

Adesso, Ireland – Friday, 04 February 2022 – 08:48:37

Subject	Objection to Origin EMP for EP 98 & 76
From	Ireland Adesso
Sent	2/4/2022 8:48:37 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kerrieann Adesso

This email was sent by Ireland Adesso via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ireland provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ireland Adesso at *****.

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Adesso, Kerrieann – Friday, 04 February 2022 – 08:47:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Kerrieann Adesso
Sent	2/4/2022 8:47:40 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kerrieann Adesso

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Please reply to Kerrieann Adesso at *****.

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Ahmed, Sandy – Thursday, 03 February 2022 – 15:31:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Sandy Ahmed
Sent	2/3/2022 3:31:13 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sandy Ahmed
Clovelly Park, South Australia, 5042, Australia

This email was sent by Sandy Ahmed via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sandy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sandy Ahmed at *****.

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Ahokava, Viliami – Monday, 07 February 2022 – 09:33:07

Subject	Objection to Origin EMP for EP 98 & 76
From	Viliami Ahokava
Sent	2/7/2022 9:33:07 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Viliami Ahokava
White Gums, Northern Territory, 0870, Australia

This email was sent by Viliami Ahokava via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Viliami provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Viliami Ahokava at *****.

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Ainsley, Janelle – Tuesday, 08 February 2022 – 20:00:12

Subject	Objection to Origin EMP for EP 98 & 76
From	Janelle Ainsley
Sent	2/8/2022 8:00:12 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Janelle Ainsley
Rum Jungle, Northern Territory, 0822, Australia

This email was sent by Janelle Ainsley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Janelle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Janelle Ainsley at *****.

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Allport, Greg – Wednesday, 09 February 2022 – 16:01:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Greg Allport
Sent	2/9/2022 4:01:13 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Greg Allport via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Greg provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Greg Allport at *****.

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Ambler, Susan – Wednesday, 02 February 2022 – 05:46:38

Subject	Objection to Origin EMP for EP 98 & 76
From	Susan Ambler
Sent	2/2/2022 5:46:38 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Susan Ambler
• Katoomba DC, New South Wales, 2780, Australia

This email was sent by Susan Ambler via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Susan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Susan Ambler at *****.

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Amos, Lorraine – Thursday, 10 February 2022 – 13:55:39

Subject	Objection to Origin EMP for EP 98 & 76
From	Lorraine Amos
Sent	2/10/2022 1:55:39 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Lorraine Amos
Buderim
Queensland, 4556, Australia

This email was sent by Lorraine Amos via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lorraine provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lorraine Amos at *****.

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Anderson, Louis – Wednesday, 09 February 2022 – 17:01:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Louis Anderson
Sent	2/9/2022 5:01:19 PM

Please don't be the next politicians to ignore the people you work for. Don't put single short term interest ahead of long term gain. Fracking has no place here or anywhere in the Northern Territory. Please make it your business to not allow this dreadful act of destruction in nature to proceed now and not ever in the future.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Louis Anderson
Fernleigh, New South Wales, 2479, Australia

This email was sent by Louis Anderson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Louis provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Louis Anderson at *****.

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Andrew, Edwards – Wednesday, 09 February 2022 – 10:37:58

Subject	Objection to Origin EMP for EP 98 & 76
From	Edwards Andrew
Sent	2/9/2022 10:37:58 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Edwards Andrew via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Edwards provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Edwards Andrew at *****,

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Anne, Thompson – Thursday, 10 February 2022 – 17:05:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Thompson Anne
Sent	2/10/2022 5:05:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Thompson Anne via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Thompson provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Thompson Anne at *****.

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Aroney, Barbara – Wednesday, 09 February 2022 – 12:37:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Barbara Aroney
Sent	2/9/2022 12:37:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians. They are also concern of all Australians since they risk our environment and further the disaster of climate heating. Furthermore they are ignoring and/or bullying Native Title Owners in the area - and this diminishes all Australians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Barbara Aroney
Annandale, New South Wales, 2038, Australia

This email was sent by Barbara Aroney via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Barbara provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Barbara Aroney at *****.

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Ashley, Zerbst – Sunday, 06 February 2022 – 14:12:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Zerbst Ashley
Sent	2/6/2022 2:12:25 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Zerbst Ashley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Zerbst provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Zerbst Ashley at *****.

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Baines, George – Friday, 04 February 2022 – 19:31:48

Subject	Objection to Origin EMP for EP 98 & 76
From	George Baines
Sent	2/4/2022 7:31:48 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by George Baines via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however George provided an email address (*****) which we included in the REPLY-TO field.

Please reply to George Baines at *****.

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Bannister, Allan – Wednesday, 09 February 2022 – 08:00:21

Subject	Objection to Origin EMP for EP 98 & 76
From	Allan Bannister
Sent	2/9/2022 8:00:21 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Allan Bannister
Allynbrook, New South Wales, 2311, Australia

This email was sent by Allan Bannister via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Allan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Allan Bannister at *****.

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Bannister, Kathy – Wednesday, 09 February 2022 – 23:50:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Kathy Bannister
Sent	2/9/2022 11:50:23 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kathy Bannister

This email was sent by Kathy Bannister via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kathy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kathy Bannister at *****.

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Barber, Ross – Tuesday, 08 February 2022 – 18:26:39

Subject	Opposition to Fracking Exploration in Australia and Objection to Origin EMP for EP 98 & 76
From	Ross Barber
Sent	2/8/2022 6:26:39 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Australians .

Fracking exploration has proved to be extremely detrimental to the Environment throughout the world, and once the damage is done there is no going back.

Fracking and Mining activities throughout this country which do not pay attention to the risks to our country and which are not subjected to proper scrutiny and evaluation are resulting in degradation of our environment and our world.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ross Barber (Wiradjurri)

This email was sent by Ross Barber via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ross provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ross Barber at *****.

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Barkla, Les – Tuesday, 01 February 2022 – 18:24:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Les Barkla
Sent	2/1/2022 6:24:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Les Barkla
Woody Point, Queensland, 4019, Australia

This email was sent by Les Barkla via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Les provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Les Barkla at *****.

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Barlow, Catherine – Tuesday, 08 February 2022 – 16:59:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Catherine Barlow
Sent	2/8/2022 4:59:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians or any Australian. Your actions in approving this nightmare affects each of us.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Catherine Barlow
Berry, New South Wales, 2535, Australia

This email was sent by Catherine Barlow via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Catherine provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Catherine Barlow at *****.

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Barrett, Pixie – Friday, 04 February 2022 – 22:34:18

Subject	Objection to Origin EMP for EP 98 & 76
From	Pixie Barrett
Sent	2/4/2022 10:34:18 PM

I add my voice of objection to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Pixie Barrett
Lake Monduran, Queensland, 4671, Australia

This email was sent by Pixie Barrett via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Pixie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Pixie Barrett at *****.

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Bath, Dana – Thursday, 03 February 2022 – 18:12:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Dana Bath
Sent	2/3/2022 6:12:14 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Dana Bath

This email was sent by Dana Bath via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dana provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dana Bath at *****.

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Bauer, Corinne – Thursday, 03 February 2022 – 14:57:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Corinne Bauer
Sent	2/3/2022 2:57:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Corinne Bauer
Kunda Park, Queensland, 4556, Australia

This email was sent by Corinne Bauer via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Corinne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Corinne Bauer at *****.

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Bell, Douglas – Wednesday, 09 February 2022 – 18:47:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Douglas Bell
Sent	2/9/2022 6:47:59 PM

I am writing as an Origin shareholder to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Douglas Bell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Douglas provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Douglas Bell at *****.

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Bender, Dave – Wednesday, 09 February 2022 – 17:20:47

Subject	Objection to Origin EMP for EP 98 & 76
From	Dave Bender
Sent	2/9/2022 5:20:47 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Dave Bender via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dave provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dave Bender at *****.

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Best, Stephen – Thursday, 10 February 2022 – 09:09:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Stephen Best
Sent	2/10/2022 9:09:52 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Stephen Best
Sharks Bay Western Australia, Australia 6537
Malgana Country

This email was sent by Stephen Best via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Stephen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Stephen Best at *****.

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Billing, Garry – Thursday, 10 February 2022 – 15:56:39

Subject	Objection to Origin EMP for EP 98 & 76
From	Garry Billing
Sent	2/10/2022 3:56:39 PM

Origin Energy has submitted an Environmental Management Plan to drill and frack four new gas exploration wells in the Roper region.

Allowing Origin to go on and develop production gasfields would cause irreparable damage to water, land and our climate just so Origin can make a quick buck off an industry that has no future as the world shifts away from fossil fuels.

Origin Energy's social license to operate is still being opposed by Territory communities. Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes.

It's not too late - expressing your opposition to Origin's plans to frack the Beetaloo will help to stop this destructive industry before it can get started.

1. Origin's plans will create up to 273,030 tonnes of avoidable greenhouse gas emissions, completely incompatible with the Territory's target of net zero emissions by 2050

This amounts to 1.3% of the Territory's entire 2019 emissions - just for one company's early exploration fracking plans

A full-scale fracking industry in the Beetaloo would result in at least 10 to 15 million tonnes of CO₂-e of direct and indirect emissions, let alone the emissions from burning the gas

2. Origin's plans will use at least 220 million litres of water despite the absence of a Water Allocation Plan, and put valuable groundwater at risk from fracking

The fracking proposal risks chemical spills, toxic wastewater overflowing from open ponds, and the contamination of underground water resources

The proposal puts water resources at risk from pollution and unsustainable extraction, given Fracking Inquiry recommendations are still not implemented, there is no Water Allocation Plan and there is no Safe Drinking Water Act

3. Origin's fracking plans will threaten key species and take place in Lake Wood catchment

Origin plans to use open ponds to store highly toxic wastewater pose a risk to wildlife, especially birds like the endangered Gouldian Finch and migratory species

Aquifers underlying the proposed fracking sites form part of the catchment of the beloved and ecologically significant Lake Woods conservation area

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the

inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Garry Billing
Binduli, Western Australia, 6430, Australia

This email was sent by Garry Billing via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Garry provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Garry Billing at *****.

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Bishton, Daniel – Wednesday, 09 February 2022 – 22:52:50

Subject	Objection to Origin EMP for EP 98 & 76
From	Daniel Bishton
Sent	2/9/2022 10:52:50 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Daniel Bishton
Emungalan, Northern Territory, 0850, Australia

This email was sent by Daniel Bishton via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Daniel provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Daniel Bishton at *****.

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Bitar, Whitney – Tuesday, 08 February 2022 – 16:31:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Whitney Bitar
Sent	2/8/2022 4:31:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Whitney Bitar
Heavitree Gap CPA, Northern Territory, 0873, Australia

This email was sent by Whitney Bitar via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Whitney provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Whitney Bitar at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Blamey, Ian – Thursday, 10 February 2022 – 15:56:39

Subject	Objection to Origin EMP for EP 98 & 76
From	Ian Blamey
Sent	2/10/2022 3:56:39 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Ian Blamey via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ian Blamey at *****.

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Blamey, Pam – Thursday, 10 February 2022 – 12:02:32

Subject	Strong Objection to Origin EMP for EP 98 & 76
From	Pam Blamey
Sent	2/10/2022 12:02:32 PM

There is a saying from the Cree people of north America:

"When the last tree has been cut down, the last fish caught, the last river poisoned, only then will we realize that one cannot eat money."

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Pam Blamey
Taringa, Queensland, 4068, Australia

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Please reply to Pam Blamey at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Boakes, Debbie – Wednesday, 09 February 2022 – 12:19:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Debbie Boakes
Sent	2/9/2022 12:19:15 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Debbie Boakes
Girraween, Northern Territory, 0836, Australia

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Please reply to Debbie Boakes at *****.

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Bodenham, Keitha – Thursday, 10 February 2022 – 21:38:44

Subject	Objection to Origin EMP for EP 98 & 76
From	Keitha Bodenham
Sent	2/10/2022 9:38:44 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

I have exactly the same concerns as above for the proposed fracking of the Kimberley, and Midwest agricultural region in WA! And the Scarborough gas processing and export hub with associated gas extraction emissions, NW WA. Also, the proposed fracking...for oil...in the Gt Sandy Desert, WA!

Wrong, wrong, wrong for human health, environmental health, and planetary health. The global climate science dictates that no new fossil fuel emissions can be accommodated, if we seek to urgently reduce current greenhouse gas emissions levels in time to avoid climate and societal collapse. To do so knowing the science, surely amounts to a criminal act against humanity. Literally manslaughter, to not put too fine a point on it. Please act for the continuation of a habitable world and future.

Yours sincerely,

Keitha Bodenham

Baskerville, Western Australia, 6056, Australia

This email was sent by Keitha Bodenham via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC

3834 we have set the FROM field of this email to our generic no-reply address at ***** , however Keitha provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Keitha Bodenham at *****.

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Bodenham, Murielle – Friday, 04 February 2022 – 08:56:11

Subject	Objection to Origin EMP for EP 98 & 76
From	Murielle Bodenham
Sent	2/4/2022 8:56:11 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Murielle Bodenham via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Murielle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Murielle Bodenham at *****.

