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**Roslyn Irwin**

32 Dougan Road, Caniaba, New South Wales, Australia  
roslyn.irwin@gmail.com

05 May 2017 01:20:19 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected. I object strongly to drilling through an aquifer which will impact on the Great Artesian Basin. I object strongly to approving a development that is based on accessing non-renewable resources. I object strongly to a development that will impact negatively on our land, water and air. I object strongly to the financial impact this will have on farmers and their future. I object strongly to the impact of this on our wildlife including koalas.

As B. T. Greive said in 'Priceless: the vanishing beauty of a fragile planet (2007):

'For wildlife we are both their greatest enemy and their only hope. These wonderful creatures will not argue their case. They will not put up a fight. They will not beg for reprieve. They will not say goodbye. They will not cry out. They will just vanish. And after they are gone, there will be silence. And there will be empty places. And nothing you can say will change this. Nothing you can do will bring them back. THEIR FUTURE IS ENTIRELY IN OUR HANDS'. Well, it's now in yours. Don't let them down.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Roslyn Irwin

32 Dougan Rd, Caniaba NSW 2480, Australia

**Brian Blackwell**

4/108 Victoria Street, Spring Hill, Queensland, Australia  
briblack@onthenet.com.au

28 April 2017 05:52:49 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Experience around the world is that fracking is a dangerous undertaking. It wrecks farmland, causes pollution, spreads methane gas and is destroying the lives of hundreds of families. The threat to underground aquifers is perilous. Stop this industrial madness now before it is too late.

Brian Blackwell, 4/108 Victoria Street, Spring Hill 4000

3

**Anna Jaaniste**

33 Percival Street, Lilyfield, New South Wales, Australia  
annajaaniste@gmail.com

02 May 2017 07:11:17 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I greatly object to the proposed Narrabri Gas Project.

The risk to the Great artesian basin is too great. Water is essential - if there is anything we should save, it should be safe and secure fresh water supply. Once this is damaged, it can't be turned back, and I find this a horrifying concept. It will affect all of us.

Other risks are methane emissions, salt waste, and clearing of bushland.

Not to mention the effects of land abuse on the local traditional custodians, the Gamilaraay people.

We should be turning to renewable energy technology, not joining more resources for SHORT-TERM gain and PERMANENT damage.

Please please please - you must reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Anna Jaaniste

33 Percival St, Lilyfield NSW 2040, Australia

4

**Michael Fisher**

Grasmere Rd, Cremorne, New South Wales, Australia  
michaeljfisher@bigpond.com

03 May 2017 11:49:50 PM

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**Objection to Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project.

Coal seam gas extraction is destructive to our State, this proposal and other coal seam gas extraction proposals should be rejected by the NSW Department of Planning and Environment.

It would be irresponsible of the NSW DPE to approve of such extensive misuse of the States' ground water as desired by Santos Company.

The risk to the future of farming / the environment, which rely on the Great Artesian Basin for water, from coal seam gas drilling is a risk the State should not take.

Destruction of the Pilliga Forest has no redeeming aspect - it is destruction - completely non-environmental.

As we have recently learnt through the press, coal-seam gas extraction does practically nothing for Australians financially. We are being ripped off, both environmentally and financially. In terms of planning, there is no benefit to Australia.

The NSW DPE has a responsibility for managing the States' planning and environment into the future. If this project is allowed to go ahead the future the Department will have to deal with will be a lot poorer. It should plan for preserving the environment and not for its destruction.

I urge the NSW DPE to reject this proposal.

Signed,

Yours sincerely,

Dr Michael Fisher

Grasmere Rd, Cremorne NSW 2090, Australia

S

**Jasper Vader**

South Hobart, Tasmania  
jasper\_vader@yahoo.com

04 May 2017 11:27:29 AM

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**Gas Fracking Involves The Use Of Depleted Uranium Heads**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Why? I'm glad you asked.

Although gas fracking companies have employed information cloaking regarding this matter, it is now confirmed that depleted uranium \*is\* in fact being used as a material for Gas Fracking Drilling Heads.

This is not acceptable.

Not only but also, going down a kilometre into the earth's mantle dislodges naturally radioactive substances.

If there is merely an earth tremor, these fracking wells cannot resist and will give in and crack slightly.

These fracking wells travel through igneous shale rock surrounding water tables 200m below the surface. Humans use the water that filters up from these tables to drink, to farm, to clean, to swim and to relax. Communities. Entire towns. Cities.

Coal seam gas fracking mining practices are inadvisable to say the least. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Jasper Vader

South Hobart, Tasmania

6

**Michelle Keating**

56 Mill St, Riverstone, NSW, Australia  
mitzy\_mandl@yahoo.com

27 April 2017 09:50:50 PM

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**I object to Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

RE: Narrabri Gas Project EIS.

I object to this project and believe it should be rejected due to the lack of evidence that suggests Coal Seam Gas exploration within the Artesian Basin is without complication.

I do not believe as a community member in NSW our land should be placed at risk, nor should our agricultural lands and economy be impacted by something that has a short term financial outcome for a corporation.

I strongly believe in the application of the precautionary principle where there is limited similar evidence to suggest that the outcome of CSG exploration will be positive for our community. As a mother of two young children and a landholder in the lower hunter, I believe that my children and their children have the right to a future similar, if not better to my own. Placing our land and water at risk through CSG is at a discourse with this desire.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining. I very much recognise that the Pilliga sites are merely the testing ground for approvals and all other locations will follow suite accordingly once Pilliga has been approved.

NSW say no and so do I.

Signed,

Yours sincerely,

Michelle Keating

56 Mill St, Riverstone NSW 2765, Australia

7

**Melinda Tumino**

260 Woolamai Road, Bass, Victoria, Australia  
m45melinda@hotmail.com

08 May 2017 12:55:06 AM

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**The Narrabri Gas Project would be Ecocide.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Over 90% of the community around the area are opposed to Coal Seam Gas extraction.

The international law of Ecocide is strengthening. Soon the Australian people will be able to take Santos, and possibly the Australian government, to court for knowingly committing Ecocide.

I urge the Government to reject this project. The Great Artesian Basin recharge must be off-limits to unconventional gas mining.

Signed,

Yours sincerely,

Melinda Tumino

260 Woolamai Rd, Bass VIC 3991, Australia

8

**phoebe torzillo**

419 Stony Chute Road, Stony Chute, New South Wales, Australia  
tvfinale@gmail.com

05 May 2017 02:50:39 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The Great Artesian Basin is fragile, unique, and irreplaceable. No mining, especially not Coal Seam GAs, should take place anywhere near it.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

phoebe torzillo

419 Stony Chute Rd, Stony Chute NSW 2480, Australia



9

**John Edye**

110 Wirrimbirra Lane, Cedar Brush Creek, New South Wales, Australia  
johnedye@gmail.com

04 May 2017 08:52:01 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Its time for the CSG mining insanity. All of the environmental devastation it will cause just to line the pockets of Santos investors. It will clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife. It will cause significant diversion of water from a recharge aquifer of the Great Artesian Basin, which is a water resource relied upon by rural communities across western NSW. It will lead to large deliberate and fugitive emissions of methane, adding to climate change. All of this to line the pockets of Santos investors. It will cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people. Stop this absurd mining assault on our landscape and wellbeing.

Signed,

Yours sincerely,

John Edye

110 Wirrimbirra Ln, Cedar Brush Creek NSW 2259, Australia

10

**peter cameron**

Arumpo Road, Arumpo, New South Wales, Australia  
peter@petercameron.com

30 March 2017 07:29:29 PM

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**The Narrabri Gas Project**

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Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This Narrabri Gas Project should never go ahead.

If we are to believe in any future for our children and grandchildren that has beauty and a connected natural system we must listen.

We have decimated aboriginal ways enough! Please consider the ongoing life of Gamilaraay people.

Land is for people and all forms of life.

It is NOT just a resource for short term gain

Please educate your spirit, your soul!

Yours sincerely,

peter cameron

Arumpo Rd, Arumpo NSW 2715, Australia

**Regina Hastings**

March Street, Maryborough, Queensland, Australia  
tertia@gmail.com

30 March 2017 07:22:22 PM

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**Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project being implemented and as an Australian citizen request that the government reject it.

It is beyond comprehension that the government could even think of allowing a project of this nature to be implemented with the potential impacts to the Great Artesian Basin and the environment and livelihoods of people in that region. It will affect everyone who is reliant on the GAB for environmental services and if you as a government does not understand the environmental economics of what is provided in the natural resources that you are so keen to destroy then you should employ persons who do understand environmental economics and can actually put a dollar value to what you are destroying versus the dollars you are gaining in the very short term.

We, the people of Australia, whether we live in Queensland, Victoria, New South Wales, Western Australia (ACT is exempt it seems for obvious reasons) are tired of a government who sells out their country under the pretension of jobs and boosting the economy for the country. There are many other options to pursue to boost the economy and there are endless renewable energy possibilities, coal seam gas is not a necessity and only benefits the multinational companies that own them as well as the elite few who get side benefits from their approvals.

It destroys our environment, it destroys the livelihoods of those who live in the areas where it is implemented, it is short term financial gain for a very few and we are tired of putting up with these mines. Get yourself informed of renewable resources and the jobs this could provide as well as the potential export of knowledge through the implementation of these projects. Take a stand for your own people for a change. Your children cannot eat or drink money and if the Australian government continues to destroy its land and water resources, there is going to be nothing left for your children in this beautiful country.

Signed,

Yours sincerely,

Regina Hastings

March St, Maryborough QLD 4650, Australia

12

**Edward Marsh**

76 Peronne Avenue, Clontarf, New South Wales, Australia  
egmarsh@hotmail.com

30 March 2017 06:49:04 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

In the 21st century we no longer require more gas as the rapid implementation of renewable and sustainable technologies can and will fill our energy needs - domestic and commercial.

Now and into our childrens' future the retention of the Pilliga Forest, avoidance of salination of groundwater, avoidance of salt waste, the safety of high value food and fibre production in the Narrabri region are compelling reasons to reject drilling for an out-dated energy resource.

Yours sincerely,

Edward Marsh

76 Peronne Ave, Clontarf NSW 2093, Australia

~~13~~  
13

**Sallyann Doyle**

Cassilis Road, Omeo, Victoria, Australia  
cassilis3@activ8.net.au

30 March 2017 06:18:17 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

because it spells the end of the Pilliga Woodlands, a completely unique ecosystem, and already a remnant of what this beautiful woodland used to be. So much has been lost already. Please use your ability to protect this area, and reject this project.

I heartfeltdly urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Sallyann Doyle

Cassilis Rd, Omeo VIC 3898, Australia

14

**Lynette Grabbe**

Humeburn Road, Cunnamulla, Queensland, Australia  
nooralaba@skymesh.com.au

30 March 2017 05:55:19 PM

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**SHOW SOME SENSE! What will Australia look like in 50 years? This is the world your grandchildren will live in! Please reject the Narrabri Gas Project. If you don't care, do it for them.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Why is private land confiscated for PRIVATE gain? The law provides for this only when it is for PUBLIC good, and even then, it should be for matters of health, life and death - not GREED.

I object to this project and believe it should be rejected.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Lynette Grabbe

Humeburn Rd, Cunnamulla QLD 4490, Australia

15

**Ricky Jones**

Bangalow Road, Byron Bay, New South Wales, Australia  
service@buildingspaces.com.au

30 March 2017 06:16:03 PM

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**Please reject the Narrabri Gas Project**

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Don't dabble with what is working perfectly.

CSG has to be banned! It is horrendous what permanent damage this practice does for such short gain.

There aren't even any long term gains from this No for brains Boys mentality to just go in there and destroy what the earth has given to us.

Leave it alone! Instead go and play in the sand on the beach and everyone will be happy including yourselves! Total moronic idiots!

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Ricky Jones

Bangalow Rd, Byron Bay NSW 2481, Australia

16

**Richard Walsh**

183 Burns Road, Glenburn, Victoria, Australia  
rawalsh@hotmail.com

31 March 2017 01:50:16 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This is a time for us to take a strong stand for our common home, now and into the future. We humans are a significant factor in the environment of Earth and we have the choice to act for all of life or to continue to be blind and destructive. There is no middle ground.

Please walk with those who care about the bigger picture and prevent this project with its known and its unforeseen consequences.

Yours sincerely,

Richard Walsh

183 Burns Rd, Glenburn VIC 3717, Australia



17

**Ben Rumble**

40 Edward Street, Carlton, New South Wales, Australia  
captain.cumquat@gmail.com

31 March 2017 01:43:09 PM

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**The Narrabri Gas Project must be rejected to protect the agricultural future of NSW**

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Executive Director

Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Dear Sir/Madam,

RE: The Narrabri Gas Project EIS.

I submit this document to you in order to state my strong objections to the above-named project, which I believe should be rejected for a variety of reasons.

The project will see over 35 billion litres of salt laden groundwater extracted from the land, much of which will be released within the first 5 years of its operation. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is currently no safe disposal plan in place. In addition, it will necessitate drilling through a recharge aquifer of the Great Artesian Basin and drawing water from a naturally available resource relied upon by rural communities across western NSW. This drilling will result in methane gas being emitted in large quantities from related mining activities including venting and leakage, significantly increasing the already devastating impact of climate change throughout the state. It will place the region's agricultural industries at risk and cause airborne pollution that will make it difficult if not impossible for the internationally renowned Siding Spring Observatory to continue its current operations due to decreased visibility. The impact it will have on the nearby community of Narrabri will also be economically and socially devastating.

Nearly 1000 hectares of the Pilliga Forest will be affected by this project, fragmenting the largest temperate woodland in NSW which is currently home to some of its most unique native flora and wildlife. The region's indigenous community — particularly this land's traditional owners the Gamilaraay people — will also be significantly affected as the project threatens to destroy most if not all of its remaining spiritual and cultural heritage.

The project is not justifiable on economic grounds, given that Santos' coal seam gas exportation activities in Queensland have seen gas prices rise while overall supply levels continue to fluctuate, making the supply of gas itself highly unpredictable. Independently conducted American research has shown that coal seam gas is detrimental to human health, particularly to that of children, the elderly and those suffering from chronic respiratory conditions. Neither the NSW Government nor Santos have bothered to investigate or properly address the serious long-term health effects of this project or the impacts it will have upon these high-risk groups and the general population.

The NSW Government should respond to our state's energy crisis by investing in cheaper, more reliable, non-polluting forms of renewable energy, not by allowing Santos to inflict more environmental and social damage on our already over-mined, ecologically compromised natural environment.

I join the people of Narrabri in urging the NSW Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining to protect the future of agriculture and human health in our state.

Yours sincerely,

Ben Rumble

NSW Citizen and Voter

paul bambrick

21 School St, Yeppoon, Queensland, Australia  
paulthegreenie@hotmail.com

31 March 2017 05:19:27 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project's EIS process is flawed and inadequate, and lacks detail and credibility. Where will wells be bored, pipelines run, lights motors and flares and their associated pollution be sited? This is priceless critical remnant habitat and the project's impacts cannot be assessed by science, the public or the government. The EIS must be rejected. Likewise the project's effect on the Great Artesian Basin cannot be quantified or offset thereby putting at risk the lifeblood of country NSW. Climate change is starting to bight and Australia's highly variable climate means we will bear the brunt of our addiction to fossil fuels. Our economy needs to transition away from highly polluting extractive industries such as CSG, whose profits have largely gone overseas and left Australia the poorer.

Yours sincerely,

paul bambrick

21 School St, Yeppoon QLD 4703, Australia

19

**Kathryn Kelly**

18 Coghlan Street, Chifley, Australian Capital Territory, Australia  
kathrynk09@gmail.com

31 March 2017 03:29:22 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Narrabri Gas Project EIS submission.

This project should not be approved for the following reasons.

The project will take an unacceptable amount of groundwater from the Great Artesian Basin and will leave a huge waste problem of tonnes of salt waste. We cannot keep taking the Great Artesian Basin for granted when so many extractions are taking place, not only in New South Wales, but also in Queensland.

Clearing of the Pilliga forest will destroy the habitat of innumerable animals living there and will act against our greenhouse targets, by destroying a significant segment of our carbon sink.

Studies have shown that methane leakage from gas production is significant and negates the benefits that were thought to arise from using gas as a fuel rather than coal. We don't need to use coal or gas, when we have solar and wind power resources and now battery storage and off-river hydro storage are viable means of ensuring continuity of supply of energy.

The Gamilaraay people have already been impacted adversely by coal projects in the region. They should not be further adversely impacted by this unsustainable project.

Coal seam gas, along with coal, is an unhealthy source of energy and studies are increasingly providing documented evidence of this health risk.

This project must be rejected.

Signed,

Yours sincerely,

Kathryn Kelly

18 Coghlan St, Chifley ACT 2606, Australia

20 / Page 1/2.

**Peter Wills**

1 Moffatt Street, Breeza, New South Wales, Australia  
peterjameswills@hotmail.com

05 April 2017 08:09:11 PM

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**Please reject the Narrabri Gas Project**

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To the Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas EIS

My name is Peter Wills. I am a Breeza (NSW) resident, living in the village itself. I work in Gunnedah, and my immediate family has farming (cropping and grazing) operations based in Quirindi NSW.

I strongly object to this project, and strongly believe it should be rejected.

As a resident of the Gunnedah shire, I am gravely concerned by Santos own statement in referral to the Federal Governments Environment Protection Biodiversity Conservation Act, page 65 "the duration and... extent of depressurisation of groundwater head within the coal seams and adjacent strata will cause significant impact to the groundwater resources of the Gunnedah – Oxley Basin"

Does this clear admission here, admonish the Company of future responsibility?

This project will extract over 35 billion litres of toxic groundwater, creating as a by-product, tens of thousands of tonnes of salt, with no disposal plan detailed. My fear is when this water is extracted from lower deep aquifers, that higher, cleaner aquifers could drain lower into the voids created by this extraction of water. Can the project guarantee that there is no connectivity between aquifers, and what would stop wells themselves deteriorating over time, and water naturally finding its way lower via this man made instrument, that amongst its primary functions is to extract water from deep aquifers. What is stopping the reverse flow from higher intercepted flowing aquifers?

Santos has already contaminated an aquifer in the Pilliga, with heavy metals and uranium 20 times the safe drinking water standards. The company has been fined for wastewater discharge into a local creek, and been prosecuted for environmental harm as a result of major spills and wastewater leaks.

I think this proposal should be tested and processed, in alignment and environmental consideration, with the future stages of this project. The Narrabri project in the Pilliga is only stage 1 of 7 planned gas fields. We need to understand as a community what the full rollout looks like, and understand the ramifications of them all as a whole. And would suggest only 1 project wouldn't be financially profitable and prudent, (as confirmed by Santos in their 2015 Full year report) and they require a full rollout as broad as possible for the economics to add up.

In addition, I am of the belief that once the CSG has flowed from the wells 'naturally' under existing pressure, that 'Fracking' of these wells would then be desirable in the future to maintain supply and flow of product. Chemically Fracking these installed wells would maintain the project and its infrastructure and lifespan, well beyond CSG production. This option must be ruled out now as a future allowable condition of this project, so the company is aware of this condition/position going forward.

20 / page 2/2

I am extremely concerned and aggrieved that Australia's largest intact temperate eucalyptus woodland, the Pilliga State forest, is to be changed and 'soiled' forever more, by this relatively short term project. This woodland has stood untouched for millennia, and is relatively as intact as possible considering areas that have been turned over to farming/grazing opportunity's over the last 200 years. This project will decimate the forest as a whole, clearing aspects of the forest for tracks and well pads. And beyond the life of the project, it will be soiled by the remnant industrialisation of this project. The Pilliga will be forever more unrecognisable, and its integrity decimated for future generations. This will cause recreational use of the forest to be severely compromised, with local businesses who rely on tourism trade and travellers such as grey nomads, deterred from travelling thru this unique region.

I strongly doubt and question the actual job numbers that will be created, and fear they are over inflated, and that many will be fly in, fly out, based workforce, detrimental to the local community.

We have seen time after time these stated job numbers grossly over inflated, and when tested by independent analysts these numbers have been refuted, I sight for example, Adani coal mine in Queensland, who stated 10,000 jobs, but when tested, it was revealed the actual amount was 1,464 jobs. These statistics put out by these proponents must be tested individually, and independently.

The data that these project owners present will always be, in my opinion, flawed and preferenced/preferential to their position and case. And community groups can't possibly dispute the company findings in an equal way, considering the money these large propositions spend on creating their EIS documentation.

I fear this project wouldn't be able to cope with extreme weather events that are subject to occur, and seem to be with more regular occurrence. Recently (22-23 March 2017) in the Spring Ridge location, one particular farmer had 200mm of rain on his property over a 8 hour period. This event caused extreme damage to farm contour banks, and left some large paddocks inundated/under 30cm of water. These events can occur anywhere during storm seasons. What sort of damage could this do, should this type of event occur, to the Pilliga, Narrabri Santos project. How would project dams/ponds react and cope in this type of an rainfall event? How would cleared forest with hard wet weather tracks cope in such an event?

This invasive industry, that has taken hold predominantly in Queensland, is causing much angst and community disharmony within new and potential areas for this industry.

There have been many communities across the state, and country wide, that have declared themselves 'Gas field Free' and would like to keep this community proclaimed status. Many regions and even states across Australia have had Gas Bans invoked via their state parliaments. Why are these locality's in a broad stroke ban, more important than the Pilliga region, or the surrounding community that are opposed to this project.

Politically there is significant objection to this industry, strongly led by the Greens, followed with NSW Labor, who have a state-wide CSG moratorium as policy; and even somewhere in the cold dead beating heart of The National party, under extreme political pressure (ie: electoral wipe-out) eventually worked to enable a CSG ban in the Northern Rivers of NSW. With this political & strong community social movement only building and growing, I think it would be futile for the proponent – on these mere points alone – to consider progressing with this ill thought out, out of date project.

I strongly feel this project should be refused.

Peter Wills

'St Marys'

1 Moffatt St

Breeza, NSW, 2381

21

**Carole Baker**

Unit 2, 96 High Street, North Sydney  
cliffbnk@bigpond.net.au

31 March 2017 12:51:09 PM

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**Objection to the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Narrabri Gas Project EIS submission.

Although I now live in Sydney, I have a connection to the Narrabri area as my family has ties to the area, where they have successfully farmed. I strenuously object to this proposal.

To approve this project would amount to environmental vandalism. It would irrevocably destroy good farming land and most likely would pollute below ground water catchment.

I understand that over 35 billion litres of salt laden groundwater, would be extracted. This treated water will generate almost 500,000 tonnes of salt waste. I believe that there could be no safe disposal plan. How could any sane person or body countenance this?

I object to the use of the aquifer of the Great Artesian Basin - a water resource relied upon by rural communities across western NSW.

The clearance of close to 1,000 hectares of the Pilliga Forest, would decimate the forest and wildlife. It beggars belief that this would be sacrificed for cheap gas when the world is currently awash with it. I object strongly to this.

The project is not justified: Why would we, as Australians countenance Santos' coal seam gas export activities, for their profit when we know that in Queensland this activity has caused gas prices to rise and supply to become unpredictable?

This SCG mining activity will cause light pollution, ruining the dark night sky necessary to the Siding Spring Observatory.

I urge the rejection of this project.

I urge that the Great Artesian Basin recharge be made off-limits to gas mining.

If you would like to discuss my objection in greater detail, please contact me on 0419996542

Yours sincerely,

Carole Baker

Unit 2, 96 High Street, North Sydney

22

✓  
lucy mammone

3665 The Bucketts Way, Krumbach, New South Wales, Australia  
mammonel@westnet.com.au

03 April 2017 09:16:31 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project

The methane released by this type of mining is contributing to climate change as will the proposed tearing down of the forest, not to mention the effect on the unique native wildlife who's home it is. Climate change is and will affect the population's safety by effecting weather patterns; more extreme weather events will occur and food production will be very vulnerable.

It is my understanding that many of the possible hundreds of toxic chemicals that could be used for Coal seam gas (CSG) mining have not thoroughly been tested when mixed together, as they would be in CSG fracking processes. In addition to the hugely detrimental effects of salinity on the land which is well known and will be a guaranteed result of this noxious process. The chemicals used are completely poisonous at minute levels and a safe ppm has not yet been established. Many of these will have long term affects on health the extent of which are still unknown, the shorter term detrimental effects are now documented in latest research. These mining processes also liberate harmful elements which are safe when left undisturbed underground. If any of these enter our food chain and our water, how are they to be removed or neutralised? If the answer to this is not known, how can coal seam gas and similar mining are allowed to continue? They should immediately cease this invasive harmful process.

If these gas fields are allowed to progress the deficit in ground water from the millions of litres of water used in the mining process will be lost, the artisan basin and its natural recharge system is surely an asset any sensible government would actively and diligently protect. Since the government is in place to represent the population I request that you do not allow any mining activity to put this important and wonderful source risk

Surely clean potable water and food production are to be some of the major challenges of the future while there are many sustainable i.e. non polluting options, for power production. It seems to me it is just that Coal seam gas mining is mainly about making companies such as Santos rich in the short term while completely ruining the environment and peoples' health in the long term. Livelihoods and local individuals' assets and culture are all to be damaged and these people will have no future which in turn will lead to social problems in addition to leaving the land and water poisoned long after the gas has been removed and used up.

Santos has been instrumental in causing the so called problems with gas price and supply, so granting them more ability to continue is ludicrous; they have proven that they are not a dependable and responsible company. Anyone without a vested financial interest in Coal seam gas can intelligently deduce that it will at the very least be hugely detrimental.

Our water, our health, and the land and culture require protection and not subjection to such an absurdly dangerous scheme. I intensely object to put this project as it will put the health of the population at risk, polluting the land and water indefinitely and contribute to climate change.

Thank you for your consideration and morality in dealing with this issue

Yours sincerely,

Lucy Mammone

23 page 1/2

David Bray

260 Gilloglys Road, Bulga Forest, New South Wales, Australia  
davidmbray@yahoo.com.au

03 April 2017 07:23:27 PM

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**Objection to the proposed Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The EIS for the project does not appear to have addressed 'fugitive' emissions of methane from production wells. While some argue that such emissions are likely to be relatively small, the actual levels of emissions have not been studied in sufficient detail to rule out significant impacts. The levels detected in studies in the USA suggest that 'fugitive' emissions could represent 2-17% of the total gas output. These levels are sufficient to nullify the claim that gas has less overall greenhouse emissions than coal (<http://www.abc.net.au/news/2017-02-28/methane-emissions-from-coal-seam-gas-climate-change/8310932>).

