238	Wilga Pk	2400	orgs/100ml	2400	3
238	Wilga Pk	790	orgs/100ml	790	3
238	Wilga Pk	46	orgs/100ml	46	3
238	Wilga Pk	78	orgs/100ml	78	3
238	Wilga Pk	15	orgs/100ml	15	3
238	Wilga Pk	2200	orgs/100ml	2200	3
238	Wilga Pk	78	orgs/100ml	78	3
238	Wilga Pk	16000	orgs/100ml	16000	3
238	Wilga Pk	230	orgs/100ml	230	3
238	Wilga Pk	49	orgs/100ml	49	3
238	Wilga Pk	23	orgs/100ml	23	3
238	Dewhurst	2400	orgs/100ml	2400	1.5
238	Bib5 GW Bore	240	orgs/ml 100	24000	0.05
238	Bib1 GW Bore	<3	orgs/ml 100	300	0.05
<p>Item 2 – On the SRB map fig.1 NAR 7509_SURF_W 0org/ml. Please provide location and date of testing?</p> <ul style="list-style-type: none"> The surface water sampling is undertaken on a monthly basis (providing that there is adequate sampling water available at the monitoring locations). The sample referenced in Fig.1 NAR 7509_SURF_W was pooled water found beside the Newell Highway (between Narrabri and X Line Road) and was sampled on 10/12/2012. The location is identified with a yellow dot (bottom left hand corner of Box BI on the map provided). 					
<p>Item 3 – Why no results from bores or gas wells?</p> <ul style="list-style-type: none"> Santos shut in all of the CSG wells shortly after purchasing Eastern Star Gas and therefore no formation water has been available for sampling. 					

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