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BODIAM, MELANIE – Thursday, 10 February 2022 – 16:37:53

Subject	Objection to Origin EMP for EP 98 & 76
From	MELANIE BODIAM
Sent	2/10/2022 4:37:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by MELANIE BODIAM via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however MELANIE provided an email address (*****) which we included in the REPLY-TO field.

Please reply to MELANIE BODIAM at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Boekel, Robert – Friday, 04 February 2022 – 14:22:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Robert Boekel
Sent	2/4/2022 2:22:15 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Robert Boekel
Rangeview, Victoria, 3132, Australia

This email was sent by Robert Boekel via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Robert provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Robert Boekel at *****,

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Bolte, Shem – Wednesday, 09 February 2022 – 18:44:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Shem Bolte
Sent	2/9/2022 6:44:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Shem Bolte
Alice Springs, Northern Territory, 0870, Australia

This email was sent by Shem Bolte via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Shem provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Shem Bolte at *****.

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Boulden, Heather – Sunday, 06 February 2022 – 23:29:34

Subject	Please object to Origin EMP for EP 98 & 76
From	Heather Boulden
Sent	2/6/2022 11:29:34 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan. It does not meet the requirements set down in the Petroleum (Environment) Regulations 2016 and the risks are too great.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put groundwater in the Lake Woods catchment at risk.

It is important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope a proper process is now being undertaken.

Please refuse the grant of this EMP.

Yours sincerely,
Heather Boulden
Darwin DC, Northern Territory, 0820, Australia

This email was sent by Heather Boulden via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Heather provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Heather Boulden at *****.

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Bramma, Belinda – Thursday, 10 February 2022 – 13:14:44

Subject	Objection to Origin EMP for EP 98 & 76
From	Belinda Bramma
Sent	2/10/2022 1:14:44 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Belinda Bramma
Harrington, New South Wales, 2427, Australia

This email was sent by Belinda Bramma via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Belinda provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Belinda Bramma at *****.

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Brian, Blackman – Wednesday, 09 February 2022 – 18:28:56

Subject	Objection to Origin EMP for EP 98 & 76
From	Blackman Brian
Sent	2/9/2022 6:28:56 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Blackman Brian via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Blackman provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Blackman Brian at *****.

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Brown, Joan – Thursday, 10 February 2022 – 07:55:46

Subject	Objection to Origin EMP for EP 98 & 76
From	Joan Brown
Sent	2/10/2022 7:55:46 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Joan Brown via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Joan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Joan Brown at *****.

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Brown, Peter – Tuesday, 08 February 2022 – 19:14:29

Subject	Objection to Origin EMP for EP 98 & 76
From	Peter Brown
Sent	2/8/2022 7:14:29 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Peter Brown

This email was sent by Peter Brown via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Peter provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Peter Brown at *****.

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Bumpstead, Robert – Wednesday, 09 February 2022 –
08:30:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Robert Bumpstead
Sent	2/9/2022 8:30:54 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Robert Bumpstead via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Robert provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Robert Bumpstead at *****.

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Burns, Anthea – Wednesday, 09 February 2022 – 11:30:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Anthea Burns
Sent	2/9/2022 11:30:15 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anthea Burns

This email was sent by Anthea Burns via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anthea provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anthea Burns at *****.

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Burns, Tim – Saturday, 05 February 2022 – 08:46:49

Subject	Objection to Origin EMP for EP 98 & 76
From	Tim Burns
Sent	2/5/2022 8:46:49 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Tim Burns via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tim provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tim Burns at *****.

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Buxton, Lyn – Thursday, 10 February 2022 – 15:34:37

Subject	Objection to Origin EMP for EP 98 & 76
From	Lyn Buxton
Sent	2/10/2022 3:34:37 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Lyn Buxton via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lyn Buxton at *****.

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Byrne, Matilda – Wednesday, 09 February 2022 – 22:17:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Matilda Byrne
Sent	2/9/2022 10:17:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Matilda Byrne
White Gums, Northern Territory, 0870, Australia

This email was sent by Matilda Byrne via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Matilda provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Matilda Byrne at *****,

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Byrnes, Megan – Wednesday, 02 February 2022 – 03:06:01

Subject	Objection to Origin EMP for EP 98 & 76
From	Megan Byrnes
Sent	2/2/2022 3:06:01 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Megan Byrnes via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Megan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Megan Byrnes at *****.

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Cabrera, Fulvio – Friday, 04 February 2022 – 11:47:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Fulvio Cabrera
Sent	2/4/2022 11:47:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Fulvio Cabrera
Avondale Heights, Victoria, 3034, Australia

This email was sent by Fulvio Cabrera via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Fulvio provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Fulvio Cabrera at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Caldwell, Caroline – Wednesday, 09 February 2022 – 06:44:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Caroline Caldwell
Sent	2/9/2022 6:44:03 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

As someone who supports the traditional owners I feel that this is not sustainable and will be detrimental to future income they may wish to earn from tourism.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

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Please reply to Caroline Caldwell at *****.

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Campbell, Fiona – Thursday, 10 February 2022 – 21:23:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Fiona Campbell
Sent	2/10/2022 9:23:36 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Fiona Campbell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Fiona provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Fiona Campbell at *****.

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Canham, Linda – Wednesday, 09 February 2022 – 10:57:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Linda Canham
Sent	2/9/2022 10:57:35 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Linda canham

This email was sent by Linda canham via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Linda provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Linda canham at *****.

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Carnie, Andrew – Sunday, 06 February 2022 – 05:48:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Andrew Carnie
Sent	2/6/2022 5:48:13 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
andrew carnie
Yarrabilba, Queensland, 4207, Australia

This email was sent by andrew carnie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however andrew provided an email address (*****) which we included in the REPLY-TO field.

Please reply to andrew carnie at *****.

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Carter, Arja – Thursday, 10 February 2022 – 08:09:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Arja Carter
Sent	2/10/2022 8:09:14 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Arja Carter via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Arja provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Arja Carter at *****.

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Carter, Jan – Wednesday, 09 February 2022 – 23:42:57

Subject	Objection to Origin EMP for EP 98 & 76
From	Jan Carter
Sent	2/9/2022 11:42:57 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jan Carter
Darwin DC, Northern Territory, 0820, Australia

This email was sent by Jan Carter via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jan Carter at *****.

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Caton, Claudia – Tuesday, 08 February 2022 – 21:15:51

Subject	Objection to Origin EMP for EP 98 & 76
From	Claudia Caton
Sent	2/8/2022 9:15:51 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

I have lived in NT for years in the past and understand the need for clean bore water, where available. It needs to be free from depressurisation, and all the toxins that “produced water” from the gas industry generates. Having open waste ponds in a flood prone environment is begging environmental disaster.

Please reject the oEnvironmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Claudia Caton via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Claudia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Claudia Caton at *****.

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Chandler, Peter – Thursday, 03 February 2022 – 17:06:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Peter Chandler
Sent	2/3/2022 5:06:35 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

In my view Origin only cares about its profits and nothing else.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Peter Chandler

This email was sent by Peter Chandler via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Peter provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Peter Chandler at *****.

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Chapel, Jessica – Thursday, 03 February 2022 – 14:32:08

Subject	Objection to Origin EMP for EP 98 & 76
From	Jessica M Chapel
Sent	2/3/2022 2:32:08 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jessica M Chapel
Birmingham, Michigan, 48009, United States

This email was sent by Jessica M Chapel via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jessica provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jessica M Chapel at *****.

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Chapman, Paulina – Wednesday, 09 February 2022 – 09:45:01

Subject	Objection to Origin EMP for EP 98 & 76
From	Paulina Chapman
Sent	2/9/2022 9:45:01 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Paulina Chapman via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Paulina provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Paulina Chapman at *****.

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Chappell, Julie – Tuesday, 08 February 2022 – 19:39:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Julie Chappell
Sent	2/8/2022 7:39:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Julie Chappell
Gosford, New South Wales, 2251, Australia

This email was sent by Julie Chappell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Julie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Julie Chappell at *****.

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Chappell, Kaitlyn – Wednesday, 09 February 2022 – 08:34:42

Subject	Objection to Origin EMP for EP 98 & 76
From	Kaitlyn Chappell
Sent	2/9/2022 8:34:42 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kaitlyn Chappell

This email was sent by Kaitlyn Chappell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kaitlyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kaitlyn Chappell at *****.

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Chappell, Nik – Tuesday, 08 February 2022 – 16:17:30

Subject	IMPORTANT Objection to Origin EMP for EP 98 & 76
From	Nik Chappell
Sent	2/8/2022 4:17:30 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016. Following the Pepper Inquiry into fracking in the Northern Territory, a number of key recommendations were suggested to mitigate the risks of environmental contamination and public health. These are nowhere near completed and yet these companies are 'exploring' without appropriate regulatory framework to protect our beautiful ecosystem.

I am particularly concerned about the large open water storages full of toxic wastewater that will be created. Following our year of El Nina and the overwhelming floodwaters that inundated numerous regions within the territory as well as interstate, it is undeniable that open water storage ponds will NOT be sufficient to keep our waterways and groundwater free of toxic wastewater. Allowing this to go ahead without safeguarding this imminent threat to our land water and health will be NEGLIGENT!

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Nik Chappell
Gillen, Northern Territory, 0870, Australia

This email was sent by Nik Chappell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Nik provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Nik Chappell at *****.

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Chirlian, Nicola – Thursday, 10 February 2022 – 21:03:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Nicola Chirlian
Sent	2/10/2022 9:03:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Nicola Chirlian via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Nicola provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Nicola Chirlian at *****,

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Chute, Ron – Thursday, 03 February 2022 – 14:44:57

Subject	Objection to Origin EMP for EP 98 & 76
From	Ron Chute
Sent	2/3/2022 2:44:57 PM

The I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ron Chute

This email was sent by Ron Chute via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ron provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ron Chute at *****.

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Clarke, Dian – Wednesday, 09 February 2022 – 10:31:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Dian Clarke
Sent	2/9/2022 10:31:15 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Dian Clarke via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dian Clarke at *****.

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Cochrane, Stephanie – Wednesday, 02 February 2022 – 09:00:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Stephanie Cochrane
Sent	2/2/2022 9:00:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Stephanie Cochrane
White Gums, Northern Territory, 0870, Australia

This email was sent by Stephanie Cochrane via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Stephanie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Stephanie Cochrane at *****.

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Coleman, Robyn – Wednesday, 09 February 2022 – 10:07:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Robyn Coleman
Sent	2/9/2022 10:07:30 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians. Fracking has been shown in many Countries including our own that the damage to water can be critical. For Australia which relies so much on ground water sources this type of exploration is criminal.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Robyn Coleman

This email was sent by Robyn Coleman via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Robyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Robyn Coleman at *****.

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Collins, Darren – Wednesday, 09 February 2022 – 15:53:55

Subject	Objection to Origin EMP for EP 98 & 76
From	Darren Collins
Sent	2/9/2022 3:53:55 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Darren Collins

This email was sent by Darren Collins via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Darren provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Darren Collins at *****.

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Colloby, Cecily – Friday, 04 February 2022 – 02:42:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Cecily Colloby
Sent	2/4/2022 2:42:26 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Cecily Colloby

This email was sent by Cecily Colloby via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Cecily provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Cecily Colloby at *****.

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Colwell, Lynda – Wednesday, 09 February 2022 – 18:12:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Lynda Colwell
Sent	2/9/2022 6:12:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Lynda Colwell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lynda provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lynda Colwell at *****.

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Comino-Ewen, Yanni – Wednesday, 09 February 2022 – 07:20:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Yanni Comino-Ewen
Sent	2/9/2022 7:20:15 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Yanni Comino-Ewen
Netley, South Australia, 5037, Australia

This email was sent by Yanni Comino-Ewen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Yanni provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Yanni Comino-Ewen at *****.

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Compen, Emma – Thursday, 03 February 2022 – 19:08:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Emma Compen
Sent	2/3/2022 7:08:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Emma Compen
Rum Jungle, Northern Territory, 0822, Australia

This email was sent by Emma Compen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Emma provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Emma Compen at *****.

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Conje, Barbara – Wednesday, 02 February 2022 – 09:42:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Barbara Conje
Sent	2/2/2022 9:42:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Barbara Conje

This email was sent by Barbara Conje via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Barbara provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Barbara Conje at *****.

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Connolly, Niall – Thursday, 10 February 2022 – 16:45:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Niall Connolly
Sent	2/10/2022 4:45:48 PM

As a former Territory resident I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes - and the Northern Land Council and their lawyers are complicit in this failure. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Niall Connolly via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Niall provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Niall Connolly at *****.

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Conroy, Bodil – Wednesday, 02 February 2022 – 17:10:20

Subject	Objection to Origin EMP for EP 98 & 76
From	Bodil Conroy
Sent	2/2/2022 5:10:20 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bodil Conroy

This email was sent by Bodil Conroy via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Bodil provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Bodil Conroy at *****.

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Cook, Karen – Friday, 04 February 2022 – 12:40:05

Subject	Objection to Origin EMP for EP 98 & 76
From	Karen Cook
Sent	2/4/2022 12:40:05 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
karen Cook

This email was sent by Karen Cook via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Karen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Karen Cook at *****.