The proposal addresses wildfires in that "a Bushfire Management Plan would be prepared in conjunction with landholders and the NSW Rural Fire Service, with components under the proponents control implemented for the project to mitigate this risk. This document would include: identification of specific asset protection zones and strategic fire advantage zones around assets where vegetation management is required." However, serious wildfires are a regular occurrence in the Pilliga and tend to occur during El Nino events ([https://en.wikipedia.org/wiki/Pilliga\\_forest](https://en.wikipedia.org/wiki/Pilliga_forest)). Protecting the project infrastructure from large, intense fires will require large areas of "vegetation management". These have not been considered in the environmental impacts on flora and fauna. Given that the whole gas field will be a grid of wells, the potential impacts may be significant, both for loss of habitat for threatened species and for fragmentation of existing habitat.

The EIS does not appear to have adequately addressed the potential for the project to assist pests and weeds to access the area. These can arrive via vehicles, machinery and along the network of access tracks that will be created. The proposed measures to deal with well-known pests (such as cats and foxes) and weeds are positive, but lesser-known pests will need to be included. An example is the Big-headed Brown Ant (*Pheidole megacephala*) which has potential to be inadvertently introduced and can seriously disrupt invertebrate communities.

In general, the impacts of the project on flora and fauna can not be assessed with confidence as the actual locations of the wells have not yet been determined. Although the locations will be made available "at least" 30 days in advance of installation this period is insufficient for a suitable assessment of the suitability of the locations.

The EIS considers the implications should the project not proceed, but does not address the implications if the project fails to be completed. In the current volatile economic environment even large companies such as Santos may not survive the duration of a project such as this. There is no provision for such eventuality, leaving the option that taxpayers could be required to pay for the decommissioning of the project. It would seem reasonable that the proponent should provide an appropriate bond to cover this possibility.

Similarly, it is not clear that the conditions of consent can be enforced. The EIS suggests that monitoring of progress will identify problems and that we can trust Santos to make relevant adjustments, but there appears to be no effective motivation for them to do so. Given the complexity of the environmental issues and the monitoring process it seems likely that failure to meet the consent conditions will not be taken seriously.

There is no economic justification for the project. The gas produced at Narrabri might be as little as 4.9% of the volume contracted for sale out of Gladstone. This is unlikely to bring down prices. In fact, it is more likely to force prices up, because unconventional gas like CSG is relatively expensive to produce and yields are relatively low. Research undertaken



23 page 2/2

by gas company AGL shows that gas from the Pilliga would be the most expensive gas anywhere in the current east coast gas market. The number of jobs the project will support once the construction is over is just 145.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

David Bray

29

**Cindy Fox**

Lambert Street, Bathurst, New South Wales, Australia  
cindymaybailey@gmail.com

03 April 2017 07:34:58 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

We are currently paying, in so many forms, for the unwise decisions of the past. The difference this time is knowledge. The effects of this project are known, and they're not good. Reject the proposal for the sake of future generations, including your children's children.

Signed,

Yours sincerely,

Cindy Fox

Lambert St, Bathurst NSW 2795, Australia

25

**Elsa Martin**

59 Research-Warrandyte Rd, North Warrandyte, Victoria, Australia  
elsamarymartin@gmail.com

03 April 2017 09:05:27 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The dangers of coal seam gas extraction are still unknown. How often have we found that disasters occur when we are interfering in the natural world in such an intrusive way.

Using renewable energy sources seems to be the modern answer to energy production and besides being safer it makes sense, benefits the climate and is sustainable.

Coal gas extraction will affect the ground water and have other deleterious effects on the area.

Yours sincerely,

Elsa Martin

59 Research-Warrandyte Rd, North Warrandyte VIC 3113, Australia

26

**Helen Smith**

27 Glenview Street, Greenwich, New South Wales, Australia  
helenesmith55@gmail.com

04 April 2017 07:24:35 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project. I do not believe that a project like this can co-exist with agriculture in our prime agricultural areas.

The problems are the amount of salt laden water which will be extracted. Is there a safe disposal plan for the salt?

And I think artesian basin water should not be used by these polluting industries. There are countless small communities that rely on this precious water resource.

I believe that the beautiful Pilliga should not be trashed by csg mining.

Regards

Helen Smith

27 Glenview St, Greenwich NSW 2065, Australia

27

**John Lazarus**

6 Bunjil Place, Byron Bay, New South Wales, Australia  
jahlazarus@yahoo.co.uk

02 April 2017 01:00:06 PM

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**Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Submission in Objection to the Narrabri Gas Project EIS.

I object to this project.

1) The Oil Industry has clearly identified that there is more than 100 years of gas available associated with our existing oil wells, and vastly more in the oil and gas field now being investigated off Timor.

2) The Coal Seam Gas industry has sabotaged both our CSG and oil field gas resources by sending these resources overseas, subsidized by higher domestic pricing - sabotaging Australia by reducing our natural asset base and ripping off Australians to subsidize overseas users.

3) Coal Seam Gas wells have massive furtive emissions of the potent Greenhouse Gas Pollutant Methane, issuing from the broken fracked ground structure, and this unaddressed and unaddressable Pollution will continue for decades after the CSG mine is closed. People are dying now from the climate impacts of carbon pollution. Australias Criminal Justice System identifies that ' Callous disregard to the impacts of an act that causes death is classed as Murder'. Stop this toxic industry, or be judged as a party to murder and crimes against humanity, and be forced to confront the peoples right to defense against your facilitation of climate change deaths and destruction.

4) Under the Native Title Legislation there are specified the resources that Native Title Holders must allow the crown to mine. Coal Seam Gas is not on the list and I urge you to recognize that Native Title Holders have the right to deny Coal Seam Gas Mining on their land.

5) The present level of emissions from burning Coal Seam Gas, and these present wells Furtive Emissions, have contributed to the bleaching of the Barrier Reef. We have lost a massive amount of Australias' wild fish food production from the damage to this food habitat. The GBR is also the main reef for the annual coral spawning that regrows reefs in the Pacific Ocean, and as such a provider of food for many Pacific nations. The CSIRO has also identified the loss of production from climate change in our wheat and cotton crops. Stop destroying our capacity to feed ourselves. The Barrier reefs bleached areas will not stand up to Cyclones. There will now be breaches of the GBR as a Barrier, and storm waves will now smash directly onto the coast. When Queensland's coastal properties start to fall into the sea, part of the blame sits with you for your consents to pollute by CSG.

Stop your headlong pursuit of profit by your consent for the destruction the capacity of people to live on this planet.

Signed,

Yours sincerely,

John Lazarus

6 Bunjil Pl, Byron Bay NSW 2481, Australia

28

**Pamela Laing**

362 Hogans Rd, Upper Lansdowne, New South Wales, Australia  
pietapops@gmail.com

02 April 2017 01:02:02 PM

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**The Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

To be approved, projects should have social, environmental and economic benefits.

Csg mining has been proven to have damaging impacts on communities. I doubt there is one instance where communities 5 years after csg still think it is a good idea. Just ask people in the USA.

Environmentally, the mining companies say it is a good idea. The reality doesn't back this up. Just look at the environmental impacts existing csg has had.

Economically, governments seem to think it is a good idea but once again, apart from the spin by the mining companies, where is the evidence to back up the claims. There may be short term positive impacts from an injection of funds into an area, but longer term property values and farming communities go into decline.

I ask you to talk to people who have been affected in other areas. Do you really want to be the person responsible for destroying the environment and people's livelihoods. The public service should be able to give advice freely and so I hope you will advise the government that csg mining anywhere is not a good idea.

Yours sincerely,

Pamela Laing

362 Hogans Rd

Upper Lansdowne 2430

29

Chris Guy

7 Myall Close, Nowra, New South Wales, Australia  
cguy0611@gmail.com

30 March 2017 10:26:04 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Santos has no business tampering with this country's Great Artesian Basin. It will do irreversible damage to this beautiful area. These areas should be left alone for the people and future generations of this great country to enjoy.

How the government can allow mining in an area

that is so sensitive and so old defies belief.

Money is behind everything - and where would most of it go if Santos was given the green light to frac, overseas. It has little benefit to the people of this country. The only thing it will do is destroy lives and put this delicate/fragile beautiful piece of Australia at risk of being destroyed. We've heard all the typical garbage the mining companies spin. They can take their spin doctors and mining elsewhere, I don't want it, my kids don't want it, and the future generations Australians don't want it. It's raping our country that our forefathers have fought for, take your business elsewhere Santos.

I hope the government is prepared for a huge fight.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Chris Guy

7 Myall Cl, Nowra NSW 2541, Australia

30

**Devon Fletcher**

Mt Tamborine  
devonfletch@hotmail.com

30 March 2017 11:57:33 PM

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**Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

This fossil-fuel extraction project is just so wrong for many reasons.

The concept is fundamentally flawed in so many ways, it is hard to know where to start.

Fossil fuels are history, and the unseemly haste to sell off as much as we can, before they are forever banned (thanks, Bob!), is cynical in the extreme.

The network of roads and pipes will effectively fragment the habitat for a myriad of small animals who depend on contiguous cover over large areas.

The risk to the Great Artesian Basin is very high indeed, and will do even more damage to the economy than the dying of the Great Barrier Reef, which will be hastened by the CO2 load the project will inevitably produce.

The rape of the ancestral land of the local Aborigines is a blatant statement of Colonialism of the sort that was, and still is, so prevalent in our society.

The project will strip billions of litres of water from the system, and add God knows what poisons to the land.

It is ALL WRONG!

Please, do what you can to stop this madness. Your grandchildren will remember you by the decisions you make on this issue, believe me!

Yours Sincerely

Devon Fletcher

Tamborine Mtn



31

**Gillean Patterson**

Murrurundi  
gillypat@iprimus.com.au

02 April 2017 03:20:46 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Re: Submission to halt the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Protect our valuable Water. The health of our Great Artesian Basin is paramount for our future.

One slip and we are doomed.

Can Santos GUARANTEE 100% that the Aquifers will not be affected? I think NOT.

Santos shows where it's allegiance is... profit for exporting GAS.

It is about time we pushed for RENEWABLE Energy. Ask you R&D Departments to start designed them NOW.

Our Australian Government (who is employed by US) should reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Gillean Patterson

Murrurundi

32

**Emma Kozianski**

655 Pheasants Nest Road, Pheasants Nest, New South Wales, Australia  
e.kozianski@gmail.com

02 April 2017 04:52:28 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to the approval of the Narrabri Gas Project.

I know you will receive many submissions detailing the negative environmental impacts of this scheme. In particular, I believe the risk to the Great Artesian Basin is especially foolish given how precious this water supply is to the region and its industries.

On a personal level, I am appalled by the Narrabri Gas Project because the Pilliga region introduced me to the spectacular natural beauty of our country. It was the beginning of a lifelong fascination with rural life and environmental conservation. I gained an understanding of the power of healthy stands of bush to heal and to inform our sense of national identity.

As a GP in training, my professional goal is to practice rurally and to help deliver much needed health services to rural and Indigenous communities. The seed of this passion was planted by the Narrabri region and the Pilliga Forest.

Please protect the Pilliga and its surrounds from gas and mining projects - they hold meaning and power which is irreplaceable.

Yours sincerely,

Emma Kozianski

655 Pheasants Nest Rd, Pheasants Nest NSW 2574, Australia

33



**Andrea Beevers**

55 Lislane Street, Ferny Grove, Queensland, Australia  
andreambeevers@gmail.com.au

01 April 2017 07:37:22 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Yes, I do live in Queensland. I have seen first hand the damage CSG does to the water supply. I have friends in Chinchilla who can't drink the water on their own property.

I could fill this letter with the known dangers of CSG. The councils of Northern NSW saw what happened in QLD and gave CSG the flick.

You could be wiser and stop it before it costs you a bundle of money, and votes.

Signed,

Yours sincerely,

Andrea Beevers

55 Lislane St, Ferny Grove QLD 4055, Australia

34

**Ros Leslie**

946 mt glorious rd highvale  
rleslie2@bigpond.com

26 April 2017 10:08:09 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This type of project has obvious long term environmental and social impacts that will affect current and future generations.  
And is ultimately destructive with far reaching consequences.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Ros Leslie

946 mt glorious rd highvale

35 page 1/2

**Georgia Byrne**

51 Stoneleigh Street, Albion, Queensland, Australia  
georgiabyrne@gmail.com

"Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

My grandfather was a farmer and his property bordered the Pilliga Forest. He now lays to rest in the Pilliga Cemetery which sits in the middle of the Forest. To think of these effects as described above on this land makes my heart breaks. It makes me recall the poem that reads upon on grandfathers grave stone there in the Pilliga, "Is My Team Ploughing" by A. E. Housman;

"Is my team ploughing

That I was used to drive And hear the harness jingle

35 page 2/2.

When I was man alive?"

Ay, the horses trample,

The harness jingles now;

No change though you lie under

The land you used to plough."

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Georgia Byrne

51 Stoneleigh St, Albion QLD 4010, Australia" 51 Stoneleigh St

4010

36

**Chris Martin**

Scarborough Beach Road, Osborne Park, Western Australia, Australia  
audiochris@hotmail.com

07 April 2017 03:20:59 PM

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**Reject the Narrabri Gas Project Now**

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Unconventional horizontal gas extraction - what could possibly go wrong.....

37

Michael Kosmowicz

304 Finchley Track, Laguna, New South Wales, Australia  
mischkaum@gmail.com

21 April 2017 09:06:53 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project will leave devastating long-term damage to the water basin, damage to the forest and native wild life.

Santos has not taken into account the incredibly damaging effects on human health that latest research is proofing.

Renewable energy is the way to go for us and especially to keep future generations in mind.

This project, if allowed will create stress onto Aboriginal communities as well as the climate.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Michael Kosmowicz

304 Finchley Track, Laguna NSW 2325, Australia



38

**Cassandra Hooper**

19 Fields Rd Tanja  
cassyhooper@gmail.com

24 April 2017 01:39:57 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and strongly believe it should be rejected.

The Piliga region is home to unique wildlife.

There is no safe disposal plan of salt laden groundwater.

Rural communities who rely on the great artesian basin will be affected.

Methane gas leakages posing a further risk rpt climate change.

We have so many safer and cheaper and reliable options if only the government would invest.

The internationally renowned Siding Spring Observatory would most likely be affected by light pollution.

Coal seam gas is harmful to health. We only have to look at the research from the United States to know this.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Cassandra Hooper

19 Fields Rd Tanja

39

**Leonardo Chaibun**

Possum Creek Rd, Possum Creek, New South Wales, 2479, Australia  
leochaibun@hotmail.com

22 April 2017 10:03:41 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Protect our waters, protect our land, be truthful to this earth.

Yours sincerely,

Leonardo Chaibun

Possum Creek Rd, Possum Creek NSW 2479, Australia

40

**Alyce Langier**

Swift Street, Thornbury, Victoria, Australia  
alycelangier@gmail.com

21 April 2017 05:30:17 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The effect that this planned project will have on the local environment of the Pilliga will be devastating.

Creating excessive amounts of toxic waste, not only in the air but also on land, and contributing to the very real problem of global climate change.

We do not need more coal seam gas extractions, we need to be moving to a more sustainable way of creating energy resources.

We need sustainable job creation, to respect our land, the animals and water.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Alyce Langier

Swift St, Thornbury VIC 3071, Australia

41

**Ingrid Pullen**

The Pocket Road, The Pocket, New South Wales, Australia  
ingystuff@gmail.com

22 April 2017 08:58:21 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I TOTALLY OBJECT to this project and believe it should be rejected.

Can you really tell me this is safe!!? All evidence and experience tells us that this project is not humane, not ethical and totally unsustainable.

WE WILL NOT LET THIS HAPPEN.

We need clean water to survive. Santo have completely ignored public health risks from fugitive emissions, including from methane, sulphides and ozone. How can this gas be so clean when all others is so dirty?

Where is your heart, more so... where is your common sense!!???

I strongly object! This WILL have a SIGNIFICANT IMPACT on Threatened special, Ecological communities and Human Communities...

I demand the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Ingrid Pullen

Yours sincerely,

Ingrid Pullen

The Pocket Rd, The Pocket NSW 2483, Australia

42 pt 1/2 ✓

Pauline Roberts

Inverell

pauline@mpirical.com.au

20 May 2017 09:45:56

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.

- It will also change the underground structure of the region in ways that we do not begin to comprehend which will have consequences for other farmers and industries that rely on ground water in the area. There will be dry wells, there will be contamination, there will be contamination and both short term and long term consequences. Based on the Queensland examples, I am confident that neither the company concerned nor the government fully understands the risks here and is not applying the precautionary principal.

2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.

- It is not enough to move threatened species, or segregate 'corridors', there is a huge amount of natural complexity to the species within these lands that we barely understand. Our removal and segregation of our own aboriginal people was similarly disastrous and that was only one species and their lives have been permanently changed for ever. We need to protect our remaining forests, there are no second chances with such developments.

3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

- Our understanding of recharge in the GAB is still in its infancy. Somehow, arrogantly it is believed by government and gas companies - that you do understand the complexity of the GAB. The Rural communities are not so sure and have heard such certainty before. It is extraordinary that those in government do not listen to their people and, instead, find more and more ways to dismiss their concerns and undermine the last vestiges of objective science that does surface, most of it highly critical of large scale water extraction for gas and coal based businesses.

Since the politicians are so sure these developments are in the public interest - despite having very limited understanding of the complexity of the projects they are reviewing and happy to over-ride scientific advice if there are consultancies and jobs in the offing after their parliamentary careers are over, perhaps we the public could sequester their political pension funds in a fund that will be used first if the companies do not live up to their environmental responsibilities? After all, you are all so sure this is good for the area, the people etc so please put your money and future on the line as you are so ready to ask current land owners and rural businesses to do!

4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

- Not to mention the disruption as industrialisation of the landscape occurs - light pollution, noise pollution, dust pollution, radioactive discharges (and neither the companies nor the government understand THAT risk, that much is VERY clear) and other harmful and carcinogenic material that currently is just 'vented'. No benchmarking of the community health, the current air quality etc., because you don't look at what you don't want to find.

42 pt 2/2

- This really is a woefully short sighted project by a bunch of profiteers who are teetering on the brink of financial ruin themselves.

When the collapse comes, who will make sure the EIS conditions are met? Ah yes, that is when the politicians' pension pot will come in very handy.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

I know you won't read my submission - whether they are highly technical (as I have done in the past) or frustrated rants (more recently) or signing petitions etc. I can not believe the short-sighted behaviour of our current politicians, no leadership, no moral compass, no understanding of science, no precautionary principle, never see a crisis coming, never offer solutions until afterwards and then mess it up from thereon and around we go again.

Shame on you if this project goes ahead, don't say the people you pretend to represent didn't try and warn you.

Signed,

Yours sincerely,

Pauline Roberts

Inverell

43 ✓

**Stephen Boyle**

888 Waiwera Lane, Boolcarroll, New South Wales, Australia  
srboyle49@gmail.com

21 May 2017 21:53:02

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

As a farmer and irrigation farmer I am very concerned as what it might do to the Great Artesian Basin. We do not want our water contaminated. We have already had to give up 50% of our underground water allocation to make it a sustainable resource. There has been so many recorded cases where coal seam gas extraction has contaminated water supplies. WHY wouldn't we be concerned???

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Stephen Boyle

Waiwera, 888 Waiwera Ln, Boolcarroll NSW 2388, Australia

44 ✓

**Christine and Lynne Pettall**

36 Mount Torrens Rd, Lobethal, South Australia, Australia  
pettall@internode.on.net

22 May 2017 08:11:12

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**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

We object to this project and believe it should be rejected.

We like hundreds of thousands of Australians live in the apparently naive belief that a conservation area is just that, a conservation area. We can't kill anything, cut down anything, or dig up anything. But wait if you are a mine you can do all of these things.

Whenever we've spoken to anyone and asked what do you think can be done in a conservation area. Everyone is horrified to discover that mining is allowed in any conservation area.

The fact that the Pilliga is one of only a handful of absolutely pristine areas in Australia is telling.

Most other areas touted as pristine are regrowth or small remnant areas.

Clearing any of the Pilliga is nothing short of environmental vandalism. We have no idea what other rare species, other than the Pilliga mouse, may yet to be discovered.

We understand that recent testing of the aquifer has tested positive for toxins introduced as a result of the over 60 mines which currently exist in the Pilliga.

We also know that large and deliberate emissions of methane from venting and leakage, are already occurring, adding to climate change. These will increase dramatically if the proposal goes ahead.

We urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

We also urge the government to question why any activity that has any impact at all on the environment is allowed in a conservation area.

Yours sincerely,

Christine and Lynne Pettall

36 Mount Torrens Rd, Lobethal SA 5241, Australia



45 ✓

Rani De Kalb

22 deane st narara  
ranifish@hotmail.com

20 May 2017 15:01:21

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Rani De Kalb

22 deane st narara

46 ✓

**Jeremy Bradley**

83 Capararo Rd Beechwood 2446  
ceggert@bigpond.net.au

20 May 2017 15:12:20

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

We are the custodians of our Nation's assets. As such, I do not believe that a sound case has been presented to the people of this State that the risks of the potential pollution and or depletion of these assets is worth the monitory returns.

I urge the Government to reject this project.

Signed,

Yours sincerely,

Jeremy Bradley

83 Capararo Rd Beechwood 2446

47 ✓

Mark Selmes

770 Mount Rae Road, Taralga, New South Wales, Australia  
cranky.dropbear@gmail.com

20 May 2017 15:12:45

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I have visited the Pilliga and Narrabri areas on a number of occasions and would like to object to this project , and believe it should be rejected for the following reasons.

1. Australia is the driest continent on earth . Why risk the Great Artesian Basin and a water source that is depended upon by rural communities and agriculture ?

The extraction of the water will see huge amounts of salt brought to the surface and treated at facilities that will generate nearly 500,000 tonnes of salt water .I cannot see how this can be dealt worth safely .In my region we are planting tens of thousands of trees to fight both salinity and alkaline soils.

It's just not worth the risk .

2. I have seen the clearing for exploration and pipelines and roads in the Pilliga for CSG personally .The degradation and fragmentation of this area will have negative effects on the unique wildlife that call this area home .

3. I have heard countless times the talk of how CSG is less polluting and carbon emitting than coal. This ignores the methane emissions that that are known to add to our changing climate more so than carbon.

4. The health concerns of those living with CSG do not appear to be taken seriously , while in other part of the world these are now being recognised and moratoriums on CSG being considered. Didn't The Victorian government in Australia ban the fracking process ?

I discussed this issue with a local indigenous elder, who spoke of the impact on the spiritual and cultural life of the Gamilaraay people with project in the area , including CSG in the Pilliga, and coal mining in the Leard.

NSW should be investing in genuine renewables such as solar and not allowing Santos to cause more environmental and social harm.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Mark Selmes

770 Mount Rae Rd, Taralga NSW 2580, Australia

48 ✓

**Brad Satchell**

no fixed address  
frakingtoday@gmail.com

22 May 2017 03:08:01 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

My studies as a it consultant has allowed me to collect information on fracking from around the world and have been overwhelmed with the experts advice that is very clear fracking process is not safe and has many problems that have not even surfaced .Creating and collecting this information now for over 5 years i have had my information haked now 3 times it is very clear that the powers to be need educating of fracking just like the countries that have banned the process..

Yours sincerely,

Brad Satchell

no fixed address

[www.fracking.reviews](http://www.fracking.reviews)

49 pg 1/2 ✓  
49

David Freeman

100 Johnston Street, Bellbird Park, Queensland, Australia  
treemangreenman@gmail.com

21 May 2017 19:20:01

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Today was good day

If Santos have their way the Pilliga

Tomorrow will not be good

It's time the Government of Australia stopped bending over for the big energy corporations and start to serve the people  
Gomerioi people's and Locals alike do NOT want Santos to Frack the Pilliga and destroy this scared forest and destroy the  
GAB

Your corrupt political games are up the people see through your bullshit.

Santos are in bed with the politicians, police and local councils.

Enough is enough stop this nonsense NOW.

I hope one day all involved with this Ecocidel project will be made accountable and jailed for their parts played in this  
debarkle.

We only have one Great Artesian Basin the treasure of our nation, Santos and this Government want to put all this at risk  
to make a few fast bucks! At what cost?

It's complete insanity.

What you put into the Earth you put into you and me.

Santos has a shocking record of polluting the forest and aquifers and the project is only in the exploratory stage.

Everything is connected especially the aquifers.

Wake up before it's too late and the damage has been done.

What do you want to leave behind for you children and grand children?

The Pilliga is a sacred forest that belongs to the Gamilaraay Nation.

The Gomerioi people, Santos have no idea what they are messing with energetically.

The people have the power not Santos.

Fossil fools don't seem to see the big picture.

There's a big ball of fire in the sky it's called the SUN

If we build a solar farm 60 kilometres squared we could power not just Australia but the rest of the world.

We don't need Santos or their stinking gas.

49 pg 212

I object to this project and believe it should be rejected asap.

Yours sincerely,

David Freeman

100 Johnston St, Bellbird Park QLD 4300, Australia

**Harry Gordon**

Parramatta Road, Stanmore, New South Wales, Australia  
harrygordon535@gmail.com

18 May 2017 15:29:15

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

In a time when the earth is warming at an unprecedented rate, we need to be planting forests, not clearing them for coal seam gas projects.

This project will negatively affect the Indigenous Gamilaraay people, whose social, spiritual and cultural life depends on this land.

These people have a right to this land. Sovereignty was never ceded.

Signed,

Yours sincerely,

Harry Gordon

Parramatta Rd, Stanmore NSW, Australia

51 ✓

**Barbara Petersen**

GPO Box 2140 Brisbane 4001  
barbp22@gmail.com

17 May 2017 07:46:09

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

The impact on the environment is not worth the short-term benefits proclaimed by those who stand to gain by them. The future of this planet needs planners who see the impact on future generations.

Too long our governments have allowed big corporate decisions to impact on money generating decisions. Our environment is the best investment we can make. Uninhabitable environments are the result of governments who only plan for the next election.

Become a thinking government which is planning for the Australia of your children's grand-children.

Make Australia's environment safe for its people, its animals, its plants, its air, its water. Don't let money be the reason it goes ahead.

If other countries are now fighting the detrimental consequences of such projects, why is Australia even contemplating such directions.

Make Australia the country that abides by ethically sound,  
environmentally safe government decisions.