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Cooper, Sarah – Wednesday, 09 February 2022 – 06:33:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Sarah Cooper
Sent	2/9/2022 6:33:36 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sarah Cooper
Rum Jungle, Northern Territory, 0822, Australia

This email was sent by Sarah Cooper via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sarah provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sarah Cooper at *****.

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Corcoran, June – Wednesday, 09 February 2022 – 08:13:50

Subject	Objection to Origin EMP for EP 98 & 76
From	June Corcoran
Sent	2/9/2022 8:13:50 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
June Corcoran
Montrose, Victoria, 3765, Australia

This email was sent by June Corcoran via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however June provided an email address (*****) which we included in the REPLY-TO field.

Please reply to June Corcoran at *****.

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Cossar, Reece – Wednesday, 02 February 2022 – 10:27:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Reece Cossar
Sent	2/2/2022 10:27:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Reece Cossar
White Gums, Northern Territory, 0870, Australia

This email was sent by Reece Cossar via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Reece provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Reece Cossar at *****.

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Couto, Chris – Thursday, 03 February 2022 – 21:08:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Chris Couto
Sent	2/3/2022 9:08:48 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Chris Couto
Moonlight Flat, Victoria, 3450, Australia

This email was sent by Chris Couto via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Chris provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Chris Couto at *****.

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Couttie, Anna – Thursday, 03 February 2022 – 10:06:00

Subject	Objection to Origin EMP for EP 98 & 76 Do Not Frack
From	Anna Couttie
Sent	2/3/2022 10:06:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

I lived in the territory for 20 years and understand the importance of the natural waterways and indigenous people.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anna Couttie
Heathmere, Victoria, 3305, Australia

This email was sent by Anna Couttie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anna Couttie at *****.

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Craddock, Fiona – Wednesday, 09 February 2022 – 05:07:21

Subject	Objection to Origin EMP for EP 98 & 76
From	Fiona Craddock
Sent	2/9/2022 5:07:21 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling, this is not a sustainable practice
- Create large open water storages full of toxic wastewater with long term environmental implications
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions. This does not fit with a National plan to reduce emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment which presents long term impacts

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Fiona Craddock

This email was sent by Fiona Craddock via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Fiona provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Fiona Craddock at *****.

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Crebert, Ben – Thursday, 10 February 2022 – 19:07:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Ben Crebert
Sent	2/10/2022 7:07:30 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Ben Crebert via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ben provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ben Crebert at *****.

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Croft, Elizabeth – Thursday, 10 February 2022 – 20:50:58

Subject	Objection to Origin EMP for EP 98 & 76
From	Elizabeth Croft
Sent	2/10/2022 8:50:58 PM

I am writing to support the Traditional Owners and object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Elizabeth Croft via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Elizabeth provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Elizabeth Croft at *****.

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Crosby, Naomi – Wednesday, 09 February 2022 – 11:51:49

Subject	Objection to Origin EMP for EP 98 & 76
From	Naomi Crosby
Sent	2/9/2022 11:51:49 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Naomi Crosby
Shenton Park, Western Australia, 6008, Australia

This email was sent by Naomi Crosby via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Naomi provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Naomi Crosby at *****.

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Cullinan, Annemarie – Wednesday, 02 February 2022 –
08:02:16

Subject	Objection to Origin EMP for EP 98 & 76
From	Annemarie Cullinan
Sent	2/2/2022 8:02:16 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

The potential damage by this exploration will affect my future, my children's future and for generations

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Annemarie Cullinan
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Annemarie Cullinan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Annemarie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Annemarie Cullinan at *****.

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Cummings, Simon – Wednesday, 09 February 2022 – 14:26:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Simon Cummings
Sent	2/9/2022 2:26:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Simon Cummings

This email was sent by Simon Cummings via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Simon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Simon Cummings at *****.

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Czerniak, Anthony – Wednesday, 02 February 2022 – 12:42:02

Subject	Objection to Origin EMP for EP 98 & 76
From	Anthony Czerniak
Sent	2/2/2022 12:42:02 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anthony Czerniak

This email was sent by Anthony Czerniak via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anthony provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anthony Czerniak at *****.

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D'Orazio, Marc – Wednesday, 09 February 2022 – 09:27:27

Subject	Objection to Origin EMP for EP 98 & 76
From	Marc D'Orazio
Sent	2/9/2022 9:27:27 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Marc D'Orazio via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Marc provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Marc D'Orazio at *****.

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Deane, Ron – Friday, 04 February 2022 – 12:05:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Ron Deane
Sent	2/4/2022 12:05:36 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Ron Deane via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ron provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ron Deane at *****.

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Delgado, Marianela – Wednesday, 09 February 2022 –
12:56:17

Subject	Objection to Origin EMP for EP 98 & 76
From	Marianela Delgado
Sent	2/9/2022 12:56:17 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Marianela Delgado
Cocoroc, Victoria, 3030, Australia

This email was sent by Marianela Delgado via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Marianela provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Marianela Delgado at *****.

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Denner, Shon – Wednesday, 02 February 2022 – 01:58:56

Subject	Support for Origin EMP for EP 98 & 76
From	Shon Denner
Sent	2/2/2022 1:58:56 AM

I am writing because I Support the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Please approve the Environmental Management Plan.

I have no concerns.

Please accept this submission and approve the grant of this EMP.

Yours sincerely,

Shon Denner

Mitchell, Northern Territory, 0832, Australia

This email was sent by Shon Denner via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Shon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Shon Denner at *****.

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Devery, Chantelle – Thursday, 10 February 2022 – 21:22:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Chantelle Devery
Sent	2/10/2022 9:22:26 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Chantelle Devery via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Chantelle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Chantelle Devery at *****.

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Dickson, Gregory – Wednesday, 09 February 2022 – 09:23:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Gregory Dickson
Sent	2/9/2022 9:23:52 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gregory Dickson
Northern Territory, 0852, Australia

This email was sent by Gregory Dickson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gregory provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gregory Dickson at *****.

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Dijk, Ian – Saturday, 05 February 2022 – 11:54:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Ian Van Dijk
Sent	2/5/2022 11:54:22 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ian van Dijk

This email was sent by Ian van Dijk via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ian van Dijk at *****.

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Dixon, Peter – Tuesday, 01 February 2022 – 20:45:38

Subject	Objection to Origin EMP for EP 98 & 76
From	Peter Dixon
Sent	2/1/2022 8:45:38 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am especially concerned about the many risks the proposal poses to the environment, including the risks this project adds to those of other threatening processes. These risks have not been properly addressed.

I am also concerned that the plan will:

- Require too much water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases,
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Peter Dixon

This email was sent by Peter Dixon via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Peter provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Peter Dixon at *****.

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Doolette, Maryann – Sunday, 06 February 2022 – 12:49:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Maryann Doolette
Sent	2/6/2022 12:49:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Maryann Doolette

This email was sent by Maryann Doolette via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Maryann provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Maryann Doolette at *****.

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Doyle, Jorgen – Tuesday, 08 February 2022 – 15:24:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Jorgen Doyle
Sent	2/8/2022 3:24:26 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jorgen Doyle

This email was sent by Jorgen Doyle via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jorgen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jorgen Doyle at *****.

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DUDMAN, MICHELLE – Thursday, 03 February 2022 –
16:04:52

Subject	Objection to Origin EMP for EP 98 & 76
From	MICHELLE DUDMAN
Sent	2/3/2022 4:04:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
MICHELLE Dudman
Adelaide, South Australia, 5000, Australia

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Please reply to MICHELLE DUDMAN at *****,

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Duigu, Gabrielle – Tuesday, 08 February 2022 – 12:35:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Gabrielle Duigu
Sent	2/8/2022 12:35:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gabrielle Duigu
Cammeray, New South Wales, 2062, Australia

This email was sent by Gabrielle Duigu via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gabrielle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gabrielle Duigu at *****.

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Dunbar, Rayna – Wednesday, 02 February 2022 – 14:44:27

Subject	Objection to Origin EMP for EP 98 & 76
From	Rayna Dunbar
Sent	2/2/2022 2:44:27 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rayna Dunbar

This email was sent by Rayna Dunbar via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rayna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rayna Dunbar at *****.

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Dunn, Alisa – Friday, 04 February 2022 – 04:20:24

Subject	Objection to Origin EMP for EP 98 & 76
From	Alisa Dunn
Sent	2/4/2022 4:20:24 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Alisa Dunn
Australia

This email was sent by Alisa Dunn via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Alisa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Alisa Dunn at *****.

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Dunn, Emerald – Wednesday, 09 February 2022 – 09:58:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Emerald Dunn
Sent	2/9/2022 9:58:33 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Emerald Dunn via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Emerald provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Emerald Dunn at *****.

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Dunn, Karen – Wednesday, 09 February 2022 – 08:18:56

Subject	Objection to Origin EMP for EP 98 & 76
From	Karen Dunn
Sent	2/9/2022 8:18:56 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Karen Dunn
Kilsyth, Victoria, 3137, Australia

This email was sent by Karen Dunn via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Karen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Karen Dunn at *****.

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Dunstan, Rachael – Wednesday, 02 February 2022 – 14:21:10

Subject	Don't frack the Territory! Don't frack anywhere
From	Rachael Dunstan
Sent	2/2/2022 2:21:10 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rachael Dunstan

This email was sent by Rachael Dunstan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rachael provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rachael Dunstan at *****.

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Eales, Sharon – Wednesday, 09 February 2022 – 10:16:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Sharon Eales
Sent	2/9/2022 10:16:22 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sharon Eales
Roleystone, Western Australia, 6111, Australia

This email was sent by Sharon Eales via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

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Eather, Brian – Thursday, 03 February 2022 – 16:11:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Brian Eather
Sent	2/3/2022 4:11:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Brian Eather

This email was sent by Brian Eather via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Brian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Brian Eather at *****.

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Edyvane, Karen – Tuesday, 01 February 2022 – 18:37:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Karen Edyvane
Sent	2/1/2022 6:37:32 PM

I am a professional environmental scientist, long-term resident of the Northern Territory - and also, a member of the NT Labor Party.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians. The recommendations from the Pepper Inquiry were very clear - all emissions must be offset in full. It is very clear that with an estimated \$20B required to offset emissions from gas development in the NT - gas developments are simply not economical.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

With the current major risks of flooding in the region (as we are experiencing now in January 2022) - open water storages of toxic wastewater are simply not feasible.

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Karen Edyvane

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however Karen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Karen Edyvane at *****.

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Ekin, Hannah – Thursday, 03 February 2022 – 14:23:05

Subject	Objection to Origin EMP for EP 98 & 76
From	Hannah Ekin
Sent	2/3/2022 2:23:05 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Hannah Ekin

This email was sent by Hannah Ekin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Hannah provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Hannah Ekin at *****.

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ELLIOTT, Barbara – Thursday, 03 February 2022 – 14:21:41

Subject	Objection to Origin EMP for EP 98 & 76
From	Barbara ELLIOTT
Sent	2/3/2022 2:21:41 PM

I strongly object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians or other Australians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Barbara ELLIOTT

This email was sent by Barbara ELLIOTT via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Barbara provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Barbara ELLIOTT at *****.

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Elliott, Ray – Wednesday, 09 February 2022 – 10:14:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Ray Elliott
Sent	2/9/2022 10:14:53 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ray Elliott
Port Davis, South Australia, 5540, Australia

This email was sent by Ray Elliott via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ray provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ray Elliott at *****.

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Emerson, Kate – Wednesday, 09 February 2022 – 08:58:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Kate Emerson
Sent	2/9/2022 8:58:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Kate Emerson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kate provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kate Emerson at *****.

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Eulalie, Brennan – Thursday, 10 February 2022 – 17:39:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Brennan Eulalie
Sent	2/10/2022 5:39:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Brennan Eulalie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Brennan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Brennan Eulalie at *****.

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Evans, Brett – Wednesday, 09 February 2022 – 12:27:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Brett Evans
Sent	2/9/2022 12:27:40 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Brett Evans via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Brett provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Brett Evans at *****.

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Fagence, Kerry – Wednesday, 09 February 2022 – 08:04:01

Subject	Objection to Origin EMP for EP 98 & 76
From	Kerry Fagence
Sent	2/9/2022 8:04:01 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Kerry Fagence via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kerry provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kerry Fagence at *****.

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Falls, Lynette – Wednesday, 09 February 2022 – 07:56:47

Subject	Objection to Origin EMP for EP 98 & 76
From	Lynette Falls
Sent	2/9/2022 7:56:47 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by lynette Falls via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however lynette provided an email address (*****) which we included in the REPLY-TO field.

Please reply to lynette Falls at *****.

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Farnell, Michael – Tuesday, 01 February 2022 – 19:43:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Michael Farnell
Sent	2/1/2022 7:43:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Michael Farnell

This email was sent by Michael Farnell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Michael provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Michael Farnell at *****.

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Fawkner, Penny – Thursday, 03 February 2022 – 16:11:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Penny Fawkner
Sent	2/3/2022 4:11:26 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Penny Fawkner
Emungalan, Northern Territory, 0850, Australia

This email was sent by Penny Fawkner via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Penny provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Penny Fawkner at *****.

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Fessler, Yvonne – Wednesday, 09 February 2022 – 10:12:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Yvonne Fessler
Sent	2/9/2022 10:12:25 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Yvonne Fessler via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Yvonne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Yvonne Fessler at *****.

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Field, Trevor – Thursday, 03 February 2022 – 16:36:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Trevor Field
Sent	2/3/2022 4:36:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Trevor Field

This email was sent by Trevor Field via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Trevor provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Trevor Field at *****.

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Firley, Bel – Thursday, 10 February 2022 – 16:40:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Bel Firley
Sent	2/10/2022 4:40:36 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bel Firley
Darwin River, Northern Territory, 0841, Australia

This email was sent by Bel Firley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Bel provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Bel Firley at *****.

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Firth, Letitia – Tuesday, 08 February 2022 – 18:42:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Letitia Firth
Sent	2/8/2022 6:42:30 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Letitia Firth
White Gums, Northern Territory, 0870, Australia

This email was sent by Letitia Firth via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Letitia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Letitia Firth at *****.

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Fitzgibbon, Jenny – Wednesday, 09 February 2022 – 14:49:51

Subject	Objection to Origin EMP for EP 98 & 76
From	Jenny Fitzgibbon
Sent	2/9/2022 2:49:51 PM

I am writing to strongly object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians, or the rest of the country, but particularly the locals.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that this inadequate plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jenny Fitzgibbon
North Maleny, Queensland, 4552, Australia

This email was sent by Jenny Fitzgibbon via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jenny provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jenny Fitzgibbon at *****.

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Fletcher, Jillian – Wednesday, 09 February 2022 – 17:53:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Jillian Fletcher
Sent	2/9/2022 5:53:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
jillian Fletcher
Sugarloaf Creek, Victoria, 3658, Australia

This email was sent by jillian Fletcher via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however jillian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to jillian Fletcher at *****.

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Forday, Usan – Saturday, 05 February 2022 – 11:54:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Usan Forday
Sent	2/5/2022 11:54:19 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
usan Forday
The Keppels, Queensland, 4700, Australia

This email was sent by usan Forday via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however usan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to usan Forday at *****.

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Forest, Thierry – Friday, 04 February 2022 – 14:20:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Thierry Forest
Sent	2/4/2022 2:20:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Thierry Forest

This email was sent by Thierry Forest via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Thierry provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Thierry Forest at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Forsyth, David – Thursday, 10 February 2022 – 18:19:17

Subject	Objection to Origin EMP for EP 98 & 76
From	David Forsyth
Sent	2/10/2022 6:19:17 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

During the DAPL protests in US I communicated with several people who had firsthand experience of fracking. I learned from people in Flint Michigan what it is like to have their water contaminated. There are no safeguards stringent enough to protect our land and water from fracking. This must not happen!

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
David Forsyth
Nightcliff, Northern Territory, 0810, Australia

This email was sent by David Forsyth via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however David provided an email address (*****) which we included in the REPLY-TO field.

Please reply to David Forsyth at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Franklin, Coral – Friday, 04 February 2022 – 11:16:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Coral Franklin
Sent	2/4/2022 11:16:09 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Coral Franklin
Tennant Creek, Northern Territory, 0860, Australia

This email was sent by Coral Franklin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Coral provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Coral Franklin at *****.

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Fraser, Julie – Thursday, 10 February 2022 – 16:47:08

Subject	ASU submission Beetaloo Fracking
From	Julie Fraser
Sent	2/10/2022 4:47:08 PM

Dear Officer,

Please accept the Australian Services Union attached submission regarding the proposal by Origin Energy to open further wells in the Beetaloo Basin.

Regards Julie Fraser NT Organiser and Abbie Spencer SA-NT Secretary.

Julie Fraser- NT Organiser

Australian Services Union - SA + NT Branch

Pronouns: she/her

***** 1322 | ***** www.asusant.com

Support our members at SA Power Networks: <https://www.sapowerworkers.com.au/>

Not yet a member? Join your ASU today: <https://www.asu.asn.au/asujoin>

The Australian Services Union acknowledges that the ASU offices are on the traditional lands of the Kaurna people and the Larrakia people.

We pay our respects to Elders past, present and emerging.

This is Aboriginal land – always was, always will be – and we recognise that sovereignty was never ceded.

We support the right of First Nations people to self-determination.

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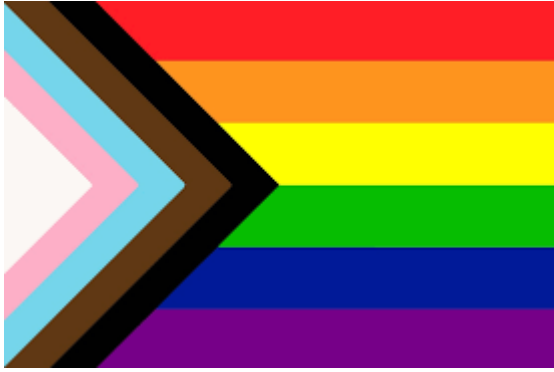
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Attached Documents





10th February

Officer
DENR
Petroleum Operations Unit
Darwin
Northern Territory



By your side

VIA EMAIL: origin.ep98&76@nt.gov.au

Dear Officer,

The Australian Services Union opposes fracking, and we would like to raise our continued concern and objection to Origin Energy's Environmental Management Plan to drill and frack four new gas exploration wells in the Roper region in EPs 98 & 76 that are currently on public exhibition. It is clear Origin does not have a social licence to operate from Territorians. Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

Allowing Origin to go on and develop production gas fields would cause irreparable damage to water, land, and our climate just so Origin can make quick profits off an industry that has no future as the world shifts away from fossil fuels. Origin Energy's social license to operate is still being opposed by Territory communities. Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes.

These concerns include:

Origin's plans will create up to 273,030 tonnes of avoidable greenhouse gas emissions, completely incompatible with the Territory's target of net zero emissions by 2050. This amounts to 1.3% of the Territory's entire 2019 emissions - just for one company's early exploration fracking plans. A full-scale fracking industry in the Beetaloo would result in at least 10 to 15 million tonnes of CO₂-e of direct and indirect emissions, let alone the emissions from burning the gas.

Origin's plans will use at least 220 million litres of water despite the absence of a Water Allocation Plan and put valuable groundwater at risk from fracking. The fracking proposal risks chemical spills, toxic wastewater overflowing from open ponds, and the contamination of underground water resources. The proposal puts water resources at risk from pollution and unsustainable extraction, and also given the Fracking Inquiry recommendations are still not implemented, there is no Water Allocation Plan and there is no Safe Drinking Water Act.

Origin's fracking plans will threaten key species and take place in Lake Wood catchment. Origin plans to use open ponds to store highly toxic wastewater pose a risk to wildlife, especially birds like the endangered Gouldian Finch and migratory species. Aquifers underlying the proposed fracking sites form part of the catchment of the beloved and ecologically significant Lake Woods conservation area.

Yours sincerely

Abbie Spencer
SECRETARY
Australian Services Union – SA + NT Branch

Gerasimon, Pedro – Wednesday, 09 February 2022 – 16:40:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Pedro Gerasimon
Sent	2/9/2022 4:40:35 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Peter Gerasimon

This email was sent by Pedro Gerasimon via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Pedro provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Pedro Gerasimon at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Gill, Lia – Tuesday, 08 February 2022 – 14:54:27

Subject	Objection to Origin EMP for EP 98 & 76
From	Lia Gill
Sent	2/8/2022 2:54:27 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Lia Gill
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Lia Gill via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lia Gill at *****.

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GILLESPIE, Sylvia – Wednesday, 09 February 2022 – 08:23:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Sylvia GILLESPIE
Sent	2/9/2022 8:23:23 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sylvia GILLESPIE

This email was sent by Sylvia GILLESPIE via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sylvia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sylvia GILLESPIE at *****.

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Gonelli, Sabine – Monday, 07 February 2022 – 12:49:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Sabine Gonelli
Sent	2/7/2022 12:49:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sabine Gonelli
Bakewell, Northern Territory, 0832, Australia

This email was sent by Sabine Gonelli via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sabine provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sabine Gonelli at *****.

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Govan, Leisa – Thursday, 03 February 2022 – 14:33:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Leisa Govan
Sent	2/3/2022 2:33:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

The NT government should be resourcing renewable energy industry and not environmentally harmful fracking for gas. Our vital water should be used for regeneration of natural spaces not used to become toxic waste to further pollute our fragile ecosystems.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
leisa govan
Malak, Northern Territory, 0812, Australia

This email was sent by leisa govan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however leisa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to leisa govan at *****.

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Goyen, Aaron – Thursday, 10 February 2022 – 21:30:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Aaron Goyen
Sent	2/10/2022 9:30:14 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Aaron Goyen
Cremorne, Tasmania, 7024, Australia

This email was sent by Aaron Goyen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Aaron provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Aaron Goyen at *****.

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Gray, Helen – Tuesday, 08 February 2022 – 15:59:11

Subject	Objection to Origin EMP for EP 98 & 76
From	Helen Gray
Sent	2/8/2022 3:59:11 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Helen Gray via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Helen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Helen Gray at *****.

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Greer, Sharon – Wednesday, 09 February 2022 – 15:54:18

Subject	Objection to Origin EMP for EP 98 & 76- This area is the HEART of our country!
From	Sharon Greer
Sent	2/9/2022 3:54:18 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- ** Clear vegetation and threaten the Gouldian Finch
- ** Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

We seriously need to respect and honour our land and the areas that it feeds across such a broad area.

Yours sincerely,
Sharon Greer
Griffin, Queensland, 4503, Australia

This email was sent by Sharon Greer via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sharon Greer at *****.

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Griffin, Micky – Wednesday, 09 February 2022 – 09:59:49

Subject	Objection to Origin EMP for EP 98 & 76
From	Micky Griffin
Sent	2/9/2022 9:59:49 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Micky Griffin
Saint Lucia, Queensland, 4067, Australia

This email was sent by Micky Griffin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Micky provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Micky Griffin at *****.

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Grose, Richard – Wednesday, 09 February 2022 – 19:46:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Richard Grose
Sent	2/9/2022 7:46:22 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Water is life! We cannot carry on destroying our water tables, rivers and natural environment in the pursuit of temporary dollars.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Richard Grose
White Gums, Northern Territory, 0870, Australia

This email was sent by Richard Grose via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Richard provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Richard Grose at *****.

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Gunning, Marissa – Tuesday, 08 February 2022 – 09:48:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Marissa Gunning
Sent	2/8/2022 9:48:43 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Marissa Gunning
Clifton, New South Wales, 2515, Australia

This email was sent by Marissa Gunning via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Marissa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Marissa Gunning at *****.

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Hage, Kay – Friday, 04 February 2022 – 09:32:46

Subject	Objection to Origin EMP for EP 98 & 76
From	Kay Hage
Sent	2/4/2022 9:32:46 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Kay Hage via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kay provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kay Hage at *****.

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Hall, David – Friday, 04 February 2022 – 15:21:42

Subject	Objection to Origin EMP for EP 98 & 76
From	David Hall
Sent	2/4/2022 3:21:42 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
david hall
Ashgrove, Queensland, 4060, Australia

This email was sent by david hall via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however david provided an email address (*****) which we included in the REPLY-TO field.

Please reply to david hall at *****.

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Halter, Aileen – Wednesday, 09 February 2022 – 10:26:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Aileen Halter
Sent	2/9/2022 10:26:04 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Aileen Halter via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Aileen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Aileen Halter at *****,

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Hanasz, Paul – Thursday, 03 February 2022 – 16:08:11

Subject	... Objection to Origin EMP for EP 98 & 76...
From	Paul Hanasz
Sent	2/3/2022 4:08:11 PM

Dear NT Government,

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Paul Hanasz

Blacktown, New South Wales, 2148, Australia

This email was sent by Paul Hanasz via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Paul provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Paul Hanasz at *****.

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Hanna, Jenni – Thursday, 03 February 2022 – 13:20:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Jenni Hanna
Sent	2/3/2022 1:20:43 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Stop ruining the land.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jenni Hanna

This email was sent by Jenni Hanna via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jenni provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jenni Hanna at *****.

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Hansen, Kathleen – Saturday, 05 February 2022 – 13:29:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Kathleen Hansen
Sent	2/5/2022 1:29:23 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kathleen Hansen
Bogie, Queensland, 4805, Australia

This email was sent by Kathleen Hansen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kathleen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kathleen Hansen at *****.

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HANSEN, STEPHEN – Thursday, 03 February 2022 – 15:11:02

Subject	Objection to Origin EMP for EP 98 & 76
From	STEPHEN HANSEN
Sent	2/3/2022 3:11:02 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
STEPHEN HANSEN

This email was sent by STEPHEN HANSEN via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however STEPHEN provided an email address (*****) which we included in the REPLY-TO field.

Please reply to STEPHEN HANSEN at *****.

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Harrison, Rowena – Wednesday, 09 February 2022 – 13:31:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Rowena Harrison
Sent	2/9/2022 1:31:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rowena Harrison
Brighton North, Victoria, 3186, Australia

This email was sent by Rowena Harrison via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rowena provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rowena Harrison at *****.