Don't sell out this unique fragile habitat that we live in to money generating corporations who are only interested in dollar futures.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Barbara Petersen

GPO Box 2140 Brisbane 4001



52

Colin Stewart

73 Victoria Terrace, Greenslopes, Queensland, Australia  
colin000stewart@gmail.com

15 May 2017 15:32:53

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**Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected base on:

- 1) Destruction of a significant portion of the Piliga State Forest resulting in further habitat destruction and fragmentation of these important woodland ecosystem
- 2) Disruption and damage to underground water, including potential damage to major aquifers including from toxic chemicals
- 3) Increasing emissions of greenhouse gases leading to exacerbated climate change through leakage venting and ultimately burning of extracted gases.

As I understand it the project is also opposed by many Traditional Owners of these lands

NSW (and governments across Australia) should be investing in reliable and cheaper renewable energy, which are sustainable, unlike Santos' short term project which will inflict ongoing environmental, social and economic harm.

There are so many reasons for rejecting this project and very few to support it.

I urge the Government to make the sensible decision for long term benefit over short term profit and reject this project.

Signed,

Yours sincerely,

Colin Stewart

73 Victoria Terrace, Greenslopes QLD 4120, Australia

53 ✓

**Melina Ey**

273 Somerset Drive, Thornton, New South Wales, Australia  
melina\_ey@hotmail.com

15 May 2017 15:35:19

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I am writing to make a submission regarding the Narrabri Gas Project EIS. I object to this project and believe it should be rejected on a number of grounds.

First and foremost, the project poses significant risk to water sources - not just in Narrabri but beyond. The project's intentions to

extract over 35 billion litres of salt laden groundwater is deeply concerning, particularly when there is no safe disposal plan for the almost 500,000 tonnes of salt waste which will be produced. Even more seriously, the project's drilling will take place through a recharge aquifer of the Great Artesian Basin (one of the most significant water sources to the people of western NSW) and will draw water down from a water resource relied upon by hundreds of rural communities. In a nation where water security is of significant concern, putting the Great Artesian Basin at risk, and potentially contaminating other water supplies with salt waste, is deeply worrying.

Furthermore, this project will also clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, which is home to unique wildlife. This will not be offset by economic development in Narrabri, where existing agricultural industries will be put at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Crucially, this project will adversely impact land that is fundamental to the spiritual, cultural and social life of Gamilaraay people, the Indigenous custodians of the land in question. The consultation that has taken place with traditional owners has been deeply inadequate, and development should not proceed without engaging seriously with the concerns raised by Indigenous custodians.

I urge the Government to reject this project.

Sincerely,

Melina Ey

273 Somerset Dr, Thornton NSW 2322, Australia

**Rosemary Kelly**

24 Spencer St Bridgetown WA 6255  
rkelly140@hotmail.com

15 May 2017 12:14:08

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**The Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I am very concerned about the extraction of billions of litres from our groundwater system. Much of this is salty. Given past CSG works I do not want to see this salt polluting this or any other area. Australian farmers have enough problems to deal with without having to cope with man-made problems such as this.

I am particularly concerned that this project will adversely impact the Great Artesian Basin both through pollution of it and by using water that would otherwise flow into it.

We have already seen the impact on the vegetation, dams and the health of those nearby from the methane surfacing from these wells. It is appalling to me that with all our knowledge today about the long term impacts of CSG, and therefore costs to our healthcare system, we still go ahead and allow projects such as this. With the government barely coping with rising health costs due to the population getting older, why on earth would we knowingly add to this cost? To say nothing about the cost of litigation, for those affected, when they bring a class action against Santos.

And then we are looking at the destruction of a large portion of forested area at a time when we need to preserve our forests.

I believe the NSW government should respond to their needs by investing in more reliable and ultimately cheaper renewable energy,

I urge the Government to reject this project.

Signed,

Yours sincerely,

Rosemary Kelly

24 Spencer St Bridgetown WA 6255

55 pg 1/2 ✓

Joan Wakeford

72 Griffin Ave, Tamworth, New South Wales, Australia  
pjwake4d@bigpond.net.au

15 May 2017 16:07:55

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I have lived in North West NSW all my life, on a farm at Bingara and then near Tamworth. I am a Graduate nurse with an OAM for my work in mental health and counselling in this region. I have seen the effect of mining on rural communities. It is an industry that does NOT enhance family life, nor enrich business in the community (personal observation). That is no compensation for the downside - high risk of irreversible harm to the eco systems, farm lands, our climate, our water.

Fire Risk:

Santos' risk assessment claims "risk of uncontrolled loss of gas leading to a fire is low to very low". Do you have the history of fire outbreaks in the Pilliga? Consisting of much Cyprus Pine and Eucalyptus species, it is very prone to fire caused by lightning strikes. Add 850 wells of highly combustible gas, over 95,000 hectares which have been fragmented by clearing for pipes and roads, and that has to be a risk which Santos has totally ignored. Their responsibility is to "protect their workers." Recipe for disaster for beautiful country.

Also this project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan. Treated water being discharged into Bohena Creek risks survival of fish and aquatic life still being discovered. Hydrologists are unable to predict with 100% accuracy what happens when aquifers and huge resources like the Great Artesian Basin are impacted as in this case. The long term risk is not worth giving Santos access to this project on the basis of gas which could most likely be sold overseas for the company's profits. This country can reduce its demands eg how many businesses, homes and shops are overheated in July, with staff in summer clothes..

This project will also drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. This will endanger the food production area, not for 20 years, but forever.

2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife. Koala populations are at risk throughout Australia. This would disrupt another breeding area with no idea of consequences due to the lack of detail provided. This project is four times the size of the other CSG projects approved in NSW. Our flora and fauna cannot speak up but many of us will insist that reason be used, that sustainable energy be fast tracked instead of this risky project -and our land protected.

3. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change. Research from Melbourne Energy Institute shows we may be dramatically under estimating the fugitive methane emissions from gas. I see the effect of climate change here in the seasons- shorter winters and hotter summers. It affects my produce, vegetable and fruit. I am very concerned that city people do not - the decision makers.

4. The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

5. The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

6. NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm. If Government can produce a plan for more innovation in our use of energy while investing in the latest sustainable power generation and storage they would be embraced as statesmen, everybody I know is worried.

7. It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory. This would bring scientific ridicule and condemnation.

8. Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Joan Wakeford

56 ✓

**Ellen Pustolla**

6 Alderwood Court, Ferny Hills, Queensland, Australia  
pustolla1@gmail.com

15 May 2017 12:15:32

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project and believe it should be rejected by the government.

There are many reasons why this project is highly undesirable. The environmental damage and risks to cultural heritage and rural livelihoods are undeniable.

Close to 1000 hectares of the Pilliga Forest need to be cleared for this project meaning that the largest temperate woodland in NSW would be fragmented. This fragmentation and loss of habitat will undoubtedly threaten unique wildlife.

Drilling through a recharge aquifer of the Great Artesian Basin threatens the water resource relied upon by rural communities in Western NSW. Further to this, the extraction of over 35 billion litres of salt laden groundwater will generate almost 500,000 tonnes of salt waste. That is a lot of salt to dispose of risking issues with salinity in the surrounding environment.

Emissions of methane, that would be generated knowingly and irresponsibly, from venting and leakage from the wells of this proposed project, will only add to the atmospheric burden of gases that cause climate change.

This land is far too important for Santos to drill 850 gas wells. It is precious to the local Aboriginal people, the Gamilaraay people, for spiritual, cultural and social reasons. I doubt they want hundreds of these wells degrading their land! This land is important too to the rural communities of NSW, around Narrabri, who farm it for food and fibre. This project threatens their livelihoods.

Further to these concerning impacts is the fact that there are potential shortages of supply of gas; that prices have risen in part due to the export of gas rather than it being available to the domestic market. Such a situation is ridiculous! Our land should not be degraded and damaged in this way only to see the resource go overseas.

There needs to be higher priorities than mere profit from the resources of our country. Approving such a project would be irresponsible in ignoring such significant impacts on the environment, atmosphere, rural communities and Aboriginal people of the area as those outlined above.

I urge the government to reject approval for Santos' proposed project and to protect the environment, people and wildlife connected to the land around Narrabri.

Yours sincerely,

Ellen Pustolla

6 Alderwood Ct, Ferny Hills QLD 4055, Australia

57 ✓

**Lynne Waterford**

Grangoon Park Coonamble NSW 2829  
lynne.waterford@bigpond.com

15 May 2017 12:16:22

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the NARRABRI Gas Project EIS.

I don't believe you have to be a Politician, Geologist or Rocket scientist to see the fundamental basic risks that are associated with this coal seam gas project. Use your Common Sense Please, surely some Politicians must have some!!.....

We need clean water to thrive, as do our plants & animals. These vast productive areas are at great risk of not being able to continue supplying our nation & else where with the FOOD & WATER we need to survive.

This is not being Dramatic, this is fact.

Our population continues to grow at a fast rate (as does the world)- they all need to be fed & watered!! Do you think you can push the farmers into the desert & then expect them to continue to produce produce for the nation. WRONG. SOOOO VERY WRONG!!! Think again.

Do you then think that we can import it all from overseas to feed the nation. Think of the COSTS, JOBS, LOSS OF BUSINESSES, FAMILIES, INCOME, SERIOUS HEALTH ISSUES (you are not able to manage our health system now. Look out when the ice burg tips over!!) & LOSS OF A NATION's INDEPENDENCE (huge issue).

You the politicians have been given the privilege, when you were elected, to work for you Country & it's People with their best interests at heart. NOT just making a quick dollar to make your party look good or to get you out of trouble!! For God sake think ahead. We are surely the laughing stock of many other nations just waiting to take advantage or our simply Dumb Short sighted choices which have been made by our Politicians.

Just don't do it.

YOU DO NOT, I repeat, DO NOT HAVE OUR PERMISSION!!!!!!!!!!

The project is not justified & the People of Australia DO NOT WANT IT so LISTEN UP, and STAND UP for what is RIGHT for OUR NATION.

You may not get another chance to correct this terrifying choice. Is this how you want to be remembered, by your Grand children & their children. The Australian Political Parties & their Mammoth BLUNDERS that KILLED their NATION!!!!

Hopefully common sense will Gush & not Seep into your parties NOW.

Signed,

Yours sincerely,

Lynne Waterford

Grangoon Park, Coonamble NSW 2829

58 pg 113 ✓

Karla Tighe

Mulbring  
emfaware@hushmail.com

15 May 2017 12:33:34

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

RE: ARTICLE 32 – Provision of proof of the free and informed consent prior to the approval of any project affecting their lands or territories and other resources, particularly in connection with the development, utilization or exploitation of mineral, water or other resources.

This is a submission to the Narrabri Gas Project EIS.

I am a object to this project and believe it should be rejected on the basis of invoking the right to recognition and protection of my people's rights to 'lands, territories and resources.'

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.
5. Violate the cultural rights of Indigenous people by not adhering to the UNDRIP which addresses the effects of oppression and colonisation of which this proposed development is an example of.
6. Put the State in violation of their obligation to give indigenous people legal recognition and protection to 'lands, territories and resources.'
7. Under Article 32, your department must adhere to and recognise:

1. Indigenous peoples have the right to determine and develop priorities and strategies for the development or use of their lands or territories and other resources.

QUESTION: Direct me to records documenting where the Gamilaraay have been given priority and strategies have been developed for the use of their lands, territories or other resources?

2. States shall consult and cooperate in good faith with the indigenous peoples concerned through their own representative institutions in order to obtain their free and informed consent prior to the approval of any project affecting their lands or territories and other resources, particularly in connection with the development, utilization or exploitation of mineral, water or other resources.

QUESTION: Provide me with the proof of this consent and surrounding information supplied to the indigenous people including time for consideration and dates of such agreements.

3. States shall provide effective mechanisms for just and fair redress for any such activities, and appropriate measures shall be taken to mitigate adverse environmental, economic, social, cultural or spiritual impact.

QUESTION: Under my rights as a As a Gamilaraay descendant I invoke the right to



mechanisms for just and fair redress for such activities and appropriate measures will be taken to mitigate adverse environmental, economic, social cultural or spiritual impact?

<http://tinyurl.com/UN-DRIP>

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

As a descendant of Gamilaraay people I ask for the record:

QUESTION: Are you adhering to the UNDRIP and the Biodiversity Convention in relation to Indigenous rights? If not why not?

The UNDRIP was endorsed by the Australian Government in 2009. It is 'the most comprehensive and advanced international instrument dealing with Indigenous peoples' rights. A tool that can facilitate addressing the contemporary effects of oppression and colonisation.'

Article 32 provides for rights regarding development and use of lands, territories or resources, including specific reference to water resources.

As a Gamilaraay descendant I invoke the right to recognition and protection of my people's rights to 'lands, territories and resources.'

Article 26 of UNDRIP refers to indigenous peoples' rights to, and States obligations to give legal recognition and protection of rights to, 'lands, territories and resources.'

As a Gamilaraay descendant I invoke the right to recognition and protection of my people's rights to 'lands, territories and resources.'

Under the Biodiversity Convention, respect for and preservation of indigenous cultures is seen as important, if ancillary, to the main subject-matter of the Convention.

Other agreements regarding cultural recognition, such as the UNESCO Convention on the Protection and Promotion of the Diversity of Cultural Expressions<sup>40</sup>, requires the integration of culture into sustainable development.

QUESTION: Has there been integration of Indigenous culture and is this development sustainable?

The principal constitutional foundations for proposed amendment to the Water Act, so as to advance Aboriginal rights and interests, have been identified above as the Parliament's power to legislate with respect to external affairs.

QUESTION: Have the constitutional foundations for advancing Aboriginal rights and interests been expressed and represented in the Water Act with consultation with Indigenous peoples? If not why not?

References to constitutional heads of legislative power are not applicable due to the force and authority of international instruments, such as the UNDRIP and Biodiversity Convention, and their guidance to beneficial legislation in this regard.

The Commonwealth has the constitutional capacity to legislate 'for the people of any race for whom it is deemed necessary to make special laws',<sup>41</sup> the so-called 'race power.'

The principal constitutional foundations for proposed amendment to the Water Act, so as to advance Aboriginal rights and interests, have been identified above as the Parliament's power to legislate with respect to external affairs.

QUESTION: Has the 'cultural flows' concept of water allocations been implemented under this power - for example obliging water resource plans to include Aboriginal cultural allocation provisions. Appropriately drafted, such laws should not offend other relevant constitutional provisions, such as section 100 (which prohibits the Commonwealth from abridging, 'by

any law or regulation of trade or commerce', the rights of the States or their residents to 'the reasonable use of waters of rivers for conservation or irrigation').

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

58 pg 3/3

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I direct the Government to adhere to the specific relevant articles in UNDRIP to not do so would be in violation of Articles 26 and 32.

Also your department have an obligation to the constitutional capacity of the Commonwealth to legislate 'for the people of any race for whom it is deemed necessary to make special laws',<sup>41</sup> the so-called 'race power.'

QUESTION: Show me where this has been done.

No party involved in this project have not obtained my free and informed consent prior to approving the project and this affects my lands, territories and other resources, particularly in connection with the development, utilization or exploitation of mineral, water or other resources.

Signed

Yours sincerely,

Karla Tighe

Mt Vincent NSW

59 ✓

**Liz Millen**

18 Keir Avenue, Hurlstone Park, New South Wales, Australia  
liz.millen@optusnet.com.au

15 May 2017 19:27:38

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I have worked for several years with groups such as Sydney Food Fairness Alliance and the Right to Food Coalition, advocating for the importance of retaining good farming land and the water on which it depends, to help build a resilient food system that will last for centuries.

I believe that this grab for resources at whatever cost- environmental, social, increasing risk of climate change, threatening the water supply will come back to haunt us if allowed to go ahead.

I do not want to have to answer to future generations when they ask in disbelief how we could let this happen, with so many risks, and foreseeable problems- just to prop up old style reliance on fossil fuels instead of investing in renewable energies.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Liz Millen

18 Keir Avenue, Hurlstone Park, New South Wales 2193 Australia

60 ✓

**Denis Dargan**

4 Mary Irene Place, Castle Hill, New South Wales, Australia  
denisdargan7@gmail.com

15 May 2017 20:30:39

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**Please reject the Narrabri Gas Project**

---

Attention: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected for the following reasons.

You are no doubt receiving many comments about this project and I want to voice my concerns from a number of different perspectives.

1. What you need to understand is that we Australians are sick and tired of foreign companies removing our assets, paying us little or no financial reward, making good profits and in the case of natural gas selling it overseas cheaper than we pay for it or even if we are able to get access to it at all.
2. When accidents occur on these sites there are always cover ups, excuses, shirking of remediation obligations and if fines apply they are only a slight inconvenience to these obscenely wealthy corporations.
3. Furthermore any government that risks any possible threats to our water is in my opinion acting in a most irresponsible manner that may affect future generations in a world where water security is a critical issue..
4. It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.
5. Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

Denis Dargan

4 Mary Irene Pl, Castle Hill NSW 2154, Australia

61 pg 1/2 ✓

Anne Boehm

8 Balonne Street Narrabri 2390  
anneboehm@fastmail.com.au

15 May 2017 19:56:24

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I have great concerns for the recharge zone of the Great Artesian Basin which the Narrabri Gas Project could compromise. This project will straddle this recharge zone. I take this comment from Hydrogeological Atlas.

Well casings will all eventually fail, some in the first year and the rest over time. Santos has not shown in the EIS how they will provide security as these wells fail as they have in all other gas fields.

Bohena Creek is an important part of our inland water system and to have Santos releasing treated. Water into Bohena creek without any plans to keep the water in a state where it can be used for stock and agriculture.

In other areas coal seam gas has had a dramatic effect on groundwater quality. The Santos EIS does prove that there is no connectivity between the aquifers and the wells. Without this evidence then one would have to assume that this project is too risky.

Greenhouse gas levels are a serious issue worldwide and if we have more methane leaking into the atmosphere then this project will have very negative effects on our climate.

The EIS does not take into account the concerns of the Gamilaraay People. They have great concerns for their cultural and spiritual sites.

The Pilliga Forest is the largest temperate woodland in New South Wales. The infra structure needed for the Narrabri Gas Project will fragment this forest with the resultant loss of flora and fauna.

The light from this industrialisation as well as the resultant dust will have a negative effect on the world class astronomical industry based in the Warrumbungles.

At no stage has Santos been able to give an explanation of what they will do with the enormous amount of salts which will be a by product of this industry.

Coal Seam Gas is harmful to health and neither Santos or the NSW government put forward any plans as to how they will deal with this issue.

Santos need this gas to meet orders for overseas clients. The gas shortage in this State will not be overcome as this gas is destined for export.

The noise of the gas fields will effect those living in this area.

Already people are leaving the area. This industry is driving people away.

Locals will not have the skills to develop these gas fields and the workforce will come from outside the region.

We ask you to look at the science. Look at the impact on the farmers and towns in Queensland. His industry is a disaster socially, economically and environmentally.

I implore you to reject the Narrabri Gas Project.

61 pg 2/2

Signed,

Yours sincerely,

Anne Boehm

8 Balonne Street Narrabri 2390

**Regina Orchard**

3 Frome Avenue, Frankston, Victoria, Australia  
regina\_treasures@yahoo.com.au

15 May 2017 19:52:34

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected. The environmental consequences are broad and all are catastrophic and the true financial costs of this have not been noted.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Regina Orchard

Yours sincerely,

Regina Orchard

3 Frome Ave, Frankston VIC 3199, Australia

63 ✓

**Greg O'Mera**

290 Binna Burra Rd, Binna Burra, New South Wales, Australia  
gomeara@westnet.com.au

15 May 2017 14:30:52

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would in my opinion, in time destroy any potable water that is left underground. Upon destroying that water, there can be no method of rehabilitation. Compensation will then be required and that can only come from the approving authority, that is the NSW Govt. This of course will mean me the tax payer. The evidence of that abuse of this country by CSG companies is quite visible in Qld.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining. Don't allow it.

Signed,

Yours sincerely,

Greg O'Meara

Wilsonia,

290 Binna Burra Rd, Binna Burra NSW 2479



64 ✓

**Margaret Sawkins**

8 Rowlands Street, Merewether, New South Wales, Australia  
msawkins@gmail.com

15 May 2017 14:22:16

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

You, the government planning and environment representatives, are supposed to be watching out for the environment. Would you like your local water, land and air polluted? You should not be complacent just because this project is not your backyard. You should not let profiteering corporations destroy environments for a short term gain. I object to this project and believe it should be rejected.

These are the reasons:

1. Water is a resource that should be protected. CSG operations in America and Australia have polluted aquifers. There are plans to drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. There will be a problem with salty groundwater. There is no safe disposal plan. There is evidence of the destruction that occurs now in the Darling Downs.
2. The land should be protected. The project will clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife. How pathetic for a short term profit. No mining company will repatriate the land adequately. It should not be cleared.
4. The project will lead to large deliberate emissions of methane from venting and leakage, adding to climate change.
5. The project will have immeasurable impact on the spiritual, cultural and social life of the Gamilaraay people. Compare this to putting CSG wells in at the front yard of the local church. Just because you don't understand a person's spirituality, doesn't mean it is not important. You wouldn't allow this to happen at your local place of prayer.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

There are better ways to get energy. There are cities now powered by renewable energy alone. Australia is lagging behind in clean energy technology. NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm. Be like Victoria. They banned CSG.

CSG will put agricultural industries at risk in Narrabri.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I demand the Government reject this project and make the Great Artesian Basin recharge off-limits to gas mining. There is no back up when the water supply is stuffed. How long did this resource take to form? How quickly could a bunch of money grabbing corporations ruin it. This is not a situation for risk management. It is not acceptable to risk this environment (land, water, air) at all.

Signed,

Yours sincerely,

Margaret Sawkins

8 Rowlands St, Merewether NSW 2291, Australia

65 ✓

**Elizabeth Gordon**

23 Birdwood Ave, Umina Beach, New South Wales, Australia  
e-gw@luve.com

15 May 2017 13:11:51

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly believe it should be rejected.

This project, if approved, would generate 500,000 tonnes of salt waste will be generated, for which there is no safe disposal plan and nearly 1,000 hectares of the Pilliga Forest unique wildlife will be destroyed.

The most egregious result will be the affect on groundwater. How can Australia thrive with contaminated groundwater? This is not just for a few years but forever! Think about that.

Do not take the decision to ruin an exceptional part of our country lightly. All of our children depend on a wise decision on the part of the decision makers. Short term profit should never Trump long term survival.

Please save NSW from becoming contaminated as Queensland has become.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Dr Elizabeth Gordon-Werner

23 Birdwood Ave, Umina Beach NSW 2257, Australia

66 ✓

**Andrew Millen**

61 Isaac Smith Parade, Kings Langley, New South Wales, Australia  
andrewmillen@gmail.com

15 May 2017 13:52:27

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected and stopped outright. The irreparable damages, consequences to health, livelihood, arable land, groundwater, forest, and ensuing toxic emanations make this project a short-sighted and absolutely irresponsible consideration.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Andrew Millen

67 ✓

**Fiona Henson**

Loftus, NSW  
fizz@me.com

15 May 2017 12:49:40

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I am fairly astonished that anyone in this day and age would even consider it - unless, of course, they are being ordered to do so....

The world really needs to wake up to what is happening to the only home we have.

If I can be so bold as to suggest you take a good look at the rising popularity of solar and other renewable energies...what harm could that do?

They say money talks - but you cannot eat it.

Yours sincerely,

Fiona Henson

Loftus, NSW



**Geraldine Ryan**

Green St, Ivanhoe, Victoria, Australia  
geraldine.ryan18@gmail.com

15 May 2017 11:42:55

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**Submission to reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

15 May 2017

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I will remember the students from farming properties in the region who came to a boarding school in Sydney when I was a teacher there for over a decade. They were so proud of their lands and forests.

Now I see those same students, now adults, fighting to save from

destruction the lands they are caring for. Their land production and jobs, including jobs at Siding Spring Observatory and in tourism, can go on for the long term compared to this damaging proposal that will extract billions of litres of salt laden groundwater from a life giving aquifer

2 I do not want any more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

3 I object strongly to any clearance and fragmentation of the wonderful Pilliga Forest. How can we do this to the largest temperate woodland in New South Wales, home to unique wildlife and storer of carbon in this time of climate change? It is unethical and must not happen

4 The Great Artesian Basin is one of the top treasures of Australia, on many levels, national not just state, and should never be risked by a drilling of the aquifer

I urge the NSW Government to reject this project, create jobs through renewable energy industries and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Geraldine Ryan

Yours sincerely,

Geraldine Ryan

Green St, Ivanhoe VIC 3079, Australia

69 ✓

**Pam Brown**

286 Hudson Parade, Clareville, New South Wales, Australia  
pam@cnpbrown.com.au

15 May 2017 11:41:22

---

**Please reject the Narrabri Gas Project**

---

strongly Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project and believe it should be rejected on the grounds that if approved, it would:

Interfere with and cause diversion of water from a recharge aquifer of the Great Artesian Basin. Agriculture, our food and water supplies in the eastern states is dependent of the basin remaining intact.

Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.

Lead to emissions of methane from venting and leakage adding to climate change, that already has changed rain patterns, led to increasingly severe storm and flood effects. We don't need to exacerbate this problem. There are alternative energy sources - photovoltaic and wind that along with storage systems can provide energy requirements for the community

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

There are well documented episodes of groundwater and soil pollution as well as impacts on human health. The NSW Government and Santos must undertake due diligence in examining the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project

it is time that we as a community acknowledge that the short medium and long term consequences of CSG mining activity on the complex dynamic, that is our eco-system are destructive.

Don't destroy the future in pursuit of short term monetary gain most of which won't remain in or help the community, no provide longterm employment

Signed,

Yours sincerely,

Pam Brown

286 Hudson Parade, Clareville NSW 2107, Australia

70 ✓

**Tony Dickson**

198 Keen Road, Inman Valley, South Australia, Australia  
tonydickson53@gmail.com

16 May 2017 23:04:47

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

So much of our economic activity is little more than a Ponzi scheme; in that it is little more than myopic exploitation of finite resources, which leaves unfunded liabilities for generations to follow.

Projects like this amount to a subsidy of current consumption by the legacy of future debt; bad debt.

Signed,

Yours sincerely,

Tony Dickson

198 Keen Rd, Inman Valley SA 5211, Australia

71 ✓

**Brittney Colwell**

Bulgah, Coonamble NSW 2829  
brit.colwell@hotmail.com

15 May 2017 11:28:12

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS. I object to this project and believe it should be rejected as we as a community and as a state want a land free of csg and pipes that lead to gas fields. Gas will endanger future land holders livelihoods such as mine. Implementing this project will mean that we are polluting the soil used to grow crops to feed livestock and humans and the water table that supplies thousands of farms and waterways.

I strongly reject the Narrabri Gas Project because I want to keep our region clean and green for ourselves and many more generations to come.