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Harte, Patrick – Thursday, 10 February 2022 – 20:14:18

Subject	Objection to Origin EMP for EP 98 & 76
From	Patrick Harte
Sent	2/10/2022 8:14:18 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Patrick Harte

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Please reply to Patrick Harte at *****.

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Hartley, Kay – Friday, 04 February 2022 – 12:38:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Kay Hartley
Sent	2/4/2022 12:38:25 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear that Territorians have not given Origin a social licence to operate.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am very concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process will be undertaken that fully meets their hopes for participating in decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kay Hartley
White Gums, Northern Territory, 0870, Australia

This email was sent by Kay Hartley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kay provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kay Hartley at *****.

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Harvey, Nona – Wednesday, 09 February 2022 – 20:41:55

Subject	Objection to Origin EMP for EP 98 & 76
From	Nona Harvey
Sent	2/9/2022 8:41:55 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Nona Harvey via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Nona provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Nona Harvey at *****.

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Hattem, Simone – Thursday, 10 February 2022 – 20:40:04

Subject	My strong objection to Origins plans
From	Simone Van Hattem
Sent	2/10/2022 8:40:04 PM

I am writing to you to object to the Origin Energy plan for the four exploration wells in permits 98 & 76.

In my view, having seen the protests, media articles and past polling and other action, Origin does not have a social licence to operate. I have many friends in the Territory, including Traditional Owners, Pastoralists and other folks,

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science.

I am particularly concerned about the many risks the proposal poses to the environment, like water air climate and threatened flora and fauna.

Part of it is the cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also know that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making. Self determination is key.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Simone van Hattem
Frenchman Bay, Western Australia, 6330, Australia

This email was sent by Simone van Hattem via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Simone provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Simone van Hattem at *****.

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Havey, Daniel – Thursday, 03 February 2022 – 17:59:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Daniel Havey
Sent	2/3/2022 5:59:48 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Daniel Havey

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Please reply to Daniel Havey at *****.

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Haywood, Mal – Tuesday, 08 February 2022 – 09:50:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Mal Haywood
Sent	2/8/2022 9:50:15 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Mal Haywood

This email was sent by Mal Haywood via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mal provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mal Haywood at *****.

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Hazelton, Judith – Thursday, 03 February 2022 – 18:55:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Judith Hazelton
Sent	2/3/2022 6:55:19 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Judith Hazelton

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Please reply to Judith Hazelton at *****.

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Hecker, Neil – Sunday, 06 February 2022 – 12:49:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Neil Hecker
Sent	2/6/2022 12:49:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Neil Hecker
Bona Vista, Victoria, 3820, Australia

This email was sent by Neil Hecker via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Neil provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Neil Hecker at *****.

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Helen, Williams – Wednesday, 09 February 2022 – 07:57:05

Subject	Objection to Origin EMP for EP 98 & 76
From	Williams Helen
Sent	2/9/2022 7:57:05 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Williams Helen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Williams provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Williams Helen at *****.

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Hennessy, Anna – Wednesday, 09 February 2022 – 06:53:34

Subject	Objection to Origin EMP for EP 98 & 76
From	Anna Hennessy
Sent	2/9/2022 6:53:34 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anna Hennessy
Seaton, South Australia, 5023, Australia

This email was sent by Anna Hennessy via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anna Hennessy at *****.

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Herron, Alana – Wednesday, 09 February 2022 – 13:55:49

Subject	first peoples cultures and livelihood should be the aim of all b first people and farmers/graziers need greaterneed not greed
From	Alana Herron
Sent	2/9/2022 1:55:49 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Alana Herron

This email was sent by Alana Herron via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Alana provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Alana Herron at *****.

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Hhhhhhh, Thea – Wednesday, 09 February 2022 – 17:47:10

Subject	Objection to Origin EMP for EP 98 & 76
From	Thea Hhhhhhh
Sent	2/9/2022 5:47:10 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Thea Hhhhhhh

This email was sent by Thea Hhhhhhh via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Thea provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Thea Hhhhhhh at *****.

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Hickey, Kelly – Thursday, 03 February 2022 – 17:27:57

Subject	Objection to Further Origin Developments
From	Kelly Lee Hickey
Sent	2/3/2022 5:27:57 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition

Like many Territorians I have had extreme concerns about Fracking in the Northern Territory. I am worried about the impacts on the health of our land and communities. I joined many fellow Territorians in raising my concerns during the Independent inquiry into fracking, and was saddened when the NT Government lifted the moratorium on fracking.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I note that these concerns have continued since the Inquiry and have been raised by Traditional owners in the media and with shareholders over the past few years.

I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kelly Lee Hickey

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*****, however Kelly Lee provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kelly Lee Hickey at *****.

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Higgins, Tina – Tuesday, 01 February 2022 – 19:14:16

Subject	Objection to Origin EMP for EP 98 & 76
From	Tina Bernardi Higgins
Sent	2/1/2022 7:14:16 PM

Good morning

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

I do understand that we always source our information according to our bias, and I do respect that different opinions exist, co exist and collide. However, I sincerely ask you to consider the arguments below and to really assess interest, profit, vulnerability of land, communities, sacred sites, important water bodies, marine life, indigenous rights etc.

Do you refer to the indigenous owners of the land when you meet, plan, hold conferences etc? Unless you do not mean what you say in regards of paying respect to indigenous culture past, present and emerging, it must be a difficult situation to verbally pay respect when actions fail to follow through.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Tina Bernardi Higgins

Nightcliff, Northern Territory, 0810, Australia

This email was sent by Tina Bernardi Higgins via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tina provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tina Bernardi Higgins at *****.

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Hines, Narelle – Wednesday, 09 February 2022 – 09:20:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Narelle Hines
Sent	2/9/2022 9:20:35 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Narelle Hines
De Grey, Western Australia, 6722, Australia

This email was sent by Narelle Hines via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Narelle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Narelle Hines at *****.

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Hocking, Bruce – Thursday, 03 February 2022 – 16:47:42

Subject	Objection to Origin EMP for EP 98 & 76
From	Bruce Hocking
Sent	2/3/2022 4:47:42 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

I have worked consistently in the Top End of the NT and request that you reject the Environmental Management Plan because of the risks involved, especially to artesian water, and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bruce Hocking

This email was sent by Bruce Hocking via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Bruce provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Bruce Hocking at *****.

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Holden, Peter – Wednesday, 09 February 2022 – 14:11:34

Subject	Objection to Origin EMP for EP 98 & 76
From	Peter Holden
Sent	2/9/2022 2:11:34 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Peter Holden via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Peter provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Peter Holden at *****.

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Holding, Al – Friday, 04 February 2022 – 09:57:45

Subject	No fracking it's a travesty to our water resources Origin EMP for EP 98 & 76
From	Al Holding
Sent	2/4/2022 9:57:45 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Al Holding via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Al provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Al Holding at *****.

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Holmden, Sue – Wednesday, 09 February 2022 – 22:58:41

Subject	Objection to Origin EMP for EP 98 & 76
From	Sue Holmden
Sent	2/9/2022 10:58:41 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Susan Holmden

This email was sent by Sue Holmden via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sue provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sue Holmden at *****.

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Holt, Barry – Thursday, 03 February 2022 – 18:36:47

Subject	Objection to Origin EMP for EP 98 & 76
From	Barry Holt
Sent	2/3/2022 6:36:47 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Barry Holt via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Barry provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Barry Holt at *****.

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Hooler, Des – Wednesday, 09 February 2022 – 07:14:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Des Hooler
Sent	2/9/2022 7:14:14 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Des Hooler
Valla Beach, New South Wales, 2448, Australia

This email was sent by Des Hooler via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Des provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Des Hooler at *****.

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Hughes, Glenn – Tuesday, 01 February 2022 – 23:11:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Glenn Hughes
Sent	2/1/2022 11:11:48 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Glenn Hughes. 2/2/22

This email was sent by Glenn Hughes via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Glenn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Glenn Hughes at *****.

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Humphris, Nick – Tuesday, 08 February 2022 – 14:23:34

Subject	Objection to Origin EMP for EP 98 & 76
From	Nick Humphris
Sent	2/8/2022 2:23:34 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Nick Humphris

This email was sent by Nick Humphris via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Nick provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Nick Humphris at *****.

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Hunter, Robert – Wednesday, 09 February 2022 – 18:46:58

Subject	Objection to Origin EMP for EP 98 & 76
From	Robert Hunter
Sent	2/9/2022 6:46:58 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Robert Hunter via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Robert provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Robert Hunter at *****.

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Hynson, Ilms – Sunday, 06 February 2022 – 17:35:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Ilms Hynson
Sent	2/6/2022 5:35:48 PM

To whom it concern,

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Ilma Hynson

New Farm?Queensland, 4005, Australia

This email was sent by Ilms Hynson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ilms provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ilms Hynson at *****.

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Igescu, Josiah – Thursday, 10 February 2022 – 18:33:34

Subject	Objection to Origin EMP for EP 98 & 76
From	Josiah Igescu
Sent	2/10/2022 6:33:34 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Josiah Igescu via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Josiah provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Josiah Igescu at *****.

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Jablonka, John – Sunday, 06 February 2022 – 13:18:09

Subject	Objection to Origin EMP for EP 98 & 76
From	John Jablonka
Sent	2/6/2022 1:18:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
John Jablonka

This email was sent by John Jablonka via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however John provided an email address (*****) which we included in the REPLY-TO field.

Please reply to John Jablonka at *****.

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Jackson, Julie – Thursday, 10 February 2022 – 20:47:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Julie Jackson
Sent	2/10/2022 8:47:26 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Julie Jackson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Julie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Julie Jackson at *****.

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Jacobs, Tanya – Thursday, 03 February 2022 – 17:13:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Tanya Jacobs
Sent	2/3/2022 5:13:33 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Tanya Jacobs

This email was sent by Tanya Jacobs via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tanya provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tanya Jacobs at *****.

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Jacqueline, O'brien – Wednesday, 09 February 2022 –
08:36:48

Subject	Objection to Origin EMP for EP 98 & 76
From	O'brien Jacqueline
Sent	2/9/2022 8:36:48 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by O'Brien Jacqueline via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however O'Brien provided an email address (*****) which we included in the REPLY-TO field.

Please reply to O'Brien Jacqueline at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Jamieson, Graeme – Wednesday, 09 February 2022 – 13:33:44

Subject	Objection to Origin EMP for EP 98 & 76
From	Graeme Jamieson
Sent	2/9/2022 1:33:44 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Graeme Jamieson
Williamstown, Victoria, 3016, Australia

This email was sent by Graeme Jamieson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Graeme provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Graeme Jamieson at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Jarvis, Elizabeth – Wednesday, 09 February 2022 – 07:31:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Elizabeth Jarvis
Sent	2/9/2022 7:31:14 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Elizabeth Jarvis

This email was sent by Elizabeth Jarvis via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Elizabeth provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Elizabeth Jarvis at *****.

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Jennings, Heidi – Wednesday, 09 February 2022 – 13:32:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Heidi Jennings
Sent	2/9/2022 1:32:14 PM

To whom it may concern.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science.

It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

Our unique environment is being altered and is at risk.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater.
- Pepper recommendation #7.12 has been ignored.
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch and other native species.
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes.

I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Heidi Jennings

Berry Springs, Northern Territory, 0838, Australia

This email was sent by Heidi Jennings via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Heidi provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Heidi Jennings at *****.

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Jensen, E – Thursday, 10 February 2022 – 04:55:32

Subject	Objection to Origin EMP for EP 98 & 76
From	E Jensen
Sent	2/10/2022 4:55:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by E jensen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however E provided an email address (*****) which we included in the REPLY-TO field.

Please reply to E jensen at *****.

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Jezewski, Katja – Thursday, 03 February 2022 – 20:11:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Katja Jezewski
Sent	2/3/2022 8:11:54 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Katja Jezewski

This email was sent by Katja Jezewski via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Katja provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Katja Jezewski at *****.

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Johnson, Anna – Thursday, 10 February 2022 – 13:22:50

Subject	Objection to Origin EMP for EP 98 & 76
From	Anna Johnson
Sent	2/10/2022 1:22:50 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anna Johnson
Currumbin Valley, Queensland, 4223, Australia

This email was sent by Anna Johnson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anna Johnson at *****.

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Johnson, Gabrielle – Thursday, 10 February 2022 – 18:02:16

Subject	Objection to Origin EMP for EP 98 & 76
From	Gabrielle Johnson
Sent	2/10/2022 6:02:16 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gabrielle Johnson
Darwin River, Northern Territory, 0841, Australia

This email was sent by Gabrielle Johnson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gabrielle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gabrielle Johnson at *****.

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Jones, Pete – Wednesday, 02 February 2022 – 02:03:08

Subject	Support for Origin EMP for EP 98 & 76
From	Pete Jones
Sent	2/2/2022 2:03:08 AM

I am writing because I Support the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Please approve the Environmental Management Plan.

I have no concerns.

Please accept this submission and approve the grant of this EMP.

Yours sincerely,

Pete

Mitchell, Northern Territory, 0832, Australia

This email was sent by Pete Jones via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Pete provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Pete Jones at *****.

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Kable, Vicki – Wednesday, 09 February 2022 – 09:34:19

Subject	Reject Origin plan to drill more wells in EP 98 & 76
From	Vicki Kable
Sent	2/9/2022 9:34:19 AM

Please reject Origin's Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

Although I am not a Territorian, as an Australian I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Vicki Kable via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Vicki provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Vicki Kable at *****.

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Kamps, Maria – Wednesday, 09 February 2022 – 22:39:18

Subject	Objection to Origin Fracking in the NT
From	Maria Kamps
Sent	2/9/2022 10:39:18 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Maria Kamps

This email was sent by Maria Kamps via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Maria provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Maria Kamps at *****.

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KARABATEAS, STATHIS – Wednesday, 09 February 2022 – 06:35:00

Subject	Objection to Origin EMP for EP 98 & 76
From	STATHIS KARABATEAS KARABATEAS
Sent	2/9/2022 6:35:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
STATHIS KARABATEAS KARABATEAS

This email was sent by STATHIS KARABATEAS KARABATEAS via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however STATHIS KARABATEAS provided an email address (*****) which we included in the REPLY-TO field.

Please reply to STATHIS KARABATEAS KARABATEAS at *****.

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Kendall, Mrs – Wednesday, 09 February 2022 – 07:53:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Mrs S J Kendall
Sent	2/9/2022 7:53:15 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Mrs s j Kendall via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mrs s j provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mrs s j Kendall at *****,

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Kent, Judyanne – Thursday, 03 February 2022 – 20:56:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Judyanne Kent
Sent	2/3/2022 8:56:13 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Judyanne Kent
Girraween, Northern Territory, 0836, Australia

This email was sent by Judyanne Kent via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Judyanne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Judyanne Kent at *****.

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Kenyon, Dawn – Thursday, 03 February 2022 – 21:15:39

Subject	Objection to Origin EMP for EP 98 & 76
From	Dawn Kenyon
Sent	2/3/2022 9:15:39 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
dawn kenyon

This email was sent by dawn kenyon via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however dawn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to dawn kenyon at *****.

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Kerslake, John – Thursday, 10 February 2022 – 20:42:03

Subject	Objection to Origin EMP for EP 98 & 76
From	John Kerslake
Sent	2/10/2022 8:42:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
John Kerslake

This email was sent by John Kerslake via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however John provided an email address (*****) which we included in the REPLY-TO field.

Please reply to John Kerslake at *****.

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Kesson, Cliff – Thursday, 10 February 2022 – 06:37:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Cliff Kesson
Sent	2/10/2022 6:37:54 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Cliff Kesson
West Bendigo, Victoria, 3550, Australia

This email was sent by Cliff Kesson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Cliff provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Cliff Kesson at *****.

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Kirkcaldy, Alice – Wednesday, 09 February 2022 – 15:46:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Alice Kirkcaldy
Sent	2/9/2022 3:46:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Alice Kirkcaldy via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Alice provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Alice Kirkcaldy at *****.

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Kite, Richard – Thursday, 03 February 2022 – 16:13:17

Subject	Objection to Origin EMP for EP 98 & 76
From	Richard Kite
Sent	2/3/2022 4:13:17 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Richard Kite

This email was sent by Richard Kite via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Richard provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Richard Kite at *****.

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Kneebone, Kym – Wednesday, 09 February 2022 – 08:14:57

Subject	Objection to Origin EMP for EP 98 & 76
From	Kym Kneebone
Sent	2/9/2022 8:14:57 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Kym Kneebone via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kym provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kym Kneebone at *****.

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Kougiou, Kostas – Wednesday, 09 February 2022 – 16:28:27

Subject	Objection to Origin EMP for EP 98 & 76
From	Kostas Kougiou
Sent	2/9/2022 4:28:27 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kostas Kougiou
Australia

This email was sent by Kostas Kougiou via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kostas provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kostas Kougiou at *****.

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Kraulis-Breen, Max – Tuesday, 01 February 2022 – 19:12:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Max Kraulis-Breen
Sent	2/1/2022 7:12:15 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Max Kraulis-Breen
Kings Park, Western Australia, 6005, Australia

This email was sent by Max Kraulis-Breen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Max provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Max Kraulis-Breen at *****.

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Kreiner, Dennis – Thursday, 03 February 2022 – 22:26:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Dennis Kreiner
Sent	2/3/2022 10:26:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Dennis Kreiner

This email was sent by Dennis Kreiner via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dennis provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dennis Kreiner at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Kupfer, Ursula – Thursday, 03 February 2022 – 17:51:03

Subject	Objection to Origin EMP for EP 98 & 76
From	Ursula Kupfer
Sent	2/3/2022 5:51:03 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Ursula Kupfer via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ursula provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ursula Kupfer at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Kyriacou, Sharon – Thursday, 03 February 2022 – 14:41:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Sharon Kyriacou
Sent	2/3/2022 2:41:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sharon Kyriacou
Girraween, Northern Territory, 0836, Australia

This email was sent by Sharon Kyriacou via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sharon Kyriacou at *****.

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Lawrence, Gaye – Wednesday, 09 February 2022 – 07:16:45

Subject	Objection to Origin EMP for EP 98 & 76
From	Gaye Lawrence
Sent	2/9/2022 7:16:45 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gaye Lawrence
Pine Creek, Northern Territory, 0847, Australia

This email was sent by Gaye Lawrence via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gaye provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gaye Lawrence at *****.

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Laws, Dan – Thursday, 03 February 2022 – 15:19:40

Subject	Concerns with regards to Origin's EMP for EP 98 & 76
From	Dan Laws
Sent	2/3/2022 3:19:40 PM

I am writing to express grave concerns and to object most vehemently to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Firstly, is the lack of consideration of the local, regional, state and national sentiment with regards to this proposal. It is clear Origin does not have a social licence to operate from Territorians, Australians or the global community.

Origin has done little research to allay the concerns of the community with regards to the science involved and the risks entailed. Their proposal addresses none of the issues raised by well informed researchers who have highlighted the point that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned that the company is using these EMP's to open the door for a mega expansion of fracking in the NT and the disastrous consequences this entails. These risks have not been properly addressed in the proposal.

The four proposed EMP's will require at least 220 million litres of water for fracking and drilling, create large open water storages full of toxic wastewater, produce a staggering 270,000 tonnes of greenhouse gases at a time when there is a global shift away from such production, clear vegetation and threaten indigenous flora and fauna while putting at risk groundwater in the Lake Woods catchment.

In these times of reconciliation it is disheartening to note that Traditional Owners within Origin lease areas have not been appropriately consulted or considered. This raises grievous concerns about an inadequate consent processes.

By all accounts Origin Energy has ignored the science and its social responsibilities, preferring to coerce an approval with deceit, misinformation and largesse.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Dan Laws
Pinelands, Northern Territory, 0829, Australia

This email was sent by Dan Laws via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dan Laws at *****.

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Leach, Sharon – Wednesday, 09 February 2022 – 14:42:20

Subject	Objection to Origin EMP for EP 98 & 76
From	Sharon Leach
Sent	2/9/2022 2:42:20 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sharon Leach
Rum Jungle, Northern Territory, 0822, Australia

This email was sent by Sharon Leach via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sharon Leach at *****.

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Leard, Theresa – Wednesday, 09 February 2022 – 08:15:31

Subject	Objection to Origin EMP for EP 98 & 76
From	Theresa Leard
Sent	2/9/2022 8:15:31 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Theresa Leard via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Theresa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Theresa Leard at *****.

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Lee, Am – Thursday, 10 February 2022 – 05:45:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Am Lee
Sent	2/10/2022 5:45:22 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Am Lee via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Am provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Am Lee at *****.

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Lee, Robyn – Thursday, 03 February 2022 – 14:25:21

Subject	Objection to Origin EMP for EP 98 & 76
From	Robyn Lee
Sent	2/3/2022 2:25:21 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Robyn Lee

This email was sent by Robyn Lee via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Robyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Robyn Lee at *****.

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LEIMBACH, CLAIRE – Wednesday, 02 February 2022 –
10:09:40

Subject	Objection to Origin EMP for EP 98 & 76
From	CLAIRE LEIMBACH
Sent	2/2/2022 10:09:40 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
CLAIRE LEIMBACH
Suffolk Park, New South Wales, 2481, Australia

This email was sent by CLAIRE LEIMBACH via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however CLAIRE provided an email address (*****) which we included in the REPLY-TO field.

Please reply to CLAIRE LEIMBACH at *****,

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Leslie, Norma – Thursday, 10 February 2022 – 15:10:16

Subject	Objection to Origin EMP for EP 98 & 76
From	Norma Leslie
Sent	2/10/2022 3:10:16 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Norma Leslie
Wallsend DC, New South Wales, 2287, Australia

This email was sent by Norma Leslie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Norma provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Norma Leslie at *****.

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Lewis, Jeff – Wednesday, 09 February 2022 – 13:09:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Jeff Lewis
Sent	2/9/2022 1:09:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jeff Lewis
Dubbo, New South Wales, 2830, Australia

This email was sent by Jeff Lewis via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jeff provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jeff Lewis at *****.

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Lewis, Les – Wednesday, 09 February 2022 – 16:31:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Les Lewis
Sent	2/9/2022 4:31:30 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Les Lewis via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Les provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Les Lewis at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Litchfield, Kathryn – Wednesday, 02 February 2022 – 07:43:13

Subject	NO Fracking in the Roper Region
From	Kathryn Litchfield
Sent	2/2/2022 7:43:13 AM

Dear Government for the Northern Territory,

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Sincerely

This email was sent by Kathryn Litchfield via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kathryn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kathryn Litchfield at *****.

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Loch, Leonie – Wednesday, 09 February 2022 – 13:13:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Leonie Loch
Sent	2/9/2022 1:13:54 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Leonie Loch

This email was sent by Leonie Loch via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Leonie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Leonie Loch at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Lochner, Sheri – Friday, 04 February 2022 – 22:10:15

Subject	Objection to Origin EMP for EP 98 & 76
From	Sheri Lochner
Sent	2/4/2022 10:10:15 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sheri Lochner
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Sheri Lochner via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sheri provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sheri Lochner at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Lockwood, Margaret – Thursday, 10 February 2022 – 19:53:29

Subject	Objection to Origin EMP for EP 98 & 76
From	Margaret Lockwood
Sent	2/10/2022 7:53:29 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Margaret Lockwood via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Margaret provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Margaret Lockwood at *****.

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Louden, Suzanne – Wednesday, 09 February 2022 – 16:24:55

Subject	Save our underground water and unique landscape Objection! Objection to Origin EMP for EP 98 & 76
From	Suzanne Louden
Sent	2/9/2022 4:24:55 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Suzanne Louden

This email was sent by Suzanne Louden via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Suzanne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Suzanne Louden at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Lumby, Tammy – Wednesday, 09 February 2022 – 08:51:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Tammy Lumby
Sent	2/9/2022 8:51:52 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Tammy Lumby via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tammy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tammy Lumby at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Lytle, Denise – Saturday, 05 February 2022 – 04:50:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Denise Lytle
Sent	2/5/2022 4:50:36 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Denise Lytle
Woodbridge Township, New Jersey, 07095, United States

This email was sent by Denise Lytle via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Denise provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Denise Lytle at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

M, B – Friday, 04 February 2022 – 08:06:25

Subject	Objection to Origin EMP for EP 98 & 76
From	B M
Sent	2/4/2022 8:06:25 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
B M

This email was sent by B M via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however B provided an email address (*****) which we included in the REPLY-TO field.

Please reply to B M at *****.

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M, J – Thursday, 10 February 2022 – 23:51:32

Subject	Objection to Origin EMP for EP 98 & 76
From	J M
Sent	2/10/2022 11:51:32 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
J M
Alice Springs

This email was sent by J M via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however J provided an email address (*****) which we included in the REPLY-TO field.

Please reply to J M at *****.

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Mahony, Finton – Wednesday, 02 February 2022 – 07:04:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Finton Mahony
Sent	2/2/2022 7:04:19 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Finton Mahony via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Finton provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Finton Mahony at *****,

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Manfield, Ben – Friday, 04 February 2022 – 09:57:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Ben Manfield
Sent	2/4/2022 9:57:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ben Manfield
Moulden, Northern Territory, 0830, Australia

This email was sent by Ben Manfield via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ben provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ben Manfield at *****.

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Mansfield, David – Wednesday, 09 February 2022 – 19:47:17

Subject	Objection to Origin EMP for EP 98 & 76
From	David Mansfield
Sent	2/9/2022 7:47:17 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
David mansfield

This email was sent by David mansfield via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however David provided an email address (*****) which we included in the REPLY-TO field.

Please reply to David mansfield at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Manuel, Tamara – Friday, 04 February 2022 – 07:57:45

Subject	Objection to Origin EMP for EP 98 & 76
From	Tamara Manuel
Sent	2/4/2022 7:57:45 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
 - Create large open water storages full of toxic wastewater
 - Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
 - Clear vegetation and threaten the Gouldian Finch
 - Put at risk groundwater in the Lake Woods catchment
- Our children deserve a future and we owe it to them
Renewable energy is the only option

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Tamara Manuel
Girraween, Northern Territory, 0836, Australia

This email was sent by Tamara Manuel via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tamara provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tamara Manuel at *****.