Yours sincerely,

Brittney Colwell

Bulgah, Coonamble NSW 2829



72 ✓

mike birch

Tuntable Falls, 2480  
mcbirch48@gmail.com

15 May 2017 10:46:41

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Dear Sir,

I don't live near Narrabri. And this is partly the point. Underground aquifers don't conform to state or other human boundaries. Polluting the Great Artesian Basin would affect one fifth of the country. This is too much to risk. We can survive without gas. We cannot survive without water.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

mike birch

Tuntable Falls, 2480

73 ✓

**Richard Byrne**

40 Renwick Street, Alexandria, New South Wales, Australia  
lowbyrne@bigpond.net.au

15 May 2017 10:18:25

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**Do the right thing and Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project proposal and believe it should be rejected.

The dangers of projects of this nature are well understood and it is stupid to ignore good science. There are energy alternatives available that do not threaten food and water security for Australians of this and future generations. We need to look after the land we live on. Stable democracy for the sake of wreckless short term economic growth is not stable for long. Care and educate or perish.

Do not support this terrible proposal - please.

Neither the NSW Government nor Santos can afford to promote the serious health effects of coal seam gas extraction now appearing in peer-reviewed research in the United States.

It would amount to culpable neglect.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Richard Byrne

40 Renwick St, Alexandria NSW 2015, Australia

74 ✓

**alva geikie**

12 Alison Avenue, Lennox Head, New South Wales, Australia

alvageikie@bigpond.com

15 May 2017 09:19:24

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Re the proposed Narrabri Gas Project

I am totally opposed to the process of coal seam gas mining.

This process pumps chemicals into the earth which will eventually have to cause harm somewhere.

To use this process anywhere near the Great Artesian Basin is utter madness. The whole of Australia relies on this amazing resource.

If this process is used in the Pilliga Forest it will destroy another of our unique areas which protect the last vestiges of native flora and fauna.

The choice is between Investing in renewable energy or in old fashioned methods which are making our planet more polluted year by year.

I ask the government to reject coal seam gas production and put energy and money into alternative clean projects.

Signed,

Yours sincerely,

alva geikie

75 ✓

**Rein Jaaniste**

33 Percival St, Lilyfield, New South Wales, Australia  
reinjaan@ozemail.com.au

17 May 2017 20:31:21

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. I understand no evidence has been presented that the operations will not have connectivity with the artesian water.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Rein Jaaniste

33 Percival St, Lilyfield NSW 2040, Australia

76 ✓

**Tassia Kolesnikow**

7 Hovea Place, Grays Point, New South Wales, Australia

tassia.kolesnikow@gmail.com

15 May 2017 10:03:31

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I write to express my strong recommendation that the Narrabri Gas project be rejected.

As a parent and scientist, I am greatly alarmed by the proposal to drill for coal seam gas. With the plethora of evidence that extraction and combustion of fossil fuels are destroying our climate, it is a criminal act to approve the extraction of coal seam gas which will accelerate climate change further by the release of potent methane gas.

Furthermore, this project, if approved, would:

1. Add to the soil salinity problems in our country by extracting over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Fragment the the largest temperate woodland in New South Wales, home to unique wildlife by clearing close to 1,000 hectares of the Pilliga Forest.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

It is also extremely insensitive to regional Aboriginal community in the area as it will impact on places that are crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified by the need for increasing supply of domestic gas, particularly at a time when we need to leave all fossil fuels in the ground and transition to renewable energy. CSG in Australia is being pushed ahead by multi-national companies that take most of the profits offshore. In fact, Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Tassia Kolesnikow

7 Hovea Pl, Grays Point NSW 2232, Australia

77 ✓

**freetheworldheart@gmail.com Dawn**

3565 Kyogle Rd, Mount Burrell, New South Wales, Australia  
freetheworldheart@gmail.com

16 May 2017 14:10:40

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The scientists have informed the world's governmental leaders of the imminence - in 2020 they reckon - of the world's sixth mass extinction event, and of the lingering possibility of avoiding this catastrophe (which will ultimately take all humanity with it) by leaving at least half of the world ALONE - now.

The urgency for humanity to turn from the psychopathic direction of the neoliberal agenda is imperative - also it's required for any government's legitimacy as an upholder and servant of the rights of their constituency to "life, liberty and security".

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

freetheworldheart@gmail.com

Katharine Dawn Kirkwood

Sphinx Rock, 3565 Kyogle Rd, Mount Burrell NSW 2484, Australia

78 ✓

**Greg Richardson**

29 Heath Street, Mona Vale, New South Wales, Australia  
gregrichardson1@gmail.com

15 May 2017 09:37:54

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

We must focus on a commitment to renewable energy and not engage in more fossil fuel reliance. Australia has made international commitments to restrict global temperature rises to below 2 degrees, and all state governments need to contribute to ensure these targets are met. Additionally the mining practices associated with this project threaten crucial agricultural land, water supplies and the natural environment.

People across Australia and in NSW particularly have expressed strong opposition to coal seam gas extraction and support for renewable energy, I urge you to do the same and reject this project.

Yours sincerely,

Greg Richardson

29 Heath St, Mona Vale NSW 2103, Australia

79



**Mathew Mcinnes**

87 McKenzie Street, Narrabri, New South Wales, Australia  
aub.mcinnes@gmail.com

16 May 2017 13:40:13

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

It's make me sick to think off the damages that this project will have on my local community,

I am born and raised in Narrabri community and proud of my area!

To think that you would pass something like this to wreck our environment and farming is appalling! And all for what corporate greed!!!

We don't have a gas shortage and if you didn't go selling all our current Australian gas in to the international market Australia would have more then enough gas from existing wells, And not have to ruin more of our beautiful country!!!

Plus once they wreck our water by drilling through it can't be fixed, And then what we are to live on the driest continate on the planet with no water! What a joke the whole area will become worthless and inhabitable with out water.

And will santos then pay for all the damages? Off corse not they would just recive a one off fine probly just \$100,000.00 nothing to them. And they would just wipe there hands of us and be done!!!

We are not go to have politicians with vested interest and shares in Santos push through this sickining proposal! They forget their place, they are to serve the will of the people. Not to try and sway Pollicy for self enrichment, far to many Corrupt politicians!

This project, if approved, would wreck the whole community and environment that can't be reversed, there is no going back on this! So please don't let there be any Gas in the Narrabri Area

Signed,

Yours sincerely,

Mathew Mcinnes

87 McKenzie St, Narrabri NSW 2390, Australia



80 ✓

**Guy Hanbury**

Vancouver, British Columbia  
guyh@jdsmining.ca

16 May 2017 13:35:41

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I Guy Hanbury object to this project and believe it should be rejected.

This project, if approved, would:

- Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
- Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

The state of NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing unknown damage to the land for future generations.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

Guy Hanbury

Vancouver, British Columbia

81 ✓

Michael Nott

"Uplands" Boggabri NSW 2382  
mmnott@bigpond.com

16 May 2017 18:41:13

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project and believe it should be rejected.

I am a landowner that borders the Pilliga Forest and believe that the approval for this gas project will impact on my farmland and my ability to continue to run a successful farming enterprise.

This project will threaten the existing agriculture in the region, the ability to grow crops, the water for stock and domestic use and the deliberate emissions of methane from venting and leakage from gas wells.

Firstly, as a farmer from this region this project will threaten our livelihood of running a successful farming enterprise. Further effecting my son and daughter to run this same enterprise in future years. The contamination of the land with salt laden groundwater will reduce the opportunity to plant, harvest and sell crops that are exposed to this. Where will this salt go safely?

With the planned clearing of close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife, as well as impacting heavily on my farmland as the feral pigs, goats, kangaroos and emus will have nowhere to live or nothing to graze on so will infest my property affecting the native grasses and planted crops.

Puncturing through a recharge aquifer of the Great Artesian Basin and drawing water down from a precious water resource relied upon by rural communities across western NSW will impact on our ability to survive in a healthy environment. Our property relies on the aquifer as it is vital for the watering of our stock in dry times and for personal domestic use. Without this clean water this impact will make a vast area of land uninhabitable.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Michael Nott

"Uplands" Boggabri NSW

82 ✓

**Annie Kelly**

Balwyn North, Victoria  
a.kelly@dealmechanics.biz

**Please reject the Narrabri Gas Project**

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"Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS. I write because I believe in Australia's future and the importance of protection of all of our natural resources, not just the currently "valuable ones". I urge those in decision making positions to recognise the importance of protection. "If future generations are to remember us with gratitude rather than contempt, we must leave them something more than the miracles of technology. We must leave them a glimpse of the world as it was in the beginning, not just after we got through with it."

"We must not only protect the country side and save it from destruction

83 ✓

**Vania Chan**

45 Lloyd St, Oatley, New South Wales, Australia  
vchantam@yahoo.com.au

17 May 2017 21:35:06

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I object to this project and believe it should be rejected.

This project, if approved, would:

- generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan
- clear close to 1,000 hectares of the Pilliga Forest
- drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW
- cause large emissions of methane, adding to climate change.

NSW should invest in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Vania Chan

45 Lloyd St, Oatley NSW 2223, Australia

84 ✓

**Leigh Ackland**

Hardwicke Street, Balwyn, Victoria, Australia  
leigha@deakin.edu.au

21 May 2017 18:09:52

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

In Victoria, where I live, the government has banned CSG following a parliamentary enquiry. And for a good reason. In the process of gas extraction, thousands of toxic chemicals are driven into the ground under high pressure. Not only are these chemicals proprietary, where the companies will not provide details of them, but they react to form potentially toxic byproducts with that can cause human health problems and environmental pollution.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Leigh

Yours sincerely,

Leigh Ackland

Hardwicke St, Balwyn VIC 3103, Australia

85 ✓

**Martin Bayliss**

138 Prince Alfred Parade, Newport, New South Wales, Australia  
martin.bayliss@me.com

20 May 2017 16:23:51

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

CSG mining damages people, livestock, the land and the water. It leaves a scarred landscape and devastated communities. It is a high-risk activity with no known 100% safeguards against leaks and environmental desecration. Notably:

- \* There is no safe plan for disposing of the massive quantities of salts it will generate.
- \* It will tap into and risk poisoning water needed by farming communities.
- \* It will allow large emissions of methane from venting and leakage, adding.

And we as a state and a country don't need it. What we do need is more emphasis on renewable clean energy. Technology is already capable of supplying most of our electricity needs from solar and wind power, and it is improving all the time.

What is more it employs lots of people and can deliver far more economic and social benefits to our communities short and long-term than CSG, without the negative impacts.

I urge the Government to reject this project and make the Great Artesian Basin recharge and all of NSW off-limits to gas mining.

Signed,

Yours sincerely,

Martin Bayliss

138 Prince Alfred Parade, Newport NSW 2106, Australia

86 ✓

**Betty Thomson**

45 Byng Street, Orange. NSW 2800  
ithomson@netwit.net.au

20 May 2017 16:21:19

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This development will destroy valuable farmland for ever. It also will poison the water aquifers and destroy the safety of the water supply of indeterminate groups of farms and urban areas.

It is just NOT worth the risk.

Signed,

Yours sincerely,

Betty Thomson

45 Byng Street, Orange. NSW

87 ✓

**Erika Bunker**

24 Station St, Menangle, New South Wales, Australia  
ebunker@eftel.net.au

19 May 2017 13:00:39

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

There are many reasons why this project should not go ahead, and many will be named by others opposing it.

Australia's beautiful nature, its water resources, air quality, its agricultural land which should and can be sustainably used, the mental and physical health of Australians and their quality of life will be directly and indirectly affected.

How can this culture so quickly destroy our natural resources, after the Aboriginal people have lived here for tens of thousands of years with hardly any change, leaving it untouched for generations to enjoy.

It is just about time that our garbage production stops, otherwise soon we will have nowhere to go.

Money, power, greed, more of what?, luxury, cars, airconditioning, plastics, pollution, concrete, ewaste, roads, radiation, toxins, noise...choking...endless...everywhere...unstoppable?

Soft soil, sand, grass, rocks under your feet, silence, wind, voices of native animals, clean air to breathe, clear fresh water, running for kilometers, for hours through nature in complete silence...where?...disappearing, irreversibly?

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Erika Bunker

24 Station St, Menangle NSW 2568, Australia



88 ✓

**Elle Woods**

Sheridan Montana USA  
wood.elle95@gmail.com

22 May 2017 10:12:25 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

If you ruin the water you will not be able to have agriculture as you know it. People do not understand where their food comes from! In my country we have had many instances of damage to water from this industry - the country is ruined and never produces the same again.

Signed,

Yours sincerely,

Elle Woods

Sheridan Montana USA

**Elizabeth Johnstone**

360 Old Byron Bay Road Newrybar NSW 2479  
ejjohnstone@bigpond.com

18 May 2017 13:05:39

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Prior to living in the Northern Rivers I lived in the Hunter Valley at Broke and for 5 years campaigned against AGL and its predecessors against the mining of that area for CSG.

I have observed on land adjacent to my own the way in which this industry fails to deal with spills of toxic water and will place holding ponds on areas known to flood without consideration of the impact on the environment. The pollution and waste of the groundwater and the visual pollution of areas where wells are sunk ( eg.Tara in Queensland) should be avoided at all cost.

In the Hunter the mining company was unable to dispose of the toxic waste as all local government areas were loathe to accept it. This was despite a plan to truck it to Sydney , burning fuel and burdening the roads in the process.

The wells themselves cannot be disguised and are hideous within the landscape.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Elizabeth Johnstone

360 Old Byron Bay Road Newrybar NSW 2479

90 ✓

**Antony McCardell**

519 Crofton Road, Nimbin, New South Wales, Australia

tony@antonymccardell.com

19 May 2017 12:36:39

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**Please reject the Narrabri Gas Project**

---

I have serious objections to the proposal of Santos to construct and operate over 800 coal seam gas (CSG) wells in the northern section of the Pilliga Forest.

1. Santos claims that the longer-term legacy of CSG activities here will be minimal. This is manifestly absurd and misleading as exemplified by the social, environmental and economic impacts on rural populations of the CSG experience in SE QLD.
2. Santos has already breached environmental guidelines during its testing phase, including a groundwater pollution event. It cannot be trusted with a massively scaled-up project.
3. Santos has not revealed any effective disposal plan for the projected 0.5M tonnes of salt generated from the expected 35B L of extracted groundwater. There are already bushland areas in the Pilliga Iain waste by salinity from Santos operations. Again the QLD experience shows that evaporation pans associated with CSG occupy large surface areas and that salt is not adequately contained therein, let alone permanently removed.
4. The area is a significant recharge zone for the Great Artesian Basin. CSG drilling will puncture this zone and cause groundwater draw-down affecting water resource access to rural communities and their economic well-being.
5. Fugitive emissions of methane from 850 CSG wells will be large. Recent studies comparing fugitive emissions from CSG as opposed to conventional gas extraction suggest that their contribution to greenhouse effects on climate change can easily exceed the greenhouse effects from coal (methane is 84 times more potent than CO<sub>2</sub> as a greenhouse gas), in proportion to the energy generated from these fuels. Recent research at Southern Cross University, Lismore, reveals significant elevated levels of methane in the atmosphere around Chinchilla in QLD. Reports on methane emissions from U.S. and Canadian natural gas systems reveal them to be larger than official estimates (Brandt et al. 2014, Methane leaks from North American Natural Gas Systems, Science, 343 (2014), pp. 733–735). The Energy Institute has warned that unmeasured methane leaks from unconventional gas fields could cause Australia to fail its Paris climate commitments.
6. The health effects of coal seam gas on local populations in the vicinity of extractions have not been comprehensively studied.
7. CSG extraction depends on drilling wells close together and connected by a network of pipelines. Whilst the immediate clearing of bushland may only be in the order of thousands of hectares, the resulting fragmentation of the largest temperate woodland in NSW will seriously affect the unique flora and fauna of the Pilliga area.
8. The farming community of Narrabri is overwhelmingly opposed to CSG in its vicinity, on both environmental and economic grounds, and increasingly on medical grounds.
9. Santos' CSG export activity in QLD has contributed to distortion of the gas market in NSW to the extent that the Federal Government has now been forced to allow regulatory intervention to secure domestic gas supply. Domestic gas prices are now determined by the high prices gas companies are receiving from their international buyers.
10. The Pilliga has had important unbroken cultural and spiritual significance for the Kamilaroi people for thousands of years. A destructive CGS project would once again break their hearts.
11. There are fears the project will destroy the unique dark night sky needed for astronomical observations at the internationally renowned Siding Spring Observatory.

Signed,

Yours sincerely,

Antony McCardell

91 ✓

Roselyn Druce

"Wongalea" 66 Teston Lane, Maules Creek, Boggabri NSW 2382  
reikiros@bigpond.com

19 May 2017 12:01:06

---

**I object to the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

A large area of the Pilliga Forest, of approximately 1,000 hectares will be cleared to facilitate construction of well sites and other infrastructure, this is not acceptable. This clearing will destroy precious habitat for native fauna and flora species, some of which are threatened species.

As a re-charge area for the Great Artesian Basin, the Pilliga State Forest needs to remain in its natural state. By clearing and removing groundcover and trees, the disturbance in general will impede the natural ability of the area to continue to serve as a link to the aquifer and maintain its role as a 'filter', will be lost. Pilliga sits above our most precious resource, our underground water, which will be compromised if drilling to extract Coal Seam Gas is approved.

Fugitive and deliberate emissions of Methane resulting from the activities of the Coal Seam Gas extraction process will add to climate change that is already affecting our planet. This Methane gas needs to be contained as nature intended in the substrata and not released into the atmosphere.

From a health perspective, venting Methane gas into the atmosphere is unacceptable, it is not normal or a natural occurrence in this Forest and it should not be trivialized or allowed.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

If NO guarantee can be given that the Great Artesian Basin will not be contaminated in any way, then this or any future approval should not be given to Santos or any other extraction company. This Great Artesian Basin water reserve is pristine and it should be conserved and protected at all costs.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

Clean water, Air and Sustainable Healthy Ecosystems, are needed to sustain future generations. It is our responsibility to see that Forests such as the Pilliga State Forest are maintained in their natural state and not destroyed by the greed of a few at the expense of our Children and future generations; the Traditional Gomeroi custodians, who have a deep connection to Country and their Heritage which is irreplaceable and will be destroyed; our Farmers who rely on water for agricultural production to feed the nation; the local towns that provide services to the rural communities; the intricate Eco-systems that support such diverse Flora and Fauna, some of which are Threatened Species; and ultimately ME and YOU! No one can live in this great country without Clean Water, Air and Land.

This Coal Seam Gas project in the Pilliga State Forest should not be approved.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Roselyn Druce

"Wongalea" 66 Teston Lane, Maules Creek, Boggabri NSW 2382

92 ✓

**Daniel Rodgers**

Gungas Road, Nimbin, New South Wales, Australia  
dwr002@student.usc.edu.au

21 May 2017 15:06:50

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Seriously bro don't be a dingus, we all know where this road is heading, you are only creating misery for yourself, you still have a chance to come out of it, there is always a chance to come out of it, you are a healer, you are a blessed part of nature, thankyou, I love you

.

Signed,

Yours sincerely,

Daniel Rodgers

Gungas Rd, Nimbin NSW 2480, Australia

93✓

**Perry Gretton**

21 Palm Valley Road, Tumby Umbi, New South Wales, Australia  
perry@perisys.com

22 May 2017 12:10:58 PM

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project on the grounds that coal seam gas extraction releases copious volumes of methane, which is far more detrimental to the atmosphere than CO<sub>2</sub>. Global warming is a clear and present danger, and we should take every step possible to try and contain its effects.

Yours sincerely,

Perry Gretton

21 Palm Valley Rd, Tumby Umbi NSW 2261, Australia

94 ✓

**Robert Sullivan**

Louisa Road, Birchgrove, NSW, Australia  
robsullivan999@gmail.com

21 May 2017 11:20:09

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected. Its potential impact on land clearing, water management, wildlife and on important aquifers renders the project unsuitable for Australia. Please reject this proposal.

Robert Sullivan

Balmain

NSW





96 ✓

**Wendy Dooley**

9 Music Street, East Lismore, New South Wales, Australia

wendyret12@gmail.com

20 May 2017 01:38:37

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I strongly object to this project and ask that it be rejected.

Summary: We simply do not know enough about the impact of drilling and until scientific research can WITHOUT DOUBT, prove gas exploration and the effects of drilling, to be 100% harmless to the land, our water and people, I cannot support the Narrabri Gas Project.

Why Do I Object?:

Nothing I have read or researched convinces me that the gas industry fully acknowledges the potential damage to Australia's precious underground aquifers. Quite simply, not enough is known about coal seam gas and the ramifications of obtaining it.

We cannot compare our land and environmental conditions to those overseas. Too little research has been completed and what studies have been done, prove that the potential to ruin our natural resources is too high. I fear for the health of anyone living in the near proximity of drilling and frankly, I am really frightened about what the release of methane gas may do.

Despite arguments telling me we need this project for jobs and as a source of increasing our economy, I would much rather suffer the consequences of doing without, than wreak havoc on our country. The consequences of gas drilling could last for hundreds of years - can we turn a blind eye to the effects of short term monetary gains? NO!

I urge our Government to stop and re-think how the Narrabri Gas Project could impact on farmers, residents of Narrabri, the indigenous peoples of the region and the vegetation of the Pilliga. Forests degraded, precious fauna and flora destroyed, farming land lost, health issues and the underground aquifers contaminated - unbelievably sorrowful situations that cannot be reversed if "something goes wrong".

Please, NSW parliamentarians, respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

I urge the Government to reject this project and make the Great Artesian Basin recharge, off-limits to gas mining.

Signed,

Yours sincerely,

Wendy Dooley

9 Music St, East Lismore NSW 2480, Australia

97 pg 1/2 ✓

**Michelle Robinson**

23 Frederick Street, Windermere Park, New South Wales, Australia

raggletagglegypsygirl@yahoo.com

20 May 2017 00:30:21

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Would increase extensive levels of methane emissions via leakage and venting within the process of extraction which all elevates the ongoing effects of climate change.

2. Will have direct contact and damage the Great Artesian Basin and this will decrease access to water that many rural communities throughout Western Australia rely upon.

3. In the first five years of production there will be over 35 billion litres of salt laden groundwater extracted. Once this water is treated there will be 500000 tonnes of salt waste with no specific plans for disposal which are deemed safe or adequate.

4. Will clear fell approximately 1000 hectares of the beautiful Pilliga Forest which is the largest temperate woodland in NSW and the habitat to many unique wildlife such as glossy-black cockatoos, barking owls, eastern pygmy possums, koalas, red-capped robins, regent honeyeaters and the unique Pilliga mouse. There are 25 nationally listed and 48 state listed threatened species within this specific habitat area. It will also split and divide the area into fragmented sections which will break up the integrity of this unique ecosystem and put other species in catastrophic and life threatening circumstances.

5. The Gamilaraay people consider this area to be extremely significant in relationship to their cultural, social and spiritual lives. The destruction of this area will only contribute to the ongoing trauma by enforcing barbaric colonisation attitudes into the present and taking away their right to their connection of this country.

6. There is evidence that previous and ongoing Santos coal seam gas export activities in Queensland have created increases in gas prices and supplies have not always been reliable.

7. While Santos may imply that there will be an increase in jobs it is not uncommon for mining companies to fly in their workers and bring existing workers from other mines. This coal seam gas mine will also jeopardise valuable agricultural areas and jeopardise their existing farming workforces. The mine will also have long term negative outcomes for the future use of land within the area and access to the Great Artesian Basin.

8. It will create light pollution which will affect the beautiful night sky around the Siding Spring Observatory which is internationally renowned.

9. This project will put the health of the local population at risk which neither Santos or the NSW Government will adequately address. But it is now recognised across the United States via peer-reviewed research that coal seam gas extraction has detrimental health risks for those within the area.

While populations are increasing across the world and governments are struggling to deal with economic stability and providing reliable resources to the populous they do not need to do this by investing and green-lighting coal seam gas projects such as this proposed mine in the Pilliga Forest. These solutions are not based on logical problem solving processes but in supporting outdated ways and backing corporations that have a strangle hold on governments and financial institutions globally.

97 pg 2/2

There are many forward thinking governments and countries such as Sweeden, Costa Rica, Scotland, Germany, Denmark and Uruguay who are already moving to sustainable energy solutions. This is a great opportunity to make some forward thinking approaches to governance. All the solutions are there within sustainable energy options which will not only protect our sacred and essential environment for human survival but also create jobs for new industries across the beautiful Australian landscape.

Please stop supporting the boys club of the Mining industry and old money and start thinking about what you are leaving or not leaving for future generations.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Michelle Robinson

23 Frederick St, Windermere Park NSW 2264, Australia

98 ✓

**Michele Lacroix**

123 Stuart St, Mullumbimby, New South Wales, Australia  
possumstwo@gmail.com

19 May 2017 10:10:49

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Submission to the Narrabri Gas Project EIS.

We strongly object to this project and believe it should be rejected.

CSG is a process the long term effects of which have still not been fully understood, other than that it is destructive to the land & the water.

We are sick of the government trying to impose this industry on us when the overwhelming number of citizens do not want it.

Gas prices are rising as we speak, so much gas is being exported that it seems there is not enough for the country's needs - except at high costs.

The government is saying we need this gas - but that's because Queensland is exporting all their gas so is not able to supply to NSW!

It is of benefit only to shareholders - in this case Santos shareholders.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The government of NSW needs to invest in more reliable and ultimately cheaper renewable energy. People everywhere want renewable energy.

It will cause economic upheaval in Narrabri and put agricultural industries at risk.

We know that CSG is harmful to health - but our Government and Santos refuse to acknowledge this.

In the US, there is now evidence of serious health issues from the industry.

We demand that our Government reject this project.

Our land & water is for everyone.

Signed,

Yours sincerely,

Michele Lacroix

David McCarthy

123 Stuart St, Mullumbimby NSW 2482, Australia

99 ✓

ned haughton

173 Parry Street, Hamilton East, New South Wales, Australia  
naught101@gmail.com

22 May 2017 11:43:20 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and urge you to reject it.

You are already aware of all of the negative impacts to the local and global environment, as well as the social impacts that this project will have. These are laid out in great detail by many other submissions, in particular those by Lock the Gate and The Wilderness Society.

I would just like to emphasise the fact that you, as the final decision makers for this project, are wholly responsible for those impacts. If you choose to reject this project, you will prevent those impacts from occurring. If you chose to allow this project, the blame for the environmental and social impacts, which will directly affect thousands of locals, and contribute significantly to adverse impacts on the lives of billions of humans and millions of other species world wide through climate change, can be laid solely at your feet.