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Marks, Janet – Wednesday, 09 February 2022 – 11:07:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Janet Marks
Sent	2/9/2022 11:07:25 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Janet Marks via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Janet provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Janet Marks at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mason, James – Thursday, 10 February 2022 – 11:05:42

Subject	Objection to Origin EMP for EP 98 & 76
From	James Mason
Sent	2/10/2022 11:05:42 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
James Mason
Western Australia, 6740, Australia

This email was sent by James Mason via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however James provided an email address (*****) which we included in the REPLY-TO field.

Please reply to James Mason at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Massmann, Katrin – Saturday, 05 February 2022 – 11:04:19

Subject	My objection to Origin EMP for EP 98 & 76
From	Katrin Massmann
Sent	2/5/2022 11:04:19 AM

Good morning.

Please consider the following:

I was shocked to hear about new wells/fracking propositions in teh heart of the beautiful Northern Territory.

Nature needs to be protected and most of all our clean drinking water, which has fallen as rain millenia ago and is irreplacable!

This is imperative not just for us, but mainly also for future generations!

I am writing to object to the Origin Energy plan for those 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

With regards,
Katrin Massmann.

This email was sent by Katrin Massmann via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at

*****, however Katrin provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Katrin Massmann at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Matthews, Stan – Monday, 07 February 2022 – 11:00:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Stan Matthews
Sent	2/7/2022 11:00:33 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Stan Matthews
Pinbarren, Queensland, 4568, Australia

This email was sent by Stan Matthews via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Stan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Stan Matthews at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mauger, Debby – Friday, 04 February 2022 – 10:13:20

Subject	Objection to Origin EMP for EP 98 & 76
From	Debby Mauger
Sent	2/4/2022 10:13:20 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Debby Mauger
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Debby Mauger via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Debby provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Debby Mauger at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mazlin, Allan – Wednesday, 09 February 2022 – 11:46:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Allan Mazlin
Sent	2/9/2022 11:46:06 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Allan Mazlin
Gidya, Queensland, 4824, Australia

This email was sent by Allan Mazlin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Allan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Allan Mazlin at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mccarthy, Ellen – Thursday, 03 February 2022 – 15:36:57

Subject	Objection to Origin EMP for EP 98 & 76
From	Ellen Mccarthy
Sent	2/3/2022 3:36:57 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ellen McCarthy
South Fremantle, Western Australia, 6162, Australia

This email was sent by Ellen McCarthy via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ellen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ellen McCarthy at *****.

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Mcdonald, Julie – Friday, 04 February 2022 – 19:02:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Julie Mcdonald
Sent	2/4/2022 7:02:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Julie McDonald via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Julie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Julie McDonald at *****.

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Mcginley, Billee – Wednesday, 09 February 2022 – 09:24:32

Subject	The Beetaloo expansion must stop. Objection to Origin EMP for EP 98 & 76
From	Billee McGinley
Sent	2/9/2022 9:24:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Origin is operating against the consent of traditional owners, and they have no doubt their land water and health is under threat from fracking.

I am a research scientist that has been investigating for many years now the implications of fracking and the environmental values at risk in the NT. Fracking anywhere crosses the line of ecological sustainable development. It industrialises entire landscapes, the cumulative impacts are undeniable, and there is always pollution. I have presented my findings at Melbourne University at the sustainability institute and my peers are in shock at the state of affairs in the NT.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016. And in the end the Beetaloo expansion must stop.

In relations to this plan and any other plans, I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Drill through regionally connected aquifer systems hundreds of communities in the region all the way to the Roper River and Daly river rely on
- Create large open water storages full of toxic wastewater, putting at risk surface water in the Lake Woods catchment, an internationally significant wetland.
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions

If fracking moves to productions in the region it will at the least clear extensive network vegetation and threaten vulnerable species such as the Gouldian Finch, fragment habitats, and increase surface water runoff affecting water quality in the region.

I have personally talked with Traditional Owners within Origin lease areas they have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP and urge you to stop the expansion of polluting and destructive unconventional mining of shale gas in the Beetaloo, and protect the NT.

Yours sincerely,
Billee McGinley
Research Scientist
<https://www.linkedin.com/in/billee-mcginley-9a961615/>

This email was sent by Billee McGinley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Billee provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Billee McGinley at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mcintyre, Daniel – Wednesday, 16 February 2022 – 08:33:32

Subject	FW: Objection to Origin EMP for EP 98 & 76
From	Daniel McIntyre
Sent	2/16/2022 8:33:32 AM

The thought that a human being plans and plots to destroy the environment and lives of other people living in the intended frack area, who rightfully belong to & who own that land, that is their own tribal land,

-----Original Message-----

From: Jennifer McLeod <*****>

Sent: Wednesday, 9 February 2022 9:08 AM

To: OriginPetroleum DEPWS <*****>

Subject: Objection to Origin EMP for EP 98 & 76 The thought that a human being plans and plots to destroy the environment and lives of other people living in the intended frack area, who rightfully belong to & who own that land, that is their own tribal land, i...

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Jennifer McLeod

Maclean. New South Wales, 2463, Australia

This email was sent by Jennifer McLeod via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jennifer provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jennifer McLeod at *****.

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Mcintyre, David – Tuesday, 08 February 2022 – 10:11:54

Subject	Objection to Origin EMP for EP 98 & 76
From	David McIntyre
Sent	2/8/2022 10:11:54 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
David McIntyre
Blackwater, Queensland, 4717, Australia

This email was sent by David McIntyre via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however David provided an email address (*****) which we included in the REPLY-TO field.

Please reply to David McIntyre at *****.

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Mckellar, Susan – Wednesday, 09 February 2022 – 09:45:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Susan Mckellar
Sent	2/9/2022 9:45:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Susan McKellar via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Susan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Susan McKellar at *****.

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Mckendrick, Donna – Wednesday, 09 February 2022 –
10:32:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Donna Mckendrick
Sent	2/9/2022 10:32:33 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Donna McKendrick via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Donna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Donna McKendrick at *****.

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Mckenzie, Mark – Wednesday, 09 February 2022 – 08:01:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Mark Mckenzie
Sent	2/9/2022 8:01:36 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Mark McKenzie
Yeronga, Queensland, 4104, Australia

This email was sent by Mark McKenzie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mark provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mark McKenzie at *****.

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McLean, Roz – Wednesday, 09 February 2022 – 08:38:45

Subject	Objection to Origin EMP for EP 98 & 76
From	Roz Mclean
Sent	2/9/2022 8:38:45 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Roz McLean via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Roz provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Roz McLean at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

McLean, Susan – Wednesday, 09 February 2022 – 19:19:46

Subject	My Objection to Origin EMP for EP 98 & 76
From	Susan Mclean
Sent	2/9/2022 7:19:46 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

My thanks for your time.

Yours sincerely,
Susan McLean

This email was sent by Susan McLean via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Susan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Susan McLean at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mcmahon, Janey – Wednesday, 09 February 2022 – 12:21:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Janey McMahon
Sent	2/9/2022 12:21:35 PM

Below is a pre-filled email sent on my behalf. We the people of Australia and original owners of the land are say No and have been saying it for years now. Enough is Enough. Your children and grandchildren will have nothing left.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Janey McMahon
Noranda, Western Australia, 6062, Australia

This email was sent by Janey McMahon via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Janey provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Janey McMahon at *****,

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Mcmillan, Donna – Wednesday, 09 February 2022 – 18:50:05

Subject	Objection to Origin EMP for EP 98 & 76
From	Donna Mcmillan
Sent	2/9/2022 6:50:05 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Donna McMillan

This email was sent by Donna McMillan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Donna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Donna McMillan at *****.

To learn more about Do Gooder visit www.dogooder.co

To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mcnamara, Kat – Thursday, 03 February 2022 – 20:42:46

Subject	Objection to Origin EMP for EP 98 & 76
From	Kat McNamara
Sent	2/3/2022 8:42:46 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kat McNamara
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Kat McNamara via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kat provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kat McNamara at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Mealing, Indya – Tuesday, 01 February 2022 – 19:13:28

Subject	Objection to Origin EMP for EP 98 & 76
From	Indya Mealing
Sent	2/1/2022 7:13:28 PM

I used to be an Origin customer but your fracking policy made me take my business elsewhere. I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Indya Mealing via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Indya provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Indya Mealing at *****.

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Mellers, Vandra – Wednesday, 09 February 2022 – 09:20:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Vandra Mellers
Sent	2/9/2022 9:20:40 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Vandra Mellers
Asquith, New South Wales, 2077, Australia

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Please reply to Vandra Mellers at *****.

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Messenger, Erin – Thursday, 10 February 2022 – 00:17:12

Subject	Objection to Origin EMP for EP 98 & 76
From	Erin Messenger
Sent	2/10/2022 12:17:12 AM

Having grown up in the Territory, I am most concerned and am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

To approve further degradation of this land is shortsighted and will be a terrible outcome for all our children's and the habitat of many native animal's future.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Erin Messenger
Stockyard, Queensland, 4703, Australia

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Please reply to Erin Messenger at *****.

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Michele, Woodcock – Thursday, 10 February 2022 – 03:07:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Woodcock Michele
Sent	2/10/2022 3:07:19 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Woodcock Michele via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Woodcock provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Woodcock Michele at *****.

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Michelle, Stanway – Thursday, 03 February 2022 – 17:33:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Stanway Michelle
Sent	2/3/2022 5:33:32 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Stanway Michelle via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Stanway provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Stanway Michelle at *****.

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Millu, Janis – Friday, 04 February 2022 – 12:31:42

Subject	Objection to Origin EMP for EP 98 & 76
From	Janis Millu
Sent	2/4/2022 12:31:42 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Janis Millu

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Please reply to Janis Millu at *****.

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Minnett, Warren – Thursday, 03 February 2022 – 15:11:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Warren Minnett
Sent	2/3/2022 3:11:00 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will: Seriously impact the Roper River Region where I have lived for the last 38 years.

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Warren Minnett
Northern Territory, 0852, Australia

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Please reply to Warren Minnett at *****.

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Mitchell, Noelene – Thursday, 10 February 2022 – 19:53:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Noelene Mitchell
Sent	2/10/2022 7:53:40 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Noelene Mitchell
Cornwall, Tasmania, 7215, Australia

This email was sent by Noelene Mitchell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Noelene provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Noelene Mitchell at *****.

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Moorhead, Sam – Thursday, 10 February 2022 – 17:23:52

Subject	TRM: Submission on Origin EMP for EPs 98 & 76
From	Sam Moorhead
Sent	2/10/2022 5:23:52 PM

Hello,

Please find attached a comment on EMP ORI10-1, containing two appendices, as well as four additional appendices.

Thank you for considering our submission on this EMP. Please don't hesitate to get in touch if we can provide any further information in relation to the points raised in our comment.

Yours sincerely,

Sam

--

Sam Moorhead

Lock the Gate Alliance
My pronouns are they/them

<mailto:*****>

This always was and always will be Aboriginal land.

Attached Documents

DEPWS Petroleum Operations Unit
Northern Territory Government

SUBMISSION - ORI10-1: Origin Energy B2 Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 EMP

Lock the Gate Alliance welcomes the opportunity to comment on the EMP submitted by Origin Energy B2 ('Origin') in relation to the proposed work programme for EPs 98 & 76.

Lock the Gate Alliance is a national collection of grassroots organisations made up of over 120,000 supporters and hundreds of local groups who are concerned about risky coal mining, coal seam gas and fracking. These supporters and groups are located in Alice Springs, Darwin, NT rural and remote areas and around Australia, and include farmers, traditional custodians, conservationists and urban residents. The Lock the Gate Alliance has a vision of healthy, empowered communities able to protect their land and water and deliver sustainable solutions to their food and energy needs.

Lock the Gate submits that the ORI10-1 EMP fails to meet the criteria for approval under the Petroleum (Environment) Regulations 2016 and should be rejected.

Lock the Gate, and several independent experts whose advice was sought as part of the preparation of this submission, have identified multiple serious issues with the EMP.

1. There are insufficient regulatory safeguards, baseline knowledge and policy certainty to understand and mitigate the risks of unconventional gas exploration in the NT.
2. Origin's interpretation of the cumulative impact assessment requirement under the Regulations contradicts the clear intention of this provision and misleadingly downplays the scale of its exploration programme's environmental impacts.
3. The EMP's greenhouse gas emissions assessment lacks supporting evidence, underestimates probable emissions, and fails to address the contribution to climate change made by the proposed activities.
4. The EMP mischaracterises and fails to adequately mitigate real risks to stygofauna and subsurface groundwater dependent ecosystems.
5. The assessment and proposed mitigation of impacts on threatened species and local wildlife draws on insufficient, outdated baseline data and includes illogical reasoning.
6. Origin's stakeholder engagement, especially with Traditional Owners, neither meets the requirements of Schedule 1 to the Regulations nor reflects international best practice.
7. Proposals for the management of drilling waste and well integrity are unclear and fail to demonstrate that the risks of groundwater and surface contamination have been reduced to an acceptable level.
8. The EMP does not include sufficient information about the hydraulic fracturing chemicals Origin proposes to use to meet relevant requirements in the Regulations.