Do not fuck this up.

Cheers

ned haughton,

PhD candidate, Climate Change Research Centre, UNSW.

173 Parry St, Hamilton East NSW 2303, Australia

100 ✓

**Mick Shields**

50 Creighton Road, Lakesland, New South Wales, Australia  
mick@authenticservices.com.au

21 May 2017 09:29:27

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I live close to the world heritage listed Thirlmere lakes. If you want to see what happens when mining companies go about their business, come visit what used to be a pristine lake system.

this madness has to stop and the people will hold the politicians responsible.

Signed,

Yours sincerely,

Mick Shields

50 Creighton Rd, Lakesland NSW 2572, Australia

**Clare Power**

2 Jubilee St Katoomba NSW Australia 2780  
clarempower2@gmail.com

22 May 2017 11:34:16 AM

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**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I am opposed to this project and my submission calls for its rejection.

Just some of the damaging effects of this project are that it would

- Drill through a groundwater recharge zone of the Great Artesian Basin and threaten food and fibre production in the Narrabri region
- Extract over 35 billion litres of saline groundwater and produce almost 500,000 tonnes of salt waste
- Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.

Not only this but it will contribute to climate change through methane emissions. And Australia has to contribute to lowering emissions not increasing them when the planet is facing rising emissions and the devastating consequences of this.

Very importantly the Gamilaraay people have pointed out the significance of this land to them and this needs to be honoured.

There is no justification for this project that outweigh the harm it will cause societally, culturally and physically.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Clare

Yours sincerely,

Clare Power

2 Jubilee St Katoomba NSW Australia 2780



Heather Lucke

27 Riddell St Bingara 2404  
alec.lucke@gmail.com

19 May 2017 08:56:48

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

The huge salt by-product would present a long term threat to environment.

Clearance of the Pilliga Forest, would fragment the largest temperate woodland in New South Wales and remove habitat for unique wildlife.

Drill through and depressurise the Great Artesian Basin that is relied upon by rural communities across western NSW.

Deliberate and fugitive emissions of methane will add to climate change.

The project will also cause more trauma to the regional Aboriginal community and further erode the spiritual, cultural and social life of Gamilaraay people.

Santos' coal seam gas export activities in Queensland have caused domestic gas prices to rise and supply to become unpredictable.

NSW should invest in more reliable and ultimately cheaper renewable energy sources.

The project has already polarised the Narrabri community and will put agricultural industries at risk.

Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Heather Lucke



103 ✓

**Donna Toulmin**

32 Rickard Road, Warrimoo, 2774  
donna\_toulmin@yahoo.com.au

22 May 2017 11:09:23 AM

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**I object to the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission related to the Narrabri Gas Project EIS.

I object to this project, please reject it.

I believe government agencies have a responsibility to protect their citizens, not harm them.

The emissions of methane from gas projects add to climate change by a factor of around 22 compared to carbon dioxide emissions. Climate change mitigation is the challenge of our generation and we are failing. We rely on planning departments like you to protect the ecosystems we rely on to survive. I turn off lights when I can, I walk instead of drive when possible, but none of that makes a difference if this gas project is approved.

Can we please prioritise government spending and approvals in renewable energies? Not damaging fossil fuel endeavours like this one.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Donna Toulmin

Yours sincerely,

Donna Toulmin

32 Rickard Rd, Warrimoo NSW 2774, Australia

104

✓

**Bernard RAMSEY**

5 Ridley St, Abermain, New South Wales, Australia  
bjramsey@ozemail.com.au

18 May 2017 09:58:54

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

My major concern for this project is the unknown consequences and irreversible position we could find ourselves in should the aquifer be damaged in any way. I spent many years in the north west and saw first hand the wonderful primary production that was achieved by the whole area and this can not be put at any risk for the benefit of a few and for corporation and shareholder profit.

If the underground water supply did get contaminated who would compensate the thousands of farmers, small businesses and workers who would no longer be able to produce? Santos? Not likely. They would not have the means and neither would the Government. The risk is just to great.

There is just no way that the area can be protected by what is proposed except by not allowing this really dumb idea to be developed. Experts say there is no or very little risk to the water supply but any risk at all is far to great a risk for many future generations.

Please stop this madness now.

I urge the Government to reject this project once and for all and make the Great Artesian Basin totally off-limits to gas mining.

Signed,

Yours sincerely,

Bernard RAMSEY

5 Ridley St, Abermain NSW 2326, Australia

**Stephen Liddicut**

194 Inkerman Street, Saint Kilda East, Victoria, Australia  
sglid105@gmail.com

19 May 2017 13:13:27

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**CSG- A Ticking Time Bomb. Attempts to further the reach of this destructive industry, through the Narrabri Gas Project, must be stopped.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

To Whom it may concern,

There are a plethora of reasons as to why the Narrabri Gas Project is inconsistent with the best interests of the local community and environment which stands to suffer the direct impact. This combined with the net loss in conditions to the broader Australian interests, through the degradation of the vitally important recharge aquifer to the Great Artesian Basin, damage to the ecological balance in the Pilliga Forest, reduction of the viability of agricultural output and desecration of a land for which Gamilaraay people have maintained a bond and reliance over thousands of years, make the Gas Project a very bad idea, worthy only of outright rejection by your department.

I see little value in providing meticulous detail to the range of adverse consequences which shall be visited upon those in the Narrabri district if the project were to proceed. I would rather prefer to avoid generating more of the 'same' in the way of data.

I am only too aware of these issues, as I know you will be, as a consequence of a more than sound account of them in the multitude of objections supported by anecdotal and scientific data. I am confident these shall be adequately covered in thousands of submissions forwarded to you with relevant supporting data from the history of the unconventional gas industry and its impacts in Australia and elsewhere, as well as ever increasing peer reviewed scientific reports and studies from the U.S. documenting the numerous ill effects of the industry.

There is, however, one point for which I struggle to forego mentioning, as it is such a 'basic nuts and bolts issue' in Santos's EIR and displays breathtaking contempt in the exercise of satisfactorily addressing the fundamentals, through lack of detail.

The omission of detail goes to the issue of the 850 well proposal, with no map clarifying well location and detail for the lines of infrastructure in and around them. Location decisions based on "Field Development Protocol" is inadequate and unsatisfactory in enabling proper scrutiny, handing Santos excessive power in an ill-defined proposal. This would involve a set of circumstances for assessing a project which is unprecedented in NSW and would attach weak, unbinding constraints which could be subject to change by Santos later.

Consideration the merits of the proposal.

It seems that in arguing the case for a large scale project these days, all one, on the promoter's side, needs to do, is mention the word 'jobs' and somehow that is adequate in putting paid to the validity of any counter argument.

It is probably all that may be promoted by way of incentives and there is little else. Estimations of job numbers are typically wildly varying but getting caught up with accuracy is not a constraint that a normally hinder spin doctors and the politicians only too happy to echo acc Attaching an exact number to the type of jobs is of little concern, as it is far from a precise science limited by the extent of imagination or gall of the spin doctor or politician of the and prone to untested and extravagant claims. Big numbers, wild claims, it doesn't seem to matter too much. Somehow we have entered into the realm of the most sacred of all causes, jobs. The 'jobs' mantra is delivered as though the holy grail by desperate politicians searching for justification for a proposal which fails all tests under close scrutiny.

105 pg 2/2

This is very much the case with this Narrabri Gas Project.

It doesn't matter which metrics you wish to apply to measure the true benefits of this proposal, whether they be environmental, impact on precious water supply, human health, protection of the viability and sustainability of conditions which support all farming and community needs now and into the future, climate change, the imperative of investment in the long term energy solution of new and innovative renewable energy technologies, the responsibility for all current generations to ensure the least damaging footprint on the natural world for the benefit of all future generations, preservation of a cultural connection to land which has existed for thousands of years.

On all these fronts we have Fail, fail, fail..... "Oh but there will be jobs."

Mention of substantial benefit to taxpayers through any worthwhile royalty windfall is a bit of a sore point currently.

It seems it is OK to gouge our resources to the point where we suffer a shortage of domestic supply but the bulk of the financial benefit is also exported.

If we are to turn this absurd situation around, courage, leadership and principle are in desperate need.

By allowing these attributes a place in the process of assessing the Narrabri Gas project, only one real option emerges.

It is clear that an outright rejection of the project is the only possible outcome which preserves a truly worthwhile and lasting order of the natural world which will serve us now and into the future.

The alternative is fraught a litany of destructive outcomes which will be provided in ongoing installments, indefinitely.

I urge that ensure this is not the case and that you REJECT the proposal for this gas mining project.

Signed,

Yours respectfully,

Stephen Liddicut

194 Inkerman St, St Kilda East VIC 3183, Australia

**Tracey Carpenter**

76 Havannah Street, Bathurst, New South Wales, Australia  
havannah@bigpond.net.au

22 May 2017 09:48:10 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and demand that it be rejected. As it will:

1. Lead to large deliberate emissions of methane from venting and leakage, adding to climate change. The project application fails to consider the consequences of fossil fuel emissions from the project and the contribution overall to Australia's carbon emissions and the disastrous consequences for accelerating climate change.

In Paris in December 2015, the world, Australia included, agreed to hold global average temperature to "well below 2 degrees above pre-industrial levels and to pursue efforts to limit the increase to 1.5 degrees", albeit the emission reduction commitments Australia tabled were laughable in comparison with our peers and with the size of the challenge.

Dangerous climate change, which the Paris agreement and its forerunners seek to avoid, is happening at the 1.2-degree increase already experienced as extreme weather events, and their economic costs, escalate. A 1.6-degree increase is already locked in as the full effect of our historic emissions unfolds.

Our current path commits us to a 4 to 5-degree temperature increase. This would create a totally disorganised world with a substantial reduction in population, possibly to less than one billion people from 7.5 billion today.

The voluntary emission reduction commitments made in Paris, if implemented, would still result in a 3-degree increase, accelerating social chaos in many parts of the world with rising levels of deprivation, displacement and conflict.

It is already impossible to stay below the 1.5-degree Paris aspiration. To have a realistic chance of staying below even 2 degrees means that no new fossil-fuel projects can be built globally – coal, oil or gas – and that existing operations, particularly coal and gas, must be rapidly replaced with low-carbon alternatives.

In addition I object to this project and believe this project should be rejected because:

This project, if approved, would:

2. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
3. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
4. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.



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The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Tracey Carpenter

76 Havannah St, Bathurst NSW 2795, Australia

107pg 1/3 ✓

**Robyn Walters (Secretary, North West Plains Sustainability Group)**

178 Nilma Road, Walgett, New South Wales, Australia  
nwpsg.secretary@gmail.com

03:49:50 PM 03:49:50 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

The North West Plains Sustainability Group (NWPSG) objects to this project and believes it should be rejected.

(NWPSG) objects to the Narrabri Gas Project on the grounds that this project risks:

- Contaminating a recharge area of the Great Artesian Basin (GAB)
- Lowering the water pressure in the Great Artesian Basin (GAB)
- Contaminating overland water flows that are part of the Murray Darling Basin (MDB)
- Contaminating fragile ephemeral wetlands.

Alternative energy sources are available eg solar that are renewable and do not pose the above listed risks.

The Precautionary Principle was applied when invoking the 2003 NSW Native Vegetation Act to mitigate any adverse unknown effects of vegetation clearing. Why isn't this same principle being applied to the Narrabri Gas Project and other gas projects to assist in protecting the integrity of GAB and MDB and its associated wetlands.

**Background**

Since 2005 NWPSG has supported landholders in the Walgett Shire (NW NSW) to take up sustainable farming practices and natural resource management and consequently facilitate resilient businesses and communities. NWPSG has 60 members who are involved in enterprises including extensive sheep and cattle grazing, broadacre dryland cropping and/or irrigated crops such as cotton.

Agriculture has been the predominant economic driver in this Shire since the early 1800s and in 2012 Walgett Shire was the third most productive Shire in NSW after Moree Plains and Griffith Shires.

**Water**

The supply of good quality, fresh water is fundamental and critical to operating any profitable farming business.

**Sub artesian water supply**

In the drought of the early 1900s local properties that were not located near rivers were abandoned due to the lack of a reliable water supply. It was not until Sub Artesian bores were sunk which accessed a reliable water source that these properties were resumed and became viable propositions. Since then sub-artesian water has been a significant driver of profitability and an important factor in preparing for drought.

The GAB extends over 22% of the Australian continent where it is the only reliable groundwater or surface water source – especially important for the world’s driest continent. It is unique in the world and a national icon similar to the Great Barrier Reef and Uluru. The Pilliga Sandstone, the location of the Narrabri Gas Project, is a recharge area for the GAB and its integrity is critical to ensure the GAB is fed with fresh, non-contaminated water.

A media release (12/5/17) from the Federal Minister of Agriculture states, “It’s estimated that water from the Basin underpins at least \$12.8B in economic activity annually...” and “The Great Artesian Basin directly supports more than 180 000 people in more than 120 towns and 7600 businesses in regional and remote Australia...”.

Approximately 20 years ago both landholders and government recognised the importance of minimising the wastage of this precious resource and invested in capping and piping bore schemes. This has resulted in a reduction in evaporation water loss of 95% and increases in bore pressures. To date government has invested \$115M and landholders have invested at least the equivalent amount in cash and time. This program is so successful that the Minister of Agriculture announced further funding of \$8M on 12/5/17.

The Narrabri Gas project risks these benefits. What will it cost if GAB is damaged? Can any damaged be repaired? Who will pay for repairing the damage?

Murray Darling Basin and associated ephemeral wetlands

The Walgett Shire adjoins Narrabri Shire and the proposed gas pipeline affects some ratepayers. The eastern part of the Shire is predominantly a floodplain for the Namoi, Barwon, Macquarie and Castlereagh Rivers and their tributaries. These rivers are part of the Murray Darling Basin. There are 200 listed, fragile ephemeral wetlands associated with these rivers. There is also a significant irrigated cotton industry associated with these rivers.

The pilot Narrabri Gas Project has produced concerning downstream water pollution. Especially worrying is the discharge of desalinated yet still contaminated waste water into the Bohena Creek, a tributary of the Namoi River. According to the EIS and Department of Planning & Environment, millions of litres of water that has been removed from the coal seam and processed via a Reverse Osmosis system, will be pumped directly into the creek. Whilst Reverse Osmosis is an effective purification process, it is not capable of removing ALL the various heavy metals and radioactive elements present in the coal seam water.

Monitoring of water quality will be conducted “in house” and down stream, rather than at point of injection, and whilst it can measure water quality against its specifically set contamination levels, it can do nothing if they are exceeded.

At peak production the Project will produce 115t of contaminated salt that, according to the EIS, is to be disposed of in landfill sites locally. This is 40,000t of salt a year, and all with the potential to be flushed into the Namoi river system in the occasion of a significant flood event.

The presence of either pollutants or salt in the Namoi River, in the quantity that the Project has the potential to produce, will not only affect local irrigators, but all townships and landholders reliant on the Namoi River for hundreds of kilometres downstream.

The Narrabri Gas project risks the Murray Darling Basin and associated wetlands. What will it cost if the Murray Darling Basin is damaged? Can any damaged be repaired? Who will pay for repairing the damage?

I urge the Government to reject this project and make the Great Artesian Basin recharge and Murray Darling Basin off-limits to gas mining.

Signed,

Robyn Walters

Secretary



107 pg 373

North West Plains Sustainability Group

Walgett

Yours sincerely,

Robyn Walters (Secretary, North West Plains Sustainability Group)

Ashantee, 178 Nilma Rd, Walgett NSW 2832, Australia

108 ✓

**Christine and Lynne Pettall**

36 Mount Torrens Rd, Lobethal, South Australia, Australia  
pettall@internode.on.net

22 May 2017 08:11:12 AM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

We object to this project and believe it should be rejected.

We like hundreds of thousands of Australians live in the apparently naive belief that a conservation area is just that, a conservation area. We can't kill anything, cut down anything, or dig up anything. But wait if you are a mine you can do all of these things.

Whenever we've spoken to anyone and asked what do you think can be done in a conservation area. Everyone is horrified to discover that mining is allowed in any conservation area.

The fact that the Pilliga is one of only a handful of absolutely pristine areas in Australia is telling.

Most other areas touted as pristine are regrowth or small remnant areas.

Clearing any of the Pilliga is nothing short of environmental vandalism. We have no idea what other rare species, other than the Pilliga mouse, may yet to be discovered.

We understand that recent testing of the aquifer has tested positive for toxins introduced as a result of the over 60 mines which currently exist in the Pilliga.

We also know that large and deliberate emissions of methane from venting and leakage, are already occurring, adding to climate change. These will increase dramatically if the proposal goes ahead.

We urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

We also urge the government to question why any activity that has any impact at all on the environment is allowed in a conservation area.

Yours sincerely,

Christine and Lynne Pettall

36 Mount Torrens Rd, Lobethal SA 5241, Australia

**Gail Hartnett**

311 Friday Hut Road, Possum Creek, New South Wales, Australia  
ghartnett1@optusnet.com.au

03:34:44 PM 03:34:44 PM

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

There are so many reasons that this should be rejected and opposed to.-the lack of maps showing the exact location of the proposed 850 wells.

The harm to the environment would be profound. the Great Artesian Basin provides water for a huge amount of agricultural land- the farmers who are the very backbone of our country.

The harm to the economic and social areas will impact the towns badly and local towns that have been the life blood of the area for many generations will waste away as we have seen at other towns that have seen affected by the mining industry in the past few years.

The problem of the salt that as a result of the mining poses the problem of how to dispose of the salt. Expected amounts of up to 115 tonnes per day is a huge amount to dispose of without it impacting on the environment somewhere else.

The cultural heritage for the Gomeroi / Gamilaraay people needs to be considered. This area is of spiritual, social and cultural importance to the local indigenous people and is their connection to country. It is morally wrong to cut them from being able to access their heritage.

Environmentally, this mining would clear almost 1,000 hectares of the largest temperate woodland in New South Wales. This land is the habitat for the endangered Regent Honeyeater and also the declining numbers of koalas.. The clearing will clear the breeding area for the Pilliga Mouse which is only found in the Pilliga. To clear and mine this rich , lush land that is home to so much wildlife is a crime against the environment.

For Santos , their three year social impact assessment is totally inadequate. There is mounting evidence showing the health damage that shows that water is contaminated and a great range of respiratory illnesses. Apart from the physical health issues that have appeared at other CSG mining towns- migraines, bleeding noses and respiratory illnesses, there is the mental health to be considered. There have been too many suicides by farmers who have lost their livelihoods and seen their farms deteriorate before their very eyes in a short period of time, Many farmers have inherited their farms from their families in previous generations or hey have chosen to be farmers to start a business for their families in future generations. To see this disappear every day, leads to depression and sometimes suicide.

The air quality is another issue that needs to be investigated. there will be significant emissions of PM2.5. The air quality assessment fails to model the substantial escape of the methane emissions adequately.

110



**Melissa Irving**

'Toucan', Warren, NSW.  
melissa@irving.com.au

18 May 2017 20:05:31

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

As farmers we implore you to consider the future of farming in NSW and ultimately our capacity to produce our own and export food.

Drilling through a recharge aquifer of the Great Artesian Basin and drawing water down from a water resource we rely upon is criminal. Please think long term and not short term. If the people who will be most closely impacted upon by this are against it you simply must listen to the will of the people.

Signed,

Yours sincerely,

Melissa Irving

'Toucan', Warren, NSW.

111 ✓

**Ronny Hickel**

Doon Doon Road, Doon Doon, New South Wales, Australia  
innerunion@yahoo.com.au

14 May 2017 15:01:01

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Please protect our environment. We have a responsibility to our future generations.

The Narrabri Gas Project is not sustainable and potentially risking contamination of Australia's precious water supplies.

The area of impact is also important to the spiritual, cultural and social life of Gamilaraay people.

Coal seam gas is harmful to health. please research the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States before making an approval.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

Ronny Hickel

112



**Pamela Ditton**

60 Shelley Drive, Byron Bay, New South Wales, Australia  
dittons@internode.on.net

14 May 2017 15:20:15

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change. That just cannot be justified when every day there is increasing evidence of the speed of warming. We are in an emergency situation.
2. Every possibility that all or most of the gas would be exported. That will do nothing to solve any local shortage of gas and keep the price inflated.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Pamela Ditton

60 Shelley Dr, Byron Bay NSW 2481, Australia

113 ✓

**Lesley Robinson**

39C Freesia Way, Willetton, Western Australia, Australia  
lesleyrobinson39@icloud.com

14 May 2017 15:20:18

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

As I live in Western Australia you may ask what has it got to do with me.

I have read carefully the argument the Lock the Gate Campaigners have put forward and support the validity of the research they have done. The videos I have seen of farmland destroyed in America as a consequence of mining is devastating.

I believe if the government allows this project to be implemented it will also reinforce the Western Australia government's belief that it will be o.k.to implement similar projects here.

Please, cold seam gas is not the way to go. We have to do more research into other sources of economically viable energy that is not going to be so destructive.

Signed,

Yours sincerely,

Lesley Robinson

39C Freesia Way, Willetton WA 6155, Australia

114 ✓

Linda Newton

268 Bulwara Road, Ultimo, New South Wales, Australia  
lnewton2007@gmail.com

14 May 2017 14:28:30

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is my submission to the Narrabri Gas Project EIS. I am moved to write to you because I strongly oppose coal seam gas drilling.

If approved, this project will be devastating to the environment and to our children's future. These are some of the reasons why.

In a continent as dry as Australia, a plan to extract more than 35 billion litres of salt laden groundwater is stupidity. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.

In a continent as dry as Australia, with such a fragile ecosystem, a plan to clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife, is madness.

As I've already said, in a continent as dry as Australia, a plan to drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW, is criminally selfish.

As a country, we talk big about the importance of our farmers and rural community, but this project has the potential to damage agriculture and destroy the livelihood of our farmers.

As the 'ruling majority', whitefellas have done our best to destroy Aboriginal culture and community, yet we haven't quite managed to. but this project will be another nail in the coffin of indigenous culture, taking place in an area of spiritual, cultural and social relevance to the Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

The government of NSW must show leadership, not weakness, and invest in renewable energy.

Coal seam gas is harmful to health. We know this. Increasingly, research is proving this. .

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

Linda Newton



115 ✓

David Howsam

21 Loftus St, Leichhardt, New South Wales, Australia  
dave.howsam@yahoo.com

14 May 2017 15:10:30

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

extract over 35 billion litres of toxic groundwater, much of it in the first five years. This water will be treated and in the early years will generate tens of thousands of tonnes

of salt, for which there is no safe disposal plan.

- clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
- cause significant diversion of water from a recharge aquifer of the Great Artesian Basin, which is a water resource relied upon by rural communities across western NSW.
- lead to large deliberate and fugitive emissions of methane, adding to climate change.
- cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

It is not justified: Santos' own Coal Seam Gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable. NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

D. Howsam

Yours sincerely,

David Howsam

21 Loftus St, Leichhardt NSW 2040, Australia

116 ✓

**James Walker**

167 Balaclava Road Caulfield North VIC 3161  
jim\_w304@hotmail.com

14 May 2017 14:36:22

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

It seems likely that any profits generated from this project will be outweighed, or greatly reduced, by the environmental damage caused and the long term costs of repair.

There will be a substantial generation of greenhouse gases.

There will be substantial generation of saline water.

There will be loss of native forest and increased threat to indigenous species.

There will be adverse impacts on other industries

Is this a case of putting a fast dollar above the negative and long-term costs?

Signed,

Yours sincerely,

James Walker

167 Balaclava Road Caulfield North VIC 3161

117 ✓

**Colin Apelt**

40 Ivy Street, Indooroopilly, Queensland, Australia  
colin\_apelt@bigpond.com

14 May 2017 14:49:39

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I record my objection to this project; I recommend that it should be rejected.

This project, if approved, would:

(i) Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. When our water is gone we cannot drink gas!

(ii) Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.

(iii) Result in large deliberate emissions of methane from venting and leakage, adding to climate change when the pressing need is to reduce such emissions

Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales that is home to unique wildlife.

(iv) The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

118 ✓

**Sarah Eisel**

6033 Inglewood Millmerran rd Inglewood  
Sarah@woodspring.com.au

14 May 2017 14:33:17

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected on the grounds the waste water produced is a serious risk to agriculture and the environment. Furthermore, csg companies have a history of polluting and not being held accountable, and the great Artesian basin is in the firing line. Why take the risk?

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Sarah Eisel

6033 Inglewood Millmerran rd Inglewood

119 ✓

**Tanya Dwarte**

55 Hanlan St S, Narara, New South Wales, Australia  
tdwarte@gmail.com

13 May 2017 11:33:37

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

My biggest concerns are:

1. Rural communities across western NSW rely upon the supply of water from the Great Artesian Basin for their homes and agricultural businesses. Loss of water and the generation of huge quantities of salt waste, for which there is no safe disposal plan, will negatively impact the environment and the lives of locals.
2. Having recently travelled through several of these towns (Coonabarabran, Coonamble, Narrabri and Quirindi) I have an appreciation for our beautiful country and the importance of the community spirit. Clearing of 1,000 hectares of the Pilliga Forest, will negatively impact wildlife and the visual appeal of the area. The locals are CLEARLY against this project, and these townships will be irrevocably disadvantaged if the project goes ahead.
3. Inadequate information about the location of wells, and how they are going to improve this project in light of previous failures and damage caused by the QLD projects. This proposal is just too risky in its current state. You cannot justify destroying the environment just to make a few bucks.
4. Environmental contaminations, particularly the release of methane from venting and leakage, adding to climate change. There is also a real potential for contamination of the great artesian basin water supply which will have far reaching consequences across the country! Also, coal seam gas is itself harmful to health, yet Santos and the NSW Government have failed to adequately investigate or address the accumulating evidence for this.
5. The project shows a lack of respect for the regional Aboriginal community because the land plays a crucial role in the spiritual, cultural and social life of Gamilaraay people.
6. The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable. Rather than driving up prices of a non-sustainable or predictable resource supply, NSW should invest in more reliable and ultimately cheaper renewable energy.
7. This will significantly impact the livelihood of farmers, the rural communities and reduce tourism. It will not just impact agriculture in the region, but also light pollution will impact operations of the Siding Spring Observatory.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining. It is just far too important for our farmers, our environment and our country as a whole to risk

Signed,

Yours sincerely,

Tanya Dwarte

55 Hanlan St S, Narara NSW 2250, Australia

**Fred Payne**

1/16 Elizabeth MacArthur Avenue, Camden South, New South Wales, Australia  
fred\_payne@yahoo.com.au

12 May 2017 23:30:27

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**Objection to the Narrabri Gas project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected on several grounds

1. The proposal lacks detail of where the wells would be located, and without maps and details of the where the wells and infrastructure would be located the EIS is really of no value in assessing the merits or problems that might arise
2. The suggestions of how the large volumes of extracted groundwater are vastly inadequate, and in the long term would be likely to cause significant degradation of the environments where the water and salt are to be disposed of. This practice would also pose a threat to the Great Artesian Basin (an invaluable, irreplaceable asset for rural industries across the regional
3. Clearing a significant area of the Pilliga forest put native species at risk and certainly goes against international efforts to reduce tree clearing and loss of habitat for native species

At a time when it has been shown that burning CSG still produces unacceptable levels of CO2 and methane pollution it is hard to see how the project can be justified in the light of continued threats to the Great Barrier Reef and the increase in devastating weather events round the globe,

So at a time when it is also becoming clear that clean sustainable energy is now able to do the job more economically and without the environmental destruction, I believe that the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Fred Payne

1/16 Elizabeth MacArthur Ave, Camden South NSW 2570, Australia

121 ✓

**petra cram**

Rivett, ACT, 2611  
petracram@yahoo.com.au

12 May 2017 20:48:53

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected on the grounds that it would involve drilling through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

Australia is the second driest continent on the planet, but has the largest body of underground water, beautifully protected from evaporation, the Artesian Basin.

Further more the project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

sincerely,

Petra Cram

Rivett, ACT, 2611

122 ✓

**Emma Chessell**

218 Morris St Melton South  
e\_chessell@yahoo.com.au

12 May 2017 13:27:20

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project is relevant to all Australians, and would directly impact me negatively if it goes ahead by 1. increasing methane emissions, 2. contributing to a distorted energy market that has driven up gas prices, 3. destroying an intact stretch of open woodland, one of the most degraded ecotypes across Australia.

Please move to ban unconventional gas projects.

Signed,

Yours sincerely,

Emma Chessell

218 Morris St Melton South



123 ✓

**Laszlo Biro**

289 Manifold Road, North Casino, New South Wales, Australia  
dimfive@connexus.net.au

14 May 2017 14:12:22

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Do we need to produce more gas for export at the cost of denying our own supply needs?

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Laszlo Biro

289 Manifold Rd, North Casino NSW 2470, Australia

124 ✓

**Brett Kenworthy**

67 Rayburn Drive, Kelso, New South Wales, Australia  
rigbykenworthy@gmail.com

12 May 2017 09:26:54

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Create almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Unnecessarily clear large parts of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Put at risk water resource relied upon by rural communities across western NSW.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

It will also cause more trauma to the regional Aboriginal community, especially the Gamilaraay people and also traumatise the regional farming community through the use of farmland for drilling or related infrastructure.

It will cause economic upheaval in Narrabri and put agricultural industries at risk throughout Western NSW, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Brett Kenworthy

67 Rayburn Dr, Kelso NSW 2795, Australia

125



**Thomas Borowski**

Pilliga

tom.borowski@agrisk.com.au

14 May 2017 19:20:18

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I believe after the many other emails you have received in regards to the submission that you will know the fundamental reasons why I oppose the plan overall.

Growing up on my home property and now living and working in Sydney, I have watched my family and surrounding families fight against Santos' CSG movement. Understanding the potential irreversible damages and unsustainable productions in Santos' operations, combined with the limited profitability and gain for the local regions- I am sure (regardless of bias) that the pipeline and further gas exploration in the area will heavily damage the community and have extreme negative events.

For this reason- I am very much opposed to the planning of the pipeline.

Yours sincerely,

Tom Borowski

Pilliga

126 ✓

**Kim Southwood**

18 Erin Drive, Browns Plains, Queensland, Australia  
kimjimau@yahoo.com

14 May 2017 19:09:03

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

As a long term resident of Australia (and a citizen of this country) I object to this project and believe it should be rejected. We have such a poor record of managing water in this country, the Narrabri Gas Project seems just another manifestation of our disconnect with the reality of conserving our natural resources and pursuing wise, sustainable, and ethical economic choices.

The generic email provided by Lock the Gate clearly sets out all the problems this Project unleashes. Can you seriously ignore them? Please reject the Narrabri Gas Project and avoid the lure of big money. It is ephemeral and our future generations will remember this as a pivotal time in shaping their future. Please make that future a healthy one.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Kim Southwood

18 Erin Dr, Browns Plains QLD 4118, Australia

127 ✓

**Darren Butler**

195 Wollombi Road, St Albans, New South Wales, Australia  
darren.evergreenery@gmail.com

14 May 2017 20:32:40

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Please Sir, can your department look at the long term consequences of this project. It is not just likely, but inevitable that a large amount of environmental degradation will be the outcome. Yes, some jobs will be created, some wealth will be distributed here and overseas, but the cost to the real world, not the financial world, is non-refundable.

There has to be a smarter future where we use our resources to support our own progress in developing a sustainable future for people not corporations.

Corporations are gaining too much power and wealth at the expense of world citizens and the planet we all share. Wrecking our environment is insane when almost entirely for short term financial gain.

Please, I urge you once more, think about our home!

Signed,

Yours sincerely,

Darren Butler

195 Wollombi Rd, St Albans NSW 2775, Australia

128 ✓

**Greg Bell**

Beechwood, NSW  
gbell\_spamless@yahoo.com

14 May 2017 20:22:55

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

We absolutely must prioritise the health and preservation of the environment over natural resource exploitation. I'd like to see our leaders promote lighter living over damaging resource extraction, and worse, exportation.

I'd rather live with less 'wealth' than destroy and export Australia.

Yours sincerely,

Greg Bell

Beechwood, NSW

129 ✓

**Janet Fenwick**

264 Frost Track, Bulga  
randjfenwick@bigpond.com

14 May 2017 20:00:54

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The Pilliga Forrest needs to be protected.

The water and aquifers need to be protected.

We have seen far too much destruction of our environment by mining in NSW. Agricultural land needs to be retained for food production. Once water supplies are lost or contaminated they will not come back, as we have seen in other areas of NSW.

The project will impact on the local Aboriginal community.

It is time for the Government to invest in renewable forms of energy, and encourage other industries, such as Santos to do the same. It will be too late if it is not done now.

Signed,

Yours sincerely,

Janet Fenwick

130

✓

**Paxi Wright-Cheah**

327 Crofton Road, Nimbin, New South Wales, Australia  
paxi.zebedee@gmail.com

11 May 2017 12:22:02

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**URGENT...**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Paxi Wright-Cheah

327 Crofton Rd, Nimbin NSW 2480, Australia



131 ✓

**Marnie O'Brien**

33/1 Grenada Way, Parrearra, Queensland, Australia  
marnie.obrien1@bigpond.com

14 May 2017 20:18:59

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I am sure you have heard and read the factual reasons and possibilities why this project should not go ahead and therefore will not raise them again.

We all know CSG is unsafe on a grand scale. PLEASE STOP this disheartening way in which people are allowed to keep damaging the environment to make money!!!!!!

CSG is so short-term. Eco tourism, clean food and water can earn us just as much in the short and long term.

Deliver a quick decisive decline regarding this proposal, and your children and ours will thank you for it.

This Government needs to make a stand for a better way of securing energy and financial needs. Reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Marnie O'Brien

33/1 Grenada Way, Parrearra QLD 4575, Australia



Christine Degan

Canberra ACT

chris.degan@optusnet.com.au

13 May 2017 13:57:03

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**SUBMISSION:**

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**Opposition to Santos EIS for the Narrabri CSG project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission in which I set out my objections to Santos' Narrabri Gas Project EIS.

I do not believe the Santos' EIS for the development should be approved for the following reasons:

1:

The extraction of vast quantities of precious groundwater from the Great Artesian Basin poses a risk to the the future of agricultural and pastoral activities in eastern Australia. It is a simple madness to risk a resource that is irreplaceable. Australia is by and large a dry landmass with critical underground water which, if contaminated, will be catastrophic.

2:

There is no certainty in relation to the future integrity of the pipes and bores and vents that will be necessary for CSG extraction. I have no confidence that anyone will maintain this infrastructure in perpetuity. This proposal by Santos will reap short term multinational profits and leave Australia with probable damage and the costs of remediation, if remediation will be even possible.

3:

I am further concerned by the failure of the EIS to address the issue of dark skies so critical to the future of the internationally significant facility at Siding Springs. Massive flares during the night will irreparably damage the work of scientists. Such damage would be a loss to the nation and indeed the globe.

4:

I am aware that the vast quantities of wastewater extracted from the fracking will be highly contaminated with salt and other undesirable elements. Stabilised in the soil and rock strata these these salts pose no risk. Brought to the surface there will be an ongoing containment problem. Santos have already shown they are incapable of managing wastewater. There have been a number of 'spills' and I have personally seen the damage to the vegetation and soil that resulted from this mismanagement. In an era of changing climate there is every risk that millions of litres of contaminated water will be released either deliberately or inadvertently. This risk alone is sufficient to warrant disapproval of the projects EIS.

5:

The Pilliga is a unique environment that has supported the physical, cultural and spiritual welfare of countless generations of aboriginal people. The fragmentation of this forrest with roads and flares and extraction sites would forever damage the futures of the Gamilaraay people. Such pillage of the environment will wreck havoc on threatened and endangered species which continue to be vital to the welfare of the Gamilaraay. It is simply unconscionable to treat our indigenous people with such contempt.

6:

In addition I lodge this objection to the project on the grounds that it is utterly irresponsible to approve a project that will release to the atmosphere unquantified tonnes of methane. In an era of rapid global warming that threatens glacial loss, ice cap melting and tundra defreezing it is not appropriate to add methane to the mix of greenhouse gases. We are a global

132 pg 2/2

community and we are not exempt from the consequences of deliberate climate damage. I urge the government to rise to the challenge of climate change and endorse, not this project, but project that are sustainable and risk free.

7:

Finally I would like to mention that Santos' share price suggests to me that they are positioning the company to sell off the Narrabri CSG project if it is approved. The company has no commitment to Australia, its environment and the interests of its people. The profits from CSG do not produce an economic benefit for NSW or Australia. Indeed CSG exports from other sites have done nothing but increase the cost of domestic gas and reap havoc on the land.

While I am a resident of the ACT I regard this issue as one of national significance.

May I urge the government to consider the public good and reject Santos' risk-riddled EIS submitted for approval.

I thank you for your consideration of this submission.

Yours sincerely

Christine Degan

44 Irvine Street

WATSON ACT 2602

0524 533 112

133 ✓

**Tom Kristensen**

22 Cullen Lane, Maianbar, New South Wales, Australia  
tomkristensen@bigpond.com

14 May 2017 23:02:40

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Energy policy in Australia is in a shambles, our gas reserves should be set aside till such time as reason can be demonstrated. Gifting profits to multinational corporations is not reason enough.

Environmental policy in NSW is also deficient, the environmental impact of clearing forest and tainting water resources outweighs the benefit of extraction. The economic imperative does not factor in the true cost of plundering our natural resources.

Yours sincerely,

Tom Kristensen

22 Cullen Ln, Maianbar NSW 2230, Australia

134 ✓

**bev Luke-Harris**

130 Boundary Road, Camp Hill, Queensland, Australia  
jopras@bigpond.net.au

15 May 2017 08:24:07

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The reasons are simple - The Great Artesian Basin is the lifeblood of Australian agriculture - any politician giving CSG drilling the go ahead will go down in history as the most despised, selfish, greedy, ignorant human being. Role reverse - if your relative was a farmer and was to be threatened by such a project - yes you'd be jumping at stopping such a dire project. This country is not about you - Australia's needs MUST have priority; we've seen the results of the dirty deeds already perpetrated upon the farming community in Queensland. The Bender family won't recover - but do you care; obviously not.

Shame on you.

Signed,

Yours sincerely,

bev Luke-Harris

130 Boundary Rd, Camp Hill QLD 4152, Australia

135 ✓

**Stuart Anderson**

The Channon, NSW  
stuart@beeinventive.com

14 May 2017 16:30:58

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**The concerns regarding the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I am deeply concerned about this project and believe it should be rejected.

My principle objection is that contamination of aquifers is impossible to rectify. Any initiative that has even a slight risk of polluting such a fundamental resource cannot be allowed.

My second objection is regarding global climate change. The science regarding the disruption to the world's weather systems presents a grim picture, even we stop putting CO2 and Methane into the atmosphere this week, we will still be dealing with enormous disruptions to the weather patterns in the decades to come.

I am a beekeeper and am in contact with beekeepers around the globe. The changes in flowering sequences, indeed of flowering at all has already created great disruption to our industry. This has a huge economic impact on not only beekeepers but for agriculture in general.

Worldwide we need to put all investment into alternatives to fossil fuels including gas.

Please reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Yours sincerely,

Stuart Anderson

The Channon, NSW

136 ✓

**"Andrew" Ian Johnston**

34 Ridge Rd, Kallista, Victoria, Australia  
johndtonian@bigpond.com

14 May 2017 18:09:31

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected...

We are losing the war on Mother Nature;

there are only 1/2 the vertebrate animals on the planet that there were in the 70s, fresh ground water is becoming a scares resource in many parts of the globe, refugee numbers are soaring partly due to global warming -everywhere one looks the natural world, the one we LIVE in is being destroyed one dirty project at a time!

We are well past the time of balance and Mother Nature is starting to paying us back and will accelerate her efforts while we fail to heed her warnings!

Further with regard to the people affected, Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

"Andrew" Ian Johnston

34 Ridge Rd, Kallista VIC 3791, Australia

137 ✓

**Deon Venter**

46 Union Street, Clayfield 4011  
deon@bigpond.net.au

14 May 2017 18:19:19

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Deon Venter



138

✓

**Julie Francis**

Romsey, Vic  
jul\_francis@yahoo.com.au

14 May 2017 18:27:25

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**Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

As a farmer in Victoria I am concerned about the agricultural industries that this project will put at risk. I object to this project and believe it should be rejected because of the salt waste it will create and the damage it can do by drawing down of the Great Artesian Basin.

NSW should ban coal seam gas like Victoria and instead be investing in renewable energy.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Julie Francis

139 ✓

**David Hooke**

5 Coolbunna Close, Golden Square, Victoria, Australia  
newchum20@gmail.com

14 May 2017 16:53:10

---

**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Our agricultural lands and the Pilliga forest are priceless assets. Gas extraction is short term, profits only a few people, and can ruin these assets for all time.

The world needs to get off gas anyway. Renewable energy (properly planned wind, solar and storage) are rapidly becoming cheaper than gas, create more employment and avoid exacerbating climate change. They are our only hope for a habitable planet.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

David Hooke

5 Coolbunna Cl, Golden Square VIC 3555, Australia

140 /

**Donald Recsei**

P.O. Box 1119  
don@actionmandirect.net

08 May 2017 22:46:48

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Deplete invaluable ground water resources
2. Destroy unique vegetation and animals plus denude their habitat
3. Remove artesian water which is required to sustain the indigenous population as it has done for tens of thousands of years
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable. The claimed benefits from Santos are untrue,

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Donald Recsei

P.O. Box 1119

141



**Luke Vassella**

253 High Street, Lismore Heights, New South Wales, Australia  
info@lukevassella.com

09 May 2017 11:46:50

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I wish my address to be kept confidential.

To the best of my knowledge, the unconventional gas industry as it exists in Australia today:

-is unsafe

-involves corruption

-is a climate damaging fossil fuel.

It is a mistake to allow this industry to expand any further.

The unconventional gas industry has sown the wind, they should reap the whirlwind; not the Australian people.

This issue has caused great distress and unrest in my community.

I have written a series of twelve songs relating to unconventional gas mining.

I offer these songs as petitions to my fellow Australians and to the NSW Department of Planning and Environment.

[https://www.youtube.com/playlist?list=PL\\_AJRDmz8qY5vrpqJkusi35xJye09yhm7](https://www.youtube.com/playlist?list=PL_AJRDmz8qY5vrpqJkusi35xJye09yhm7)

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Luke Vassella

253 High St, Lismore Heights NSW 2480, Australia

142

**Brett Taylor**

Gosford, NSW  
brettlee86@hotmail.com

14 May 2017 19:53:05

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

Coal seam gas is damaging to the local and global environments. As a young Australian this is my biggest concern for my lifetime.

My partner from the USA has enlightened me as to the pitfalls of coal seam gas and more broadly the consequences of putting corporations and profits before people.

We need to urgently shift towards renewable energy, even if there is a short term cost because the long term gain is in fact the only viable option.

Yours sincerely,

Brett Taylor

Gosford, NSW

143 pg 1/2 ✓

**Miriam Bauman**

164 Old Bruce Highway, Owanyilla, Qld 4650  
magicalmim@gmail.com

22-May-17 02:14:26

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**Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected because quite simply it is not needed.

1. How does Santos propose to dispose of almost 500,000 tonnes of salt that will be extracted from more than 35 billion litres of salty groundwater in the first five years? That's a huge pile of salt! I propose that it should remain where it currently exists - underground. There are some things that should remain where nature intended and this is one of those.

Stygofauna exist in underground water and there is no doubt in my mind that these subterranean creatures will be affected by the extraction of so much water. This life exists there for a reason and should remain there. Peter Serov, ecologist at Stygoecologia, discovered stygofauna in the Pilliga region. "Peter says there have not been many stygofauna discoveries on the east coast, and stresses there needs to be more scientific research into the animals because they are "enigmatic" and "quite unique in their own right".

<http://www.australiangeographic.com.au/news/2013/08/bizarre-new-species-stops-pilliga-mining>

<http://www.aabio.com.au/stygofauna/>

2. To clear about 1,000 hectares of the Pilliga Forest is simply wrong. We need to protect such places, not destroy them. "Highlights: The Pilliga Forest is the largest remaining native forest on the Australian continent. Nearly half the Pilliga forest is managed by the National Parks and Wildlife Service to protect this unique area including the habitat of declining woodland bird species and a large koala population."

<http://www.nationalparks.nsw.gov.au/visit-a-park/parks/pilliga-nature-reserve>

(The NSW National Park's website sings the praises of the Pilliga Forest and encourages people to visit - ongoing tourism now, but not if it becomes a gas field.)

From June 2011 when the Bibblewindi spill occurred until now, no vegetation has regrown. So what toxic cocktail did that water contain?

And I am concerned about future spills poisoning vegetation. There have been more and there will be more, of that I have no doubt. <http://www.paulrobertburton.com/2016/03/pilliga-state-forest-the-story-of-the-bibblewindi-spill/>

3. Drilling through a recharge aquifer of the Great Artesian Basin and to draw water down from a resource relied upon by rural communities across western NSW is just wrong.

Water is Life - we can live without gas but it's impossible to live without food and water.

Our farmers in particular rely on groundwater and what happens when their bores drop or go dry? Will Santos be responsible and compensate farmers or will farmers have to prove, at huge expense, that Santos's actions were the cause. Not much income if a farmer has no water.

143 pg 2/2

George Bender, farmer near Chinchilla, took his own life after 10 years of

bullying by gas companies - his bores had gone dry. There is enough stress already on food producers without the added worries about water and quite frankly I don't want anymore gas related suicides.

Our farmers deserve the greatest respect because if you ate today then you have to thank a farmer.

4. Do we really need excess methane emissions from venting and leakage adding to climate change.?

So recently when NSW officials visited the Queensland gas fields why did the gas companies stop flaring? Friends who live nearby had no bright night skies but after officials left the orange skies returned! And yes eventually all wells will leak as materials break down.

5. Siding Spring Observatory, near Coonabarabran, is Australia's foremost optical and infrared astronomical observatory. Light pollution from flaring just a few wells of the proposed 850 wells will ruin the dark night sky needed by this internationally renowned Observatory.

Astro tours are now in the Top 10 after dark experiences globally so there is huge potential for tourism here but not if this project goes ahead.

The interest in Astronomy will go on for lifetimes whereas the interest in gas will be short lived but the damage will last for lifetimes.

6. The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people. Our Indigenous people have cared for this land for 50,000 years and obviously they have their sacred sites - are you going to allow Santos to destroy the Pilliga forest in just a few short years? Some places simply need to be protected for future generations.

7. The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

And as for the latest 'gas shortage' perhaps Santos should tell the truth. "BHP has already admitted there's enough gas in Bass Strait to supply the east coast "indefinitely". <http://www.smh.com.au/comment/phoney-energy-crisis-merely-a-ploy-to-access-offlimits-gas-20170315-guz8pb.html>

8. NSW and the rest of Australia need to invest in more reliable and ultimately cheaper renewable energy. Santos will only inflict more environmental, social and economic harm. As other CSG companies have learned in NSW - there is no social licence to operate.

It will cause economic upheaval in Narrabri (as it has in Chinchilla) and put agricultural industries at risk. No one deserves to live in a gas field - it's just wrong. Short term gain for long term pain.

9. Coal seam gas is harmful to health. Doctors for the Environment and NSW Nurses are concerned about the effects to health from CSG. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States. I could introduce to many sick people living near Tara and Chinchilla in Queensland.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Water is Life. You can live without gas but you CANNOT live without food and water.

Yours sincerely,

Miriam Bauman

164 Old Bruce Highway, Owanyilla, Qld 4650

144



**John Bartley**

2 Hibiscus Way, Scotts Head, New South Wales, Australia  
famousjohnny56@gmail.com

15 May 2017 07:02:01

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Leave good where it is.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

John Bartley

2 Hibiscus Way, Scotts Head NSW 2447, Australia



145



**Jason John**

768 Hydes Creek Road, Valery, New South Wales, Australia

jason@ecofaith.org

14 May 2017 15:58:09

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**Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Dept of Planning and Environment

GPO Box 39 Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

This project must be rejected,

We are in a climate change crisis, and further expansion of the fossil fuel industry must not proceed.

With rapid expansion in the potential of other technologies, including recent advanced by CSIRO in hydrogen fuels, it is time to expand our jobs base on renewable technologies.

Signed,

Yours sincerely,

Jason John

768 Hydes Creek Rd, Valery NSW 2454, Australia

Carole Helman

523 Roses Road, Gleniffer, New South Wales, Australia  
carolehelman@gmail.com

14 May 2017 16:01:46

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

As an ecologist of many years professional experience, I understand the close interaction between land, water, and vegetation, and am deeply concerned about Santos' proposal for coal seam gas mining in north west NSW.

I have visited the vast gas fields in southern Queensland around Tara Chinchilla area, and seen the destructive effects of CSG mining there. Farmland has been turned into an industrial wasteland, communities destroyed and land values drastically reduced, while rental affordability went through the roof.

Contamination of aquifers, and pollution affecting livestock and humans have been a hallmark of the CSG industry in the USA and in Australia. For many reasons it is an inherently unsafe industry, and should be stopped in Australia before any further damage occurs, particularly pollution of our important aquifers.

I urge the Government to reject this and all CSG proposals, and instead focus on renewable energy.

Signed,

Yours sincerely,

Carole Helman

523 Roses Rd, Gleniffer NSW 2454, Australia

147 ✓

**Greg Roberts**

5 Florence Terrace, Scotland Island, New South Wales, Australia  
greg.b.roberts@gmail.com

14 May 2017 17:51:21

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object most strongly to this project. It must be rejected.

Our enormous responsibility for NOW and the FUTURE is to be a top producer of food.

It is NOT to give permission to any mining company that wishes to dig up arable and pastoral land and destroy its ability to produce food.

That is a highly irresponsible action and is environmentally, economically and socially stupid!

We, which includes you, as the Government, must think well ahead - 100 and more years - to look after future generations.

The mining companies will come back with their EIS's and say that the land and water won't be affected.

The truth is - they wouldn't know.!

We, and you, must absolutely protect THE ONLY LAND WE WILL EVER HAVE!

The Precautionary Principle must be applied!

Mining companies have NO idea on how to responsibly dispose of the, what I understand, the 35 billion litres of salt laden groundwater ( 500,000 tonnes of salt waste).

They would clear fell close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.

Drill through a recharge aquifer of the Great Anesthesia Basin and draw water down from a water resource relied upon by rural communities across western NSW.

Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

It is sheer bloody madness to allow this attack on our precious land resources.

It would be an act of gross irresponsibility by the NSW Government if this CSG mining was allowed to happen - and any other similar request, for that matter.

NSW should instead promote renewable energy initiatives.

As I understand, it will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

The NSW Government must sensibly and responsibly reject this project and make this precious land of ours off-limits to gas mining.

Yours sincerely,

Greg Roberts

148



**Catherine Dosba-Thomson**

Potessu Road, Georgica, New South Wales, Australia  
dosba@jiggi.net

14 May 2017 16:08:58

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I am sending a submission regarding the Narrabri Gas Project

I would like to state that I object to this project on a number of grounds that relate to the damage that it would do environmentally. Firstly, I object due to the impact that it would have on the groundwater systems. Secondly, I am opposed to clearing sections of the Pillage Forest. Thirdly, I have followed the debate on whether CSG produces more or less emissions than coal and I believe that if the true costs or the full costs (including those of extraction and transport) were considered in

the equation then LNG would not look so environmentally friendly.

I hope that my voice can be heard.

Yours sincerely,

Catherine Dosba-Thomson

8 Potessu Rd, Georgica, NSW 2480

Australia

149 ✓

**Michael Hunt**

365 Wooyung Rd, Wooyung, New South Wales, Australia  
michaelhunt.k@gmail.com

14 May 2017 17:39:00

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

My son worked for Santos in the Roma gasfield for 3 years. He reported that the company is highly immoral, and frequently attempts to cover up the pollution caused by their activities. They have caused significant damage to groundwater, artesian water and farmland, and have routinely denied responsibility. They also employ as many foreign labourers as possible because they are more easily exploited, and they pay no tax.

The looming gas shortage in eastern Australia is caused by the business practices of Santos et al. The resources should be owned by the state or the nation, and exploited for the benefit of Australians, not shadowy corporations.

Keep the resource in the ground because it cannot currently be exploited for our benefit. The short term gains are not worth the long term risk to farmland, water, and communities.

Signed, Michael Hunt

Yours sincerely,

Michael Hunt

365 Wooyung Rd, Wooyung NSW 2483, Australia

150



Phil Bradley

15 Cliff Ave, Winston Hills, New South Wales, Australia

phil\_bradley@bigpond.com

21-May-17 23:57:19

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**I Oppose the Narrabri Gas Project and ask that it be Rejected**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Result in inadequately monitored fugitive emissions of methane, which is about 100 times more damaging as a greenhouse gas than CO2 over our next critical decade to take serious action against global warming. As little as 3% methane leakage near the fracking site, in transportation and usage, would make CSG more climate damaging than coal as an energy source. Some unconventional gas extraction sites in USA have already been calculated to have caused fugitive emissions as high as 17%! The risk of greatly increasing Australia's greenhouse gas impact is totally unacceptable given our global climate emergency and Australia's worst in the OECD CO2 equivalent emissions per capita!!

<https://www.theguardian.com/environment/2016/oct/26/australia-coal-seam-gas-emissions-may-be-vastly-underestimated-report>

2. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.

3. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.

4. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

5. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Phil Bradley

15 Cliff Ave, Winston Hills NSW 2153, Australia

151 pg 1/3

Jen Barrett

155 Robert Street, Toronto, Ontario, Canada, M5S 2K6  
jenmegbarrett@gmail.com

21-May-17 23:21:33

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected. As a former Narrabri resident, I believe the detrimental environmental impacts of this project on Australia's prime agricultural land will do irreversible damage to Australia's long-term economic prosperity and security.

I completed a Bachelor of Economics and Social Sciences at the University of Sydney and have worked for a Big 4 accounting firm for the past nine years. In the professional services sector, I'm witnessing a significant shift in focus away from the mining sector and towards the agribusiness sector, as it appears to me the potential for economic growth and sustainable prosperity for all Australians lies within our potential to be the agricultural powerhouse in the Asia-Pacific region and the "food bowl" for both China and Indonesia. The damage CSG could cause to our prime agricultural land puts this all at risk.

Many recent studies have investigated this. I've outlined a few of these below, pulling out a few key points.

Powering growth: Realising the potential of AgTech for Australia. A report by KPMG, The Commonwealth bank, The Queensland Government and StartupAUS

<https://home.kpmg.com/content/dam/kpmg/au/pdf/2016/powering-growth-realising-potential-agtech-australia.pdf>

- Australia is a major food exporter, with more than half of what we produce being sold to customers overseas.
- As populations in Asia and Africa become wealthier, demand will continue to surge for the kinds of high quality agricultural goods we produce
- With global food production needing to increase 70% by the year 2050, agriculture is predicted to become Australia's next \$100bn industry by 2030.
- By 2050, the earth's population is projected to reach 9 billion.

It is expected that 85% of this production increase will be driven by increased yields and cropping intensity, highlighting the critical role of agricultural technologies. The NFF predicts the value of Australia's agriculture sector will almost double in the next 15 years, creating Australia's next \$100 billion industry.

- An increase in population, combined with the rapid growth of a vastly increased global middle class, will lead to increased demand for a rich diet with more calories, protein, processed food and customised products.
- Climate change is likely to have a negative impact on agricultural yield, particularly in droughtprone regions.
- Customers are increasingly demanding locally grown, sustainable food.
- 38% of Australian farmers report water issues

151 pg 213

- 46% report soil and land issues

Where are the growth opportunities in Australian Agriculture. A report by Deloitte Australia

<https://www2.deloitte.com/au/en/pages/consumer-business/articles/where-are-growth-opportunities-australian-agriculture.html>

- Agribusiness was nominated by Deloitte in Building the Lucky Country: Positioning for Prosperity (BTLC#3) as one of the 'fantastic five' industry sectors which has the potential to take over from mining as key drivers of growth opportunities for the Australian economy over time. Of all the sectors in the Australian economy, agribusiness was the sector with the strongest combination of playing most to Australia's competitive advantages and being a sector producing what the world increasingly wants.

The Global Soft Commodity Opportunity for Australia and New Zealand. A report by ANX

<http://www.anzbusiness.com/content/dam/anz-superregional/AgricultureInsightsGreenerPastures.pdf>

- Little or no new land and water is coming into production, and some is being withdrawn, with supply unbalanced across the world. Improvements in productivity can boost production but recent trends suggest this alone may not be enough to fill the gap.
- Demand for many agricultural products has already begun to outstrip supply resulting in periods of high global food prices in recent years. This is in contrast to the experience of the 20th century where commodity surpluses dominated global trade discussions.
- The relative scarcity of agricultural land and water in major growth markets, particularly in Asia
- Expectation that global food prices will remain high over the coming years, increased revenue per unit of production should be achievable.

Agriculture could be the next boom for Australia, The Conversation

<http://theconversation.com/agriculture-could-be-the-next-boom-for-australia-40560>

- Chinese economic growth is slowing and so is its hitherto astonishing rate of infrastructure and building development.
- The World Steel Association recently predicted little growth for steel demand globally in the next two years. The Chinese steel industry is also expected to maintain its production capacity at about 800 million tonnes annually due to its declining domestic consumption and pressure from the environmental protection.
- Australia's thermal coal exports have suffered a similar fate as China tightens rules on air pollution and plans to cut coal consumption by 80 million tonnes by 2017.
- However, China has substantially increased its imports of Australian food produce. In 2012-13, China was the second largest export destination for Australian food, accounting for 10% of the total Australian food export by value and trebling it from 2002-03.
- With the rise of Chinese middle class (a group estimated to number around 250 million), the demand for high quality and value-added Australian food, such as red meats, infant formula milk, seafood, wine, dairy products is and will be strong in the future. It is estimated that China has become the largest export destination of Australian food since 2014.
- With its strong demand for Australian food and over \$US3 trillion in foreign currency reserve, China is an important potential source of investment to the Australian agriculture.
- Chinese investors are more prudent now after witnessing the heavy loss of their peers' investment in the Australian mining industry. Our research shows (Huang, 2015 DOI: 10.1002/tie) that Chinese investment in the Australian mining industry has incurred heavy losses so far, including CITIC Pacific Mining, Ansteel, and Yancoal.



151 pg 3/3

- Australia's emerging agriculture boom can last much longer than the now waning mining boom, as it is underpinned by the demand from the world's second largest and most populated economy.

Why would we put this all at risk for such limited and short-term economic gains? This project, if approved, would put this all at risk. as per the below:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Jen Barrett

155 Robert Street, Toronto, Ontario, Canada, M5S 2K6

152 ✓

**Adam Guise**

10 Peate Street, North Lismore, New South Wales, Australia  
adamguise@gmail.com

14 May 2017 17:54:20

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**REJECT the narrabri coal seam gas project**

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This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

- > destroy our groundwater by extracting it and polluting it with chemicals
- > clear thousands of acres of the pilliga forest
- > allow toxic coal seam gas which is a dirty fossil fuel and drives catastrophic climate change

Please reject it in order to protect our land, water and climate.

Yours sincerely,

Adam Guise

10 Peate St, North Lismore NSW 2480, Australia

153 /

**Deborah Howroyd**

2 Arnheim Street, Goulburn, New South Wales, Australia  
debbie.howroyd@hotmail.com

14 May 2017 22:46:12

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

This project should be rejected because of many issues.

There is the salt water byproduct, the destruction to the Pilliga State Forest,

the risk of contamination to the Great Artesian Basin and

the release of methane gas. Also there is

the damage to the local Aboriginal peoples' ties to their land.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Deborah Howroyd

2 Arnheim St, Goulburn NSW 2580, Australia

154 ✓

Attn: Executive Director, Resource Assessments  
Department of Planning and Environment  
GPO Box 39  
Sydney NSW 2001

**This is a submission to the Narrabri Gas Project EIS.**

I object to this project and believe it should be rejected.

It's appalling that this project is even being considered. If it goes ahead, it will clearly be a case of one company making a huge short term profit and leaving a trail of destruction and desecration in its wake.

It will have multiple significant impacts to the environment, resulting from: reduction of forested area and discharge of methane, both actions significant contributors to global warming; removal of water from an aquifer essential to Western NSW rural communities; dumping of an estimated peak 115 tonnes of salt per day into landfill; installation of wells as close to 200m from Lake Yarrie; PM2.5 air pollution; fragmentation and degradation of habitat for endangered and endemic fauna species.

The social and economic impacts for the affected communities are likely to include: health risks from water contamination and air pollution; loss of cultural heritage to local Gomeroi / Gamilaraay people; loss of clear observations from the Siding Spring Observatory due to light pollution; increased cost of living.

Every one of these aspects is highly significant and enough cannot be said about them. In addition, Santos' impact assessments are skewed, outdated and not thorough enough for the immensity of this project.

The Pilliga forest is a precious and irreplaceable natural resource, both culturally and aesthetically. Coal seam gas is an outdated industry with high and far-reaching environmental and social impacts that far outweigh the gains.

Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,



Mariko McConnell  
18 Bundarra St  
Nambour 4560

0431 061 850

marikomcconnell@gmail.com

155 ✓

Carolyn Kinninburgh

4 Anakie Drive, Cornubia, Queensland, Australia  
c\_kinniburgh@optusnet.com.au

14 May 2017 15:35:01

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Billion of litres of salt laden groundwater, generating tonnes of salt waste, for which there is no safe disposal plan. A1,000 hectares of the Pilliga Forest damaged, woodland that are home to unique wildlife, damage to aquifer of the Great Artesian Basin and destroy the water resource relied upon by rural communities across western NSW, this is not on.

Coal seam gas mining threatens our agriculture, precious water reserves, wildlife and the fabric of rural communities across our entire region, as well as venting large emissions of methane from and leakage, adding to climate change.

The project will cause trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW Government should invest in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

The potential to put agricultural industries at risk in Narrabri, as well as causing pollution that will put at risk the operation of Siding Spring Observatory, this project is just a disaster waiting to happen.

Coal seam gas is harmful to health. Both the NSW Government and Santos should be ashamed at putting the inhabitants of the Narrabri district in jeopardy. It has been shown in other countries that the health risks and land damage is far higher, and costs the country far more than the benefits from an ill thought out plan to rape the land for profit.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Carolyn Kinninburgh

4 Anakie Dr, Cornubia QLD 4130, Australia

156 pg 1/2 ✓

**Sam Donaldson**

1676 Willala Road, Willala, New South Wales, Australia  
samdonaldsonn@gmail.com

21-May-17 23:17:02

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I am the daughter of 6 generations who have been farmers and graziers in my family property for over 130 years. CSG was first introduced to me when I was finishing primary school when the gas pipeline was proposed to pass through my uncle's (neighbouring) property. In the following years the gas project was being developed. As a 14 year old I was more informed on this issue than most children my age. I along with various members of my extended family have actively protested these developments which are occurring less than 10km from my childhood home. For years my father and uncle have voiced their opposition to this project. At 20 years of age, as an educated young woman whose family history and livelihood can and will be impacted by the proposed project, I believe my voice – the voice of the next generation – should be heard too. My opinion is informed by my rural upbringing, my connection to our land and wide reading and analysis of information/news published about this project over the past 8 years or so.

For the following reasons I oppose the project:

1. I do not believe the EIS is reliable science. As a (veterinary) science student I am aware of the scientific method. For the study to be undertaken and compiled by Santos is poor science as it carries extraordinary BIAS. Even an 'independent' investigation agency contracted would be insufficient to rule out bias as they are employed under the interest of the gas company. This paper, no matter how long and 'comprehensive', has been developed by the company whose intention is to proceed with the project. Therefore, their objective in designing and presenting this study is to 'prove' or providing findings that demonstrate that it is safe to proceed. This is poor science. An independent panel is not sufficient for analysing the integrity of the report. An independent study conducted by an impartial party should be conducted and the findings compared. If I could trust the science and its findings, this project would not concern me anywhere near as much. However, I do not have confidence that our government and industry bodies are capable of such.
2. Without solid, unbiased science I cannot be assured that our WATER is safe. Yes, Santos clearly describes they are drilling through the aquifers and Great Artesian Basin to coal seam deep underground. But you are passing through the aquifers. Accidents happen. Structures are sometimes imperfect irrespective of how thick the concrete and metal reinforcements are. It only takes one leak to contaminate water sources. We rely on deep bores in our property, without them our beef enterprise would become unviable.
3. I believe the EIS needs to take its health impacts more seriously. Abnormal illness in gas areas in QLD and the USA have been recorded. There are PEER-REVIEWED articles on this health research emerging from the US – this is higher order scientific research compared to anything produced in Australia on the issue. If pursued on QLD cases I'm sure some correlations could be found. Again, I think good science is being neglected. As the voice of the next generation I do not want to live or potentially raise a family in a region that could potentially harm our health.

4. Whilst the Pilliga is not deemed an 'invaluable' source of agricultural land, it is an area of great biodiversity and aboriginal heritage. However, our land bordering the eastern edge of the Pilliga is quite productive agricultural land. Whilst it is not the Liverpool plains, it feeds many Australian mouths (and mouths around the world) every day. I am also concerned that this project is simply a platform from which Santos seeks to extend into prime agricultural land. There are few regions in Australia as productive as those in NW NSW. It would be a crime against humanity to potentially destroy it. The human body cannot sustain itself from eating coal and drinking gas.

5. For years my father has worked with the Namoi CMA and other industry bodies to counteract soil salinity in our region. This is ongoing and has taken many years to improve. To pump salty water to the surface has a very large potential to undo this. Whilst Santos outlines a detailed desalination plan and a complex network of evaporating ponds, I do not trust their word. Their toxic spill a few years ago is an example of what could occur if this waste water is insufficiently handled.

6. This summer was one of the hottest I can remember. Weeks on end exceeding 35 degrees. On February 12 2017, Boggabri recorded temperatures exceeding 50 degrees and many locals battled fires on opposite side of town. There was a total fire ban in place for many weeks, yet Santos was still permitted to have naked flares on their wells in the scrub. I appreciate that these wells cannot be capped, and they will always leak some gas. It is also my understanding that gas in contact with a spark has the potential to cause a great explosion. Bushfires are common through the Pilliga. The last big one within the gasfield region (and near us) was in 2006 when I was 9 years old. I clearly remember the roar of the fire from the house, some 8-10km from the fire front. It is scary. These fires are unpredictable, hot and they are fast. That fire burnt about 16,000 ha within 3 hours. To have workers in the scrub in fire conditions is unthinkable. There is no way of escaping it. No firebreak, especially not a 100m radius one, will protect the wells. I would hate to think of the damage caused by a bushfire passing through a gas field. We're probably due for another big fire soon and it was a blessing it didn't happen last February.

7. Santos claims that the project will employ 1200 people during the construction phase and 200 people throughout the lifetime of the project. After observing the development of the mines over my childhood I ask the question - how many of these will be local jobs? Apart from buying their way into local communities, are they going to benefit us by providing new jobs to locals or will they be flown in as many are for the coal mines.

Whilst I appreciate that the combustion of methane gas extracted from the coal seam is a "cleaner" form of energy, I encourage you to consider: Is it really a cleaner energy? If it has the potential to contaminate water, cause salinity issues, leak gas into the atmosphere (the same terrible gas cows regurgitate), create biodiversity wastelands, impact health, destroy farming communities and divide towns – is it a clean energy? Is it renewable? No. It takes millions of years of biological processes to create the gas in the coal seam. This gas is no more sustainable than coal. The government is merely tapping into this resource to fill their pockets.

For me, the way our governments approach CSG and the mining sector causes me to despair for corruption in the political sector and for the generations who will have to deal with today's mistakes. This is one of the many facets of our government that frustrates me. As the voice of the next generation, I have little faith in the major parties and I do not believe they represent an Australia for tomorrow.

For us, the voices of the next rural generation, I deliver this submission to tell you that this project has no place in my district. The large volumes of submissions should speak for themselves. We do not want the Narrabri gas project to go ahead, or any further CSG projects.

Yours sincerely,

Sam Donaldson

Braemar, 1676 Willala Rd, Willala NSW 2382, Australia

157 ✓

Mark Singer

71/181 Clarence Street, Sydney, New South Wales, Australia  
marksinger8@gmail.com

14 May 2017 17:07:06

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Submission to the Narrabri Gas Project EIS.

I object to this gas project and believe it should be rejected.

The consequences of this rapacious short-term industrialisation of 1,000 ha of the remaining Pilliga forest is little understood. The proposal will generate over 35 Billion litres of salt water without a safe disposal plan, risk the loss of a major recharge aquifer of the Great Artesian Basin with severe long-term consequences for farmers, and generate unknown quantities of methane as fugitive emissions as a highly active greenhouse gas, increasing climate change.

Additionally, the gas proposal will lead to the loss of culture of the Gamilaraay people

The likely economic impacts of the Santos proposal are that gas price rises flowing from this proposal will further destabilise the national energy grid as Santos seeks to profit from gas exports. The well-known antipathy of Santos (and other miners) to paying tax on gas production and export means economic loss to the community and resource loss to the nation.

If the Santos proposal proceeds, the resulting short-term boom and bust outcomes will have negative impacts on local towns and economies as seen in Western Australia and elsewhere.

As a nation we need to take note of the impacts of gas extraction experienced in communities elsewhere - the serious health affects in regional communities from fugitive emissions, social disruption, ecological destruction, and the irreversible risks to the Great Artesian Basin recharge.

Please reject the short-life Santos proposal to avoid long-term damage to the Artesian Basin, to local communities and the Pilliga forest, and avoid wider economic disruption and levels of greenhouse gases released as fugitive emission that endanger our world.

Signed,

Yours sincerely,

Mark Singer

71/181 Clarence St, Sydney NSW 2000, Australia



158 ✓

**Cheryl Sharma**

155A Bransgrove Road, Panania, New South Wales, Australia  
cheryl.sharma@optusnet.com.au

14 May 2017 15:34:37

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**Narrabri Gas Project must be rejected**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is my submission to the Narrabri Gas Project EIS.

I strongly object to this project and believe it should be rejected for the following reasons:

**\*\* coal seam gas mining is harmful to the environment and the people who live within its vicinity. This has been demonstrated many times both here and in America. Where is the priority for the health of the local people? Coal seam gas affects the respiratory system especially in the case of children. How could you approve a mine like this knowing the health of the local Narrabri community will be affected?**

**\*\* much of the local Pilliga Forest will be decimated. The largest temperate woodland in NSW which provides homes to our unique flora and fauna, once gone can never be replenished in our lifetime. Again, I have to ask how could anyone give the permission for this woodland to be destroyed only for profit? The health of our environment relies on these pristine bushlands, just ask any beekeeper. I believe forests such as these are there for all Australians to enjoy not a mining company to come through and destroy because it is in their way.**

**\*\* the amount of water which is needed to be extracted to allow the mining to be maintained is extreme. Where does this water come from and why should local farmers have to compete with this?**

**\*\* it will be very difficult for the local farmers to sustain their food and fibre production when the air and water becomes polluted. We all rely on these farmers for their produce and expect this to be clean and fresh. How will this be achieved?**

**\*\* the local Gamilaraay people hold the spiritual and cultural beliefs in the region. This will have an enormous effect on their psyche. Once again their cultural identity will be jeopardised all for profit!**

I finish by reminding you of the agreements made in Paris last year to keep fossil fuels in the ground. More commitment must go towards the furthering of renewable energy and keeping fossil fuels in the ground where they belong.

Yours sincerely,

Cheryl Sharma

155A Bransgrove Rd, Panania NSW 2213, Australia

159 ✓

**Dr Janelle Trees**

Yulara NT  
janelle.trees@gmail.com

**14 May 2017 21:27:04**

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**Reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I live in the Central Australian desert, where we depend on the Great Artesian Bore to live -- so do all the trees and plants and the other animals that depend on them. The purity of the bore is essential to life on our continent. This project depletes and risks polluting the Bore. We do not know how the GAB can be regenerated, but it is not regenerated by rain water. Drilling into the GAB to produce a fossil fuel which aggravates global warming is an action of stupidity in the pursuit of futility.

We need to be developing and sustaining renewable, safe energy sources.

This project will also exacerbate the poisoning of our soils by salt. Our soil is fragile and precious. This project will aggravate the problem we already have by producing up to half a million tonnes of salt waste.

You are at a point where you are able to speak up for intelligent use of our resources. First, do no harm.

Signed,

Yours sincerely,

Dr Janelle Trees

Yulara NT



peta stamell

Carthage Street, East Tamworth, New South Wales, Australia  
petastamell@hotmail.com

21-May-17 22:33:57

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**I want our government to take environmental protection seriously.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

Re: Narrabri Gas Project EIS.

This project should not go ahead as the environmental and agronomic risks are too high and the potential benefits too uncertain and too low.

The risks of water and land contamination are far too likely. Even if all safety measures work (and I doubt it), the disposal plans for the treated waste products are not satisfactory.

Disincentives for producers of CSG to cause environmental harm are ridiculously low. We can't rely on the good will of corporations to keep our waterways clean. If it's cheaper to contaminate our water ways then protect them, they'll choose to contaminate them through inadequate safety precautions and preventable mistakes.

Should this project go ahead, local towns will see catastrophic economic disruptions. Rents will rise, property prices will rise, local services will become geared to a transient worker population who have no interest in the sustainability of their temporary residence. When the workers leave, the towns will be gutted.

This project will not provide meaningful employment to local workers. Experts from Queensland will be hired to fulfill skilled positions leaving no room for local skills development.

I really don't understand why we aren't investing our money into renewable energy development. It's the obviously superior course of action. We're Australian's, 10 years ago we were leading this FUTURE PROOF industry. What the hell happened?

This government's commitment to climate denialist policy is really starting to make me mad. It was funny at first but now that I see Tony Abbot's crazy ideas becoming actionable policy, i'm mad.

Gas mining - Find a better solution.

Yours sincerely, a living, breathing human who needs a livable planet to call home - Peta Stamell

Carthage St, East Tamworth NSW 2340, Australia

161

Alan Hill

396 Arakoon Rd, Arakoon, New South Wales, Australia  
hillyuille@bigpond.com

14 May 2017 16:59:47

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Recently I flew over the Pilliga area and was appalled to see the devastation created simply by this company's exploration drilling.

To approve a project which:

1. Could clear almost 1000ha of the Pilliga Forest
2. Extract over 35 billion litres of water and in so doing produce 500,000 tonnes of salt;
3. Open-up new sources of fossil fuel and its attendant green house gasses;
4. Drill through and potentially irrevocably destroy important aquifers;
5. Threaten viable existing agricultural production and communities which depend on agriculture.

Would be completely irrational, irresponsible and negligent.

As a NSW resident and voter I DO NOT want this proposal approved.

- I DO WANT this government to stop destroying our natural environment by passing legislation which has the potential to accelerate land clearing.
- I DO WANT this government to better support the renewable energy sector and help us quickly transition to a carbon neutral economy.
- I DO WANT the department of Planning and Environment and the NSW Coalition Government to LISTEN to the people of NSW instead of forcing environmentally and socially destructive legislation and projects through our bureaucracies and Parliament.

Signed,

Yours sincerely,

Alan Hill

396 Arakoon Rd, Arakoon NSW 2431, Australia

162



**Graeme and Joyce Douglas**

Mil-Lel Drive, Mil-Lel, South Australia, Australia  
joyce1949@bigpond.com

15 May 2017 14:22:14

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

We object to this project and believe it should be rejected.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan. Holding ponds that used at other mining sights are not the solution, as they leak and or are flooded (as seen with cyclone Debbie), allowing contamination over large areas of land, making it unsuitable to farm and the water unsuitable to drink both for Humans and live stock and native fauna and flora.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to more pollution.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people. Once again the Aboriginal community must suffer at the hands of those who only think what they can extract from the land and not how to preserve the land for future generations.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable. Most of the gas that is mined in Australia goes overseas, so saying that se Australia is short of gas, that is why Australia has short supply of electricity and having black outs. This is only and excuse, to scare monger government into allowing more mining to proceed.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Look around the world where CSG has been allowed, and now these countries are banning it because of the disaster and devastation to their land caused by CSG.

Signed,

Yours sincerely,

Graeme and Joyce Douglas

Mil-Lel Dr, Mil-Lel SA 5291, Australia

163



**Dereka Ogden**

1-6 Yeramba Place, Tugun, Queensland, Australia  
artdereka@gmail.com

15 May 2017 15:12:59

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected. I lived in the Pilliga Forest for 10 years and I would not want the area destroyed by Coal Seam Gas mining.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. I am particularly worried about the water in our aquifers, once it's gone, it's gone forever as far as humans are concerned.
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change. This has been proven and should surely be a reason to stop this madness..

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Dereka Ogden

1/6 Yeramba Pl, Tugun QLD 4224, Australia

164 pg 1/2 ✓

**Susan Stock**

2 Upper Tunttable Falls Road, Nimbin 2480  
susana.stock@gmail.com

15 May 2017 15:28:22

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I write to express my strong objection of this project on the basis that it is economically flawed, environmentally destructive, and harmful to human health. It pays no respect to the traditional owners of the land. Moreover, it is a project which will generate enormous social conflict, both from those opposed to its development, and within the Narrabri region.

This project should be rejected on the grounds that it is a high-risk, short-term project with long-term negative environmental and economic consequences which are unacceptable.

1. The project plans to extract over 35 billion litres of salt laden groundwater and generate almost 500,000 tonnes of salt waste. There is no safe disposal plan for this waste. There is no adequate plan to remediate the site from the start and continuously during the mining. So we tax payers and future generations will pay the cost of this.

2. The project plans to clear over 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales. The Pilliga forest is critical habitat to a number of threatened species, and core habitat for the Koala, an iconic species which is threatened in NSW.

3. The project plans to drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.

4. The project will emit methane from venting and leakage, a potent greenhouse gas (thirty times worse than CO<sub>2</sub>) which will accelerate Climate Change and compromise Australia's climate targets of keeping below 1.5 degrees or even two degrees C. We have no more time to act on this. We have a responsibility to future generations to act responsibly on climate change not continue to act as though there is no foreseeable problem. It is not sustainable.

The area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people, and contains important sites.

Importantly, the project presents the high likelihood of conflicts of land use in the Narrabri district, and puts agricultural industries at risk. Light pollution jeopardises the integrity of the Dark Sky Reserve needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is proven to be harmful to human healths. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States, and the ongoing health effects inflicted on the people of southern Queensland, where Coal Seam Gas has poisoned water and rendered real estate worthless.

164 pg 2/2

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining. It provides no benefit to the ordinary taxpayer and presumably most will be exported and little tax will be paid.

Signed,

Susan E. Stock

Grad Dip Urban and Regional Planning, UNE





**Tess Deyl**

Fish Creek, Victoria  
voiceintheether@gmail.com

15 May 2017 16:02:34

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**Narrabri Gas Project should be rejected!**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. extract over 35 billion litres of salt laden groundwater. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in NSW, home to unique wildlife.
3. drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW.
4. add to climate change.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Tess Deyl

Fish Creek, Victoria

166 pg 1/2



Diane O'Mara

2 Little Belmore Street, Gulgong, New South Wales, Australia  
diomara04@yahoo.com.au

18 May 2017 06:57:19

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan. With salinity already a major problem in Australia's rivers and landscapes I find this lack of planning intolerable.

Abut fifteen years ago I saw how an exploratory gas well in the Pilliga had polluted the landscape with salt after an overflow of the holding dam. There was this huge swathe of dead trees, grass trees and all vegetation for 50 metres across. I had no idea how far this damage occurred, but it was well over a kilometre. I shudder to think how landscapes would be following a huge overflow.

2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife. Healthy rivers, clean air and a healthy biodiversity are essential for healthy communities and food production. It is time this was recognised.

3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. Artesian water, or dinosaur water is non-renewable. We are tampering with our future food production and water supplies by misusing this resource.

4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change. We are already seeing the effects of climate change. Global warming is melting the Permafrost in the Arctic regions, releasing methane that was locked up for millions of years. Also the Pacific Ocean has reached saturation point for absorbing carbon, and is now too releasing carbon into the atmosphere. We are in deep trouble. We must as a matter of urgency take action to stop climate change.

5. The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people. Our attitude to our shared cultural heritage diminishes us as a nation and also defines us.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory. How much will this cost the Australian economy if the Siding Springs Observatory has to close because of light pollution?

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

166 pg 2/2

Signed,

Yours sincerely,

Diane O'Mara

2 Little Belmore St, Gulgong NSW 2852, Australia

167



**Jill Smith**

28 Timor Road, Coonabarabran, New South Wales, Australia  
jillesmithis@gmail.com

18 May 2017 06:50:59

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**Please reject the Narrabri Gas Project and Protect our Water**

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Attention

Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I wholeheartedly object to this project, it should be completely rejected because;

1. Our groundwater is far too precious to risk. And to drill through a recharge of our Great artesian Basin is from every aspect a bad idea and should not be done.

2. Our Pilliga Forest, the largest temperate woodland in NSW is a beautiful quiet place, home to many native species, and to clear nearly 1,000 hectares would fracture and change this forest incomparably.

3. Dark Skies are Vital for Siding Springs Observatory

This on its own is enough reason not to go ahead with this project!

4. CSG is harmful to health.

Look at what has happened /is happening in the US.

Just the stress and worry for locals, especially farmers, will impact on their health.,

5. Instead we should be focusing on renewable energy.

6 Points to ponder.....

Are you prepared for how incredibly costly and difficult the clean up and rehab will be? ( and do you have any idea how long it will take), if the final owners of the project default and go bankrupt? ( this often happens )

Save yourself and us from this impending nightmare.

Urge the government to reject this project.

Protect our Great Artesian Recharge by declaring it completely safe from gas mining.

Yours sincerely,

Jill Smith

28 Timor Rd, Coonabarabran NSW 2357, Australia

168 pg 1/2 ✓

Gregory Hall

330 Glenwarrin Road, Elands, New South Wales, Australia  
greghall@brushbox.info

21 May 2017 18:21:54

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**The exploratory phase of the Narrabri Gas Project has already caused irreversible harm, and approval will exacerbate that damage.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

I have personal experience of the Pilliga forests, having lived nearby, worked and camped extensively in the area.

Ecological Values Degraded.

During the several decades, I have observed substantial degradation of the natural environment due to the 'exploratory' work already conducted. This work has caused disturbance and fragmentation to the natural environment, the continuous discharge of waters into the ephemeral Bibblewindi Creek has enabled the spread of weeds along the edges of the watercourse, and into the surrounding forests. These effects will irreversibly degrade the environmental qualities of the Pilliga.

Methane Leakage Not Quantified.

In spite of the long period of exploration, no comprehensive survey of the background levels of Methane leakage have been conducted. In consequence of this failure, there is no baseline to compare post-development levels, so no objective assessment of the climate change, or other consequences, of the inevitably increased leakage will be available. This in spite of well-known technology used elsewhere to conduct such baseline surveys (e.g. Picarro CRDS)

Deleterious Effects on Groundwater already occurred.

A nearby landholder, near the eastern boundary of the development area, personally known to me and well known to the proponent, has relied for decades on potable water from a bore on his property. Following the exploratory activities, minor in scale compared to the proposed works, this bore became foul, smelling of gas and sulphides, was rejected by his cattle, and the proponent Santos has trucked water to this property since. No formal recognition, nor arrangement for permanent relief has been made by the proponent. The fact of this contradicts the assurances by the proponent that negative effects are very unlikely.

The very large quantities of water required to be extracted, to cause the methane to be released from the coal matrix, will inevitably cause negative effects on those reliant.

The quality of the contaminated water returned to the environment (Bibblewindi Creek) during the exploratory phase was ameliorated by reverse osmosis treatment. This was relatively expensive, and it is not clear from the proposal that the proponent will be required to continue this level of treatment for the duration of the project.

The concentrated brine generated by the reverse osmosis process has already caused pollution incidents, even at the small scale of the exploration. Management of the vastly greater quantities of brine to be generated by this proposal will be many fold more likely to result in pollution incidents.

For the above reasons, I am firmly opposed to the project receiving approval.

Regards

Gregory T. Hall

-

168pg 2/2

Yours sincerely,

Gregory Hall

330 Glenwarrin Rd, Elands NSW 2429, Australia

169 Pg 1/2



**Brigitte Stievermann**

4505 Kyogle Road, Wadeville, New South Wales, Australia  
brignbob@inet.net.au

18 May 2017 14:00:35

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**The importance of rejecting the proposed Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

As a concerned member of the public, I am making a submission on the Narrabri Gas Project and I wish to state that I totally OBJECT to it.

My reasons to the objection include the following:

1. The EIS appears to be quite flawed in that it is not providing enough detail that I regard as important. There are no maps to indicate where the proposed 850 well and the lines and infrastructures needed around and between the wells are to be located. It seems lack of forward planning that Santos is asking for a blank cheque consent for the whole development promising only that it will decide where the 850 wells will go AFTERWARD using a "Field Development Protocol." What is meant by this waffly word is anyone's guess. No other project has been assessed in NSW on this basis. There needs to be a far greater set of details on the placement of the well, the pipelines' position and the placement of the huge number of infrastructures that support the wells and pipelines. It is up to the Government to insist that Santos release details pertaining to all aspects of the proposed siting of wells, pipelines and infrastructures to the public at large.

2. What is the justification for this proposed large scale development? Cheaper gas, more gas for the people of eastern Australia? That is a joke. Unconventional gas such as CSG is expensive to produce and the amount produced is not great. Furthermore, there is a history of Santos's involvement in driving up prices of gas because by being part of a number of large gas companies who were over-committing themselves to sell more gas to overseas customers than those massive Queensland fields could provide, thereby helping to squeeze the supply of gas to Australian businesses and homes of the east coast of Australia and subsequently increasing the price of gas supply here. Even if the proposed development goes ahead, it may supply as little as under 5% of the volume of gas that has been contracted to be sold to overseas interests. That does not make economic sense. As for the growth of jobs, once the construction phase passes the temporary jobs will disappear and only a handful will remain.

3. Besides the inaccuracy of maintaining the fallacy that the development will provide tremendous economic bounty to Australia, there is the vexed question of the groundwater of the Great Artesian Basin. This is a lifeline to our agriculture ventures in this dry continent. To tamper with its sustainability is a crime to present and future use of the land for the benefit of all. We cannot afford to risk tampering with this crucial resource and already Santos has admitted that there will be loss of water from the recharge aquifer that lies beneath the Pilliga sandstone where the proposed development is being planned. There have already been significant water losses from the Great Artesian Basin areas in Queensland so it is a very valid concern.

4. Extracting ground water for this project will result in an enormous load of salt which needs to be removed. It is proposed that once peak production comes into play, there will be around 115 tonnes of salt produced per day and Santos plans for this to be placed in landfill. This is not an acceptable option.

5. To ignore and to tamper with or destroy the cultural heritage of the Gamilaraay people of the Pilliga is to deny their rights to their heritage and connection to country. This proposed development will fragment, industrial and destroy this connection.

6. The Pilliga is an area of enormous biodiversity within the largest temperate woodland in NSW. With Santos proposing to clear nearly 1000ha of land fragmentation of the land will impact heavily on the endangered species within the cleared area that will be the gas fields. Because there is no clear indication where the wells, pipelines and infrastructures will go,

169 pg 212

any proper ecological impact assessment cannot be made. Besides this the whole of the Pilliga is a unique, natural and cultural icon that should be protected for all, and for generations to come, not be turned into an industrial wasteland that will never recover from the impact it makes.

7. The impact of the gasfields will affect air quality for those living within the vicinity, there will be social and health impacts with no modelling undertaken for effect on cost of living, the impact on health of diesel generators on well pads, at water treatment and gas compression plants. There is also no assessment undertaken for fugitive methane emissions.

8. The internationally significant Siding Spring Observatory will certainly be impacted on through the light pollution from flares, compressor stations and the water treatment plant thereby virtually ruining the dark sky needed for its work.

\*Finally, a recent research by the Melbourne Energy Institute shows that we are probably dramatically under-estimating the fugitive methane emissions from unconventional gas -this includes coal seam gas. It is an energy source that is ultimately not a useful source of energy and we have the technology to replace gas with more renewable forms of energy. It is time we moved on!

Yours sincerely,

Brigitte Stievermann

Lillifield, 4505 Kyogle Rd, Wadeville NSW 2474, Australia



**Dave Rowe**

La Colline Alstonville 2477  
fairgo4all.dr@gmail.com

19 May 2017 14:53:51

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**Narrabri Gas Project not in the public interest.**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I Dave Rowe make this submission to the Narrabri Gas Project EIS.

I object to this project and any further CSG projects other than those where coal seam gas is omitted by nature without human influence. This project should be rejected in the National interest.

This project, should not be approved as it would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Devastate some 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife which must be protected for future generations. Already successive government at Federal, State and local have condoned or worst even authorised mass deforestation and left this generation and others with a devastated environment and caused severe unemployment. After all where are the cedar cutters of the north coast -the red gold (trees) are gone, as is all the employment. As a result our Richmond river is heavily polluted and we have massive weed infestation ( camphor laurel & lantana to name but two) and many industries have closed down.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW. I have received complaints from farmers in Casino who have lost their ground water due to CSG drilling. Have you set up a mandatory sinking fund from these miners to repair damage to the land and ground water systems? Where is the Compensation from miners to assist the devastation CSG has already done to land owners ?
4. Lead to large deliberate and emissions of methane from venting and leakage, adding to climate change. We have great concerns over the regulators regimes governing present CSG projects, a failure of government to properly police the regulations to ensure compliance and stop dodgy practitioners and compensate those who suffer loss as a result.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to act in the public interest by rejecting this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Dave Rowe

La Colline Alstonville 2477



**Patti Wilkins**

14 Rutherford Crescent, Ainslie, Australian Capital Territory, Australia  
bodyritept@gmail.com

18 May 2017 16:05:15

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

I ask the NSW government to consider my submission on Santos' EIS for the Narrabri Gas Project.

The following issues concern me deeply and I regard each of them as having risks that cannot be managed with any guarantee.

1: Drilling through the Great Artesian Basin aquifer to reach the coal seam presents a threat to Australia's greatest underground water resource. This water is critical to the nation and is irreplaceable. It supports inland towns in NSW and Queensland, their agriculture and pastoral activities. As it is well understood that bore casings fail over time, to allow the proposed 850 bores to be sunk is irresponsible in the extreme. The Great Artesian Basin is a national resource not just a NSW resource. Santos have failed to demonstrate in their EIS that the engineering of these bores will retain their integrity in perpetuity.

2: CSG extraction has proved to be dangerous and destructive elsewhere in Australia. The Condamine River in Queensland bubbles with fugitive methane emissions released as a result of fracturing the substrata. The land too has been contaminated and gas escapes from the soil. Given this potent evidence of the outcome of CSG mining in Queensland it would be a folly to permit Santos to proceed in the Pilliga Forest. I do not believe that Santos have demonstrated in their EIS that there will be no fugitive emissions of methane.

3: The Narrabri Gas Project covers a vast area of land that is of immense significance to the Gamilaraay people. To criss-cross the region with access roads, well pads, vents and flares will destroy the integrity of the forest and the environmental values that make this place critical to the ongoing welfare of the indigenous people. On this issue alone the EIS should be rejected by government. The EIS patently fails to address the needs and objections of the Gamilaraay.

4. Santos have made it known that they are happy with an increase of 4 degrees in climate which we all know will have catastrophic outcomes for Australia in bushfires, floods, tropical diseases and pest migration

In conclusion it is my view that the EIS, while lengthy, has omitted critical issues. These issues present risks that have not been adequately quantified. I urge you to employ a precautionary approach and reject Santos' EIS for this project.

I thank the government for considering my submission.

Signed,

Yours sincerely,

Patti Wilkins

14 Rutherford Cres, Ainslie ACT 2602, Australia

172 pg 112 ✓

**Brendan Shoebridge**

17 Parkland Drive, Alstonville, New South Wales, Australia  
brendanshoebridge@yahoo.com.au

"To: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

SUBMISSION TO THE NARRABRI GAS PROJECT EIS

Submission by:

Mr Brendan Shoebridge

PO Box 174 Alstonville NSW 2477

21st May 2017

Dear Sir / Madam,

I hereby submit my objection to the Narrabri Gas project, proposed by Santos via its EIS.

I strongly object to this project. I believe the case against unconventional gas development is now so well documented that any proposed development approvals should, and will be viewed as negligence.

As part of my submission I wish to submit a film I worked on entitled 'Fractured Country – An Unconventional Invasion' .

It can be viewed freely here via youtube : <https://www.youtube.com/watch?v=XrE7LzZCn1E>

The section relating to the Pilliga Forest can be seen at the 28 minute mark but I ask all concerned to view this short documentary in it's entirety.

If further information is required please consider the following:

1. The SANTOS EIS claims that they will not interfere with the GAB recharge zone.

The project plans to extract over 35 billion litres of water much in the first five years. Government hydrogeological mapping of the GAB shows the project will straddle the most important inflow zone into the GAB in NSW (Hydrogeological Atlas of the Great Artesian Basin (2016) Department of Water Resources (NSW) Hydrogeological Series Sheet SH 55-12; NSW Department of Water & Energy April 2009 PN00799 WR2008-089).

2. Coal seam gas (CSG) production can have an impact on groundwater quality and quantity in adjacent or overlying aquifers.

The EIS provides no evidence that shows there is no connectivity between aquifer strata. Recent studies document migration of coal bed methane to the surface (<https://www.nature.com/articles/srep15996>).

3. All well casings will fail eventually.

There is no comprehensive strategy to ensure long-term well integrity. We will have 850 leakage time-bombs through the GAB

(<http://www.pnas.org/content/111/30/10955.full>).

4. Santos want to release treated water into Bohen Creek during high and moderate flows.

The EIS ignores that Bohen Creek is a recognised surface groundwater ecosystem (Australian GDE Atlas). Treated water must not be released into Bohen Creek.

172 pg 2/2

5. Recent work has shown that the levels of methane emissions from CSG operations are high enough to pose significant risks to greenhouse gas levels

([http://www.resourcesandenergy.nsw.gov.au/\\_\\_data/assets/pdf\\_file/0010/559549/Fugitive-Greenhouse-Gas-Emissions-from-Coal-Seam-Gas-Production-in-Australia-CSIRO-report.pdf](http://www.resourcesandenergy.nsw.gov.au/__data/assets/pdf_file/0010/559549/Fugitive-Greenhouse-Gas-Emissions-from-Coal-Seam-Gas-Production-in-Australia-CSIRO-report.pdf);

[http://energy.unimelb.edu.au/\\_\\_data/assets/pdf\\_file/0019/2136223/MEI-Review-of-Methane-Emissions-26-October-2016.pdf](http://energy.unimelb.edu.au/__data/assets/pdf_file/0019/2136223/MEI-Review-of-Methane-Emissions-26-October-2016.pdf)).

6. Recent work has shown that the levels of methane emissions from CSG operations are high enough to pose significant risks to greenhouse gas levels

([http://www.resourcesandenergy.nsw.gov.au/\\_\\_data/assets/pdf\\_file/0010/559549/Fugitive-Greenhouse-Gas-Emissions-from-Coal-Seam-Gas-Production-in-Australia-CSIRO-report.pdf](http://www.resourcesandenergy.nsw.gov.au/__data/assets/pdf_file/0010/559549/Fugitive-Greenhouse-Gas-Emissions-from-Coal-Seam-Gas-Production-in-Australia-CSIRO-report.pdf);

[http://energy.unimelb.edu.au/\\_\\_data/assets/pdf\\_file/0019/2136223/MEI-Review-of-Methane-Emissions-26-October-2016.pdf](http://energy.unimelb.edu.au/__data/assets/pdf_file/0019/2136223/MEI-Review-of-Methane-Emissions-26-October-2016.pdf)).

7. The region is an astronomy destination providing jobs business and tourism. Flaring gas and increase in airborne dust pose a significant risk. The impact of high level flares must be assessed (<https://www.aao.gov.au/news-media/media-releases/warrumbungles-declared-australias-first-dark-sky-park>).

8. Fragmenting the bush of the Pilliga forest will add to pressure from fox predation on threatened species. No control program will compensate for the increased fox activity along new tracks and easements (Meek and Saunders 2000 <http://www.publish.csiro.au/wr/WR98030>).

9. The project will clear close to 1 000 hectares of the Pilliga Forest fragmenting the largest temperate woodland in New South Wales. The Pilliga Forest is a remnant forest a significant genetic repository with a complex interrelationship with recharge and inflow of ground water to the Great Artesian Basin and other acquirers closer to the surface. More research is needed.

10. The proposal fails to adequately address concerns by the Gamilaraay people about further destruction of significant social cultural and spiritual sites.

This project should not proceed. Construction and exploration already undertaken has had a significant impact on the communities and the environment. The proposal to massively elevate drilling has a residual catastrophic risk to the immediate environment the integrity of the Great Artesian Basin and other aquifers and the communities dependant on them.

In conclusion I wish to state that it should be abundantly clear to all our political leaders that we need all available resources to be committed to developing a clean energy future. We are rapidly running out of time some researchers say its already too late. But heaven help us all if we continue down the disastrous path we are heading. I urge all concerned to act now and be on the right side of history

For a safe clean future for all

Mr Brendan Shoebridge

17 Parkland Dr Alstonville NSW 2477

173 pg 112 ✓

**David Lunt**

2/31 Tibrockney Street, Highett, Victoria, Australia

lunty@mac.com

15 May 2017 22:39:16

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

1. Extract over 35 billion litres of salt laden groundwater, much of it in the first five years. This water will be treated and will generate almost 500,000 tonnes of salt waste, for which there is no safe disposal plan.
2. Clear close to 1,000 hectares of the Pilliga Forest, fragmenting the largest temperate woodland in New South Wales, home to unique wildlife and a valuable Koala habitat.
3. Drill through a recharge aquifer of the Great Artesian Basin and draw water down from a water resource relied upon by rural communities across western NSW as well as central QLD, SA and NT!
4. Lead to large deliberate emissions of methane from venting and leakage, adding to climate change. There is no data on escaping gas from the whole process - well to consumption (commonly referred to as fugitive emissions) and the impacts on the local environment and broader climate (as Methane is four (4) times more harmful than Carbon Dioxide).
5. As there is no legislated Domestic Gas Reserve policy, all the gas will be transferred to Gladstone to fill export contracts and therefore Australian Manufacturing businesses will continue to struggle to compete and consumers will be impacted by higher prices. Australia has plenty of Gas for Domestic supply, but instead it's being diverted to fill export orders. The Gas majors (Santos, AGL, Origin) cannot supply the Gas they've contracted and therefore are ripping Australia off.
6. The grounds of the EIS cannot be trusted - the impacts in QLD (esp. the gas Flaring which was stopped for your recent visit) and Reports and experience from the U.S. indicate the environmental issues/destruction and the impacts on property values (& being uninsurable) as well as the local health impacts to people and livestock/landscapes.
7. While the majority of Stakeholders have agreed to target a 2 degree rise in temperatures in their Paris agreements (COP21) - Santos has admitted to working to a 4 degree rise in temperatures and therefore has a blinkered view of managing the emergent risks of Climate Change and rising sea levels.

The project will also cause more trauma to the regional Aboriginal community because the area of impact is crucially important to the spiritual, cultural and social life of Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory - an internationally regarded facility!

173 pg 2/2

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

David Lunt

2/31 Tibrockney St, Highett VIC 3190, Australia

174 ✓

**Jennifer Hirst**

41 Adelong Court, Morayfield, Queensland, Australia  
jhirste@gmail.com

15 May 2017 23:00:26

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas project.

Think what is going to be left in the future for our children and grandchildren to inherit!

We want sustainability for the future not these destructive polluting industries.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark night sky needed by the internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Jennifer Hirst

41 Adelong Ct, Morayfield QLD 4506, Australia

175 ✓

**Jess Watkins**

19 Glen Ave, Arcadia Vale, New South Wales, Australia  
watkinsjessica@hotmail.com

15 May 2017 23:25:24

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

A Submission to the Narrabri Gas Project EIS.

I, in no way support, and wholeheartedly disapprove of this project. I expect our government to act in behalf of all citizens, not just a few.

Please consider some of the know effects;

Taking 35 billion litres of salt laden groundwater.

Clearing close to 1,000 hectares of the Pilliga Forest, a place that has capacity to support the health and well being of a community, and;

Drilling through a recharge aquifer of the Great Artesian Basin.

Yes, that is only some.

Continuously, consciously and proudly some how our land and waters are being cut up, divided, broken, torn, split, someone has to say no.

We have so little of it left.

We need it.

The people who purchase the product do not benefit, the environment does not benefit, the locals don't benefit, the future and future generations don't benefit - Who is this for?

There are towns all across Australia, where industry causes negative effects, and doesn't deliver on pr. Tumut, and in particular Adelong are both towns reeling from what industry promised. This business model is outdated and short sighted.

will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as causing light pollution that will ruin the dark

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Jess Watkins

19 Glen Ave, Arcadia Vale NSW 2283, Australia



176



**Jenny Herbert**

65 Heaths Road, Metung, Victoria, Australia  
jennyherbert1@bigpond.com

17 May 2017 12:54:20

---

**Please reject the Narrabri Gas Project**

---

Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

It is a travesty of the power invested in government by citizens, that the government should consider a project by a foreign country at the expense of its constituents.

Food security is of growing importance. The government should be continually preferencing farming to practices that put food production at risk.

There is, as we now clearly know, no energy supply argument to support Santos's project. Their past actions and those of their fellow miners indicates that the gas is not for domestic purposes and will not contribute to price containment in Australia.

There is, in fact, everything against this project and nothing for it - if, that is, the government is truly representative of citizens.

A government with leadership and an eye to the future will be supporting renewable energy, not damaging and dangerous coal seam gas.

Signed,

Yours sincerely,

Jenny Herbert

65 Heaths Rd, Metung VIC 3904, Australia

177 ✓

**Frances De Glas**

15 Pearce Avenue, Goonellabah, New South Wales, Australia  
frances.deglas@bigond.com

16 May 2017 15:50:32

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project,

I object to this project & strongly believe it should be rejected outright.

One of my major objections is to the impact of the well sites. In the EIS the location of well sites is unknown. Well sites & associated infrastructure have some of the greatest environmental impacts, so how can the impact be known if the sites are not defined. Many hectares of forest will be damaged with the one hectare of pad boundary, plus land for equipment & the many traversing access roads.

If this project goes ahead it will extract thirty five billion litres of toxic groundwater. To date, as far as I am aware, there is no safe method to disperse of this water or the salt residue. As water is such a precious commodity in this dry continent, diverting water from one of the recharge aquifers for the GAB seems an unwise decision. This water is essential to maintain the farming communities in western NSW & the agricultural industries around Narrabri.

There are 807 flora species & 289 animals that call the Pilliga forest home. Among these some are listed under State & Federal legislation as endangered or threatened, Appendix J 1, indicates 'a significant residual impact' will occur to threatened species. It has been proposed that this will be offset as part of the biodiversity offset strategy. Biodiversity offsets have a lag time & will not help animals which are impacted at the time. I believe it is unlikely to mitigate the significant projected impacts.

What this country needs is Governments who will invest in renewable energy & not allow mining companies inflict further social , environmental & economic harm on us.

I urge the Government to reject this project & have the courage to make decisions which will reduce our contribution to climate change.

Signed,

Yours sincerely,

Frances De Glas

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**Cathy Hall**

41A Daly Street, South Fremantle, Western Australia, Australia  
cathy.hall@dalystreet6162.com

14 May 2017 04:31:43

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

This project, if approved, would:

\*Extract over 35 billion litres of salt laden groundwater, most in the first five years. The treated water will generate ~500,000 tonnes of salt waste with no safe disposal plan.

\*Clear ~1,000 hectares of Pilliga Forest thus fragmenting the largest temperate woodland in New South Wales-home to unique wildlife.

\*Drill into a recharge aquifer of Great Artesian Basin drawing on water from a water resource relied upon by rural communities across western NSW.

\*Lead to large emissions of methane from venting and leakage, adding to the Climate Change crisis.

The project will cause trauma to regional Indigenous communities because the area of impact is crucially important to the spiritual, cultural and social life of the Gamilaraay people.

The project is not justified: Santos' own coal seam gas export activities in Queensland have caused gas prices to rise and supply to become unpredictable.

NSW should respond to this by investing in more reliable and ultimately cheaper renewable energy, not by letting Santos inflict more environmental, social and economic harm.

It will cause economic upheaval in Narrabri and put agricultural industries at risk, as well as light pollution ruining the Dark night sky needed for internationally renowned Siding Spring Observatory.

Coal seam gas is harmful to health. Neither the NSW Government nor Santos have investigated or dealt with the serious health effects of coal seam gas now appearing in peer-reviewed research in the United States.

I urge the Government to reject this project and make the Great Artesian Basin recharge off-limits to gas mining.

Signed,

Yours sincerely,

Cathy Hall

41A Daly St, South Fremantle WA 6162, Australia

179 ✓

**Barry Shaw**

29A Garland Road, Naremburn, New South Wales, Australia  
shawbry@me.com

15 May 2017 11:00:13

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**Please reject the Narrabri Gas Project**

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Attn: Executive Director, Resource Assessments

Department of Planning and Environment

GPO Box 39

Sydney NSW 2001

This is a submission to the Narrabri Gas Project EIS.

I object to this project and believe it should be rejected.

The potential destruction of precious land for very short term gain cannot be justified . At the end of the life of a mine , recovery of the land to its former condition is beyond control of our generations to follow.

Please do not be party to spoiling our beautiful country.

Signed,

Yours sincerely,

Barry Shaw

29A Garland Rd, Naremburn NSW 2065, Australia