These issues (set out in further detail below), mean that the EMP's proposed activities and mitigation measures fall short of the standard required under the Petroleum (Environment) Regulations 2016 ('the Regulations'), and must be rejected.

In the alternative, we submit that given these issues and the cumulative impacts of unconventional gas exploration in the Beetaloo, the EMP should at least be referred to the EPA to determine to whether an environmental impact assessment is required under the *Environment Protection Act 2019* prior to a decision on the EMP being made (ss 55(2), (4)).

Lock the Gate also holds broader concerns about the purported social and economic benefits of the proposed activities. These are set out at the conclusion of the submission.

Independent expert analysis supports the points put forward in this submission.

The analysis presented in this submission is supported and informed by several independent expert reports, attached as appendices to this submission:

- Advice on the greenhouse gas emissions and climate change impacts of the proposed activities, and the manner in which they are dealt with in the EMP, prepared by Professor Nerilie Abram - **Appendix D**
- Advice on whether the EMP is likely to facilitate adequate evaluation and management of the biodiversity risks associated with the activities, prepared by ecologists Claire deLacey and Karl Bossard - **Appendix E**
- Advice on the stakeholder engagement and social impact aspects of the EMP, prepared by Gemma Viney - **Appendix F**

Issue 1: There is insufficient baseline knowledge, policy certainty and regulatory safeguards to properly understand and mitigate the risks associated with onshore unconventional gas extraction.

Lock the Gate submits that the environmental risks of onshore gas activities cannot be considered reduced to an acceptable level in the absence of a comprehensive understanding of baseline environmental values in the Beetaloo, a clear policy for the avoidance of additional greenhouse gas emissions from onshore gas, coherent and enforceable protections for water resources, and the full implementation of all other Pepper Inquiry recommendations. A description of these policy commitments and progress in fulfilling them is provided at **Appendix B**, and recent legal analysis concluding that actual progress on Pepper Inquiry recommendations falls short of reported outcomes is included at **Appendix C**.

The Pepper Inquiry undertook extensive desktop and primary research, and consulted a broad range of scientific, regulatory, industry and community stakeholders, in its assessment of the potential environmental impacts of hydraulic fracturing in the NT. Its conclusion was that there were significant gaps in knowledge about surface and underground water resources, hydrogeology, and aquatic and terrestrial ecosystems in the NT, which prevented an adequate assessment of the risks to environmental values posed by onshore gas.¹ The Inquiry accordingly recommended the completion of a Strategic Regional Environmental Baseline Assessment ('SREBA') for prospective onshore shale gas regions, with the

¹ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 133.

Beetaloo to be prioritised.² This has not yet been done. The nature and scale of impacts on the NT's water resources and biodiversity values from onshore unconventional gas activities are not yet known. This means that it is currently irresponsible and potentially unsafe to allow such activities to proceed. While this EMP covers 'exploration and appraisal' rather than 'production' activities, it is unclear why the NTG would consider it appropriate to allow any steps towards the development of a full-scale onshore gas industry, and associated environmental impacts, when it has not yet ascertained whether such an industry could safely and sustainably operate in the NT context.

In recognition of the principles of ecologically sustainable development ('ESD principles'), the Pepper Inquiry recommended that the NT and Australian Governments seek to ensure that there is no net increase in the life cycle GHG emissions from onshore gas produced in the NT.³ Origin estimates that the activities encompassed in this EMP will produce 146.5 to 273 kilotonnes of CO₂-e, with a peak annual emissions amount of 177.6kt CO₂-e.⁴ This peak annual emissions amount equates to 0.86% of the Northern Territory's entire annual emissions for 2019,⁵ just for one company's early exploration plans. In the absence of a completed, evidence-based and realistic greenhouse gas emissions offsets policy, it is not clear that emissions from onshore gas - including those created through the activities in this EMP - can successfully and economically be offset. Origin's own 'Methane Emissions Management Plan' (Appendix I) does not provide any explanation of how Origin intends to offset the emissions from its proposed activities. The catastrophic consequences of further unmitigated greenhouse gas emissions for the world's climate are well-documented, and will have severe consequences for health and livelihoods in the Northern Territory. Without a viable plan for offsetting the emissions of onshore gas, the emissions resulting from this EMP's activities and other steps towards the production of unconventional gas in the Beetaloo pose an unacceptable environmental risk.

The NTG committed to developing a Water Allocation Plan ('WAP') or WAPs for the aquifers within and adjacent to the Beetaloo as part of its response to the Pepper Inquiry's final report in 2018. No such WAPs have yet been developed. This means that there is no way of knowing whether the enormous amounts of water required by Origin and other gas companies pursuing appraisal activities in the Beetaloo can safely and sustainably be allocated without impacting other water users, including townships, Indigenous communities, pastoralists and other businesses. While these companies must obtain licences to extract groundwater, these licences are considered and granted in isolation and rarely, if ever, informed by an overarching understanding of the cumulative impact of water consumption on water resources. Indeed, unless and until a SREBA is completed for the Beetaloo aquifers, such an understanding does not exist. This is a serious gap in the regulatory framework required to safeguard NT water, and must be filled to successfully mitigate the risks of activities like those in the EMP.

² Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 7.5.

³ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 9.8.

⁴ *ORI10-1: Origin Energy B2 Pty Ltd Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 Environment Management Plan*, p114-125 ('EMP').

⁵ The NT emitted 20.7Mt in 2019: Australian Government - Department of Industry, Science, Environment and Resources, *National Greenhouse Accounts 2019 - State and Territory Greenhouse Gas Inventories* <<https://www.industry.gov.au/data-and-publications/national-greenhouse-accounts-2019/state-and-territory-greenhouse-gas-inventories-annual-emissions>>.

Hydraulic fracturing should not be permitted until all Pepper Inquiry recommendations are fully implemented. We note that at the outset of its risk assessment, Origin states ‘the adoption of all recommendations by the NTG, the new Code of Practice and associated regulatory changes provides a high level of inherent protection to ensure activities are undertaken in a safe and consistent manner’.⁶ This is concerning, as the recommendations have not actually been implemented and thus the ‘inherent protection’ relied upon by Origin cannot be said to exist, undermining the integrity of its risk matrix. In fact, a forensic legal analysis completed by the Environmental Defenders Office and legal consultants Earthjustice found that only 38 of the 138 ‘implementation actions’ arising from the Inquiry have been fully implemented. While the NTG has classified 64 of the actions as being ‘completed’ in its latest progress report, the analysis found that 15 of these actions have not been implemented in a manner consistent with the specific recommendations of the Inquiry, and a further 11 actions have only been partially completed. A table setting out the analysis is included at **Appendix C** to this submission. Given that outstanding recommendations include the SREBA and other actions necessary to understand the true potential of any hydraulic fracturing to harm the NT environment, the actual environmental impacts arising from the activities proposed in this EMP cannot be said to have been reduced to an acceptable level.

Issue 2: The cumulative impact assessment does not align with the intention of the Regulations and misleadingly downplays the proposed activities’ environmental impacts.

The EMP’s cumulative impact assessment is restricted to Origin’s existing wells in its Beetaloo tenements, two additional approved wells, and the four proposed in the EMP.⁷ This is an artificially narrow scope of analysis which clearly fails to reflect the intention and requirements of the Regulations.

First, this approach ignores the impacts of other gas companies’ exploration and appraisal activities in the Beetaloo, even though these activities have the same kind of regional environmental impacts as Origin’s own and therefore clearly ‘accumulate’ in the relevant sense. This issue was raised by the Pepper Inquiry, which noted the potential for ‘exploration creep’ if the cumulative impacts of exploration activity are not assessed on a regional basis.⁸ The Regulations were amended at the recommendation of the Pepper Inquiry to require a cumulative assessment as a way of protecting against intensive exploration activity across multiple EPs inadvertently resulting in production-level environmental impacts before its recommendations were fully implemented. Origin’s interpretation of the Regulations does not align with the clear intention of the amended Regulations, and the EMP therefore falls short of the standard required for approval under the framework.

A second, similar, issue with Origin’s approach is that the environmental impacts of other industries in the region are also excluded, despite these industries also having similar, and compounding, consequences for the environment, such as extraction of groundwater, land clearing and increased noise, traffic, dust and light pollution.

Thirdly, this approach makes it difficult for the public (or the regulator) to evaluate Origin’s risk assessments and conclusions, undermining the effectiveness of the EMP process. For

⁶ EMP, 182.

⁷ EMP, 25.

⁸ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 413-4.

example, Origin assesses that the ‘increased industrialisation of landscape resulting in a loss of amenity and tourism value [is] considered low due to limited extent of petroleum activities.’⁹ Without an indication of the full scale of current and planned appraisal activity across the Beetaloo, it is difficult to know whether this is a fair assessment of the risk.

Finally, it contradicts Origin’s own objectives for a Beetaloo gas industry which, as illustrated in Figure 8 of the EMP, posits a large-scale gasfield comprising 400-500 wells. If Origin is planning for, and hoping to achieve, development on this scale, then the consequences of that development should be included in its assessment of the cumulative impacts of the exploration plans that comprise a necessary step towards that development. There is no valid reason for Origin to exclude ‘what could eventuate if a successful result was achieved’,¹⁰ and this approach does not align with the evident intention of the Regulations.

Issue 3: The EMP’s greenhouse gas emissions assessment lacks supporting evidence, underestimates probable emissions, and fails to address the contribution to climate change made by the proposed activities. The climate risks of the proposed activities have not been reduced to an acceptable level.

The EMP’s assessment of the climate change impacts of the proposed activities is lacking in supporting evidence and downplays the scale of Origin’s greenhouse gas emissions. An independent expert assessment of this aspect of the EMP was commissioned from Professor Nerilie Abram, a Professor of Climate Science at the Australian National University with more than 20 years’ experience in climate change research. In Professor Abram’s opinion (provided in full at **Appendix D**), the EMP does not adequately address the climate change impacts of the proposed activities because:

1. *It does not recognise or address the scientific evidence that every tonne of carbon dioxide emitted to the atmosphere causes further climate warming.*
2. *It does not recognise or address the scientific evidence that every fraction of a degree of additional warming worsens the impacts of climate change for people and the environment, both globally and in Australia.*
3. *It does not recognise or address greenhouse gas emissions in the context of global agreements (to which Australia is a party) to limit warming to 1.5°C or well below 2°C, and scientific evidence for the increasingly small carbon budgets that remain to meet these climate change mitigation commitments. This includes omission of any detail on Australia’s share of the remaining carbon budget, and emission reduction pathways compatible with staying within this carbon budget.*
4. *It does not present evidence for the broader context of climate change impacts that production and use of gas from the Beetaloo sub-basin would cause, and the viability of this activity in the context of scientific evidence for Australia’s remaining carbon budget. The omission of this information means that it is not possible for an informed assessment to be made on whether the climate and environmental impacts associated with exploration of the Beetaloo sub-basin should be avoided.*¹¹

⁹ EMP, 135.

¹⁰ EMP, 25.

¹¹ Appendix D, 2.

Origin's summary of the cumulative greenhouse gas emissions from its proposed activities is limited to its own 'approved, proposed and potential' activities from 2022-24.¹² It fails to take into account either the emissions from other companies' exploration activities in the Beetaloo, or emissions from Origin's own previous and current works. The summary and assessment therefore mischaracterises the cumulative greenhouse impacts of exploration in the Beetaloo and disguises the actual scale and contribution of its own emissions.

Furthermore, Origin states that 'no material emissions are anticipated' from most of the activities that are included in the summary of its 2022-24 emissions. No evidence for this conclusion, nor definition of 'material emissions', is provided. It is unclear why activities like 'civil construction' are not expected to result in emissions, given the use of diesel-powered equipment and land clearing involved in construction. The greenhouse gas discussion also includes completely unfounded assertions like 'a future shale gas development will be net zero 1 and 2 emissions' (no supporting evidence),¹³ while the contention that 'the current net climate benefits of using natural gas in replacing coal for electricity generation is up to 50% less emissions'¹⁴ is irrelevant considering that, per Origin's own statements about the 'early' stage of its exploration project, any substitution of Origin-produced Beetaloo gas for coal could not be expected to occur for at least 3 years.

Overall, the EMP fails to provide assurance that the serious climate consequences of the proposed activities have been either adequately identified or reduced to a level that is acceptable and as low as reasonably practicable. The EMP includes absolutely no recognition of the fact that anthropogenic greenhouse gas emissions are causing the climate to warm, that this warming is already having and will continue to have profound effects on human and ecosystem health, and that its own proposed activities to these impacts. The EMP therefore does not meet the clear obligation in Schedule 1 of the Regulations to provide 'details of *all* environmental impacts and environmental risks of the regulated activity described in the plan and an assessment of those impacts and risks'.¹⁵

Origin is seeking permission to create up to 273kt additional emissions, just from exploration and appraisal activities, at a time when greenhouse gas emissions must be swiftly decreased if the world is to limit warming to 1.5°C. The impacts of climate change above 1.5°C are more severe than if warming is kept beneath this threshold. Every additional 0.5°C of global warming 'causes clearly discernible increases in the intensity and frequency of hot extremes, including heatwaves (very likely), and heavy precipitation (high confidence), as well as agricultural and ecological droughts'.¹⁶ These phenomena will translate into real and damaging consequences for the health of humans and ecosystems in the NT, and the viability of agriculture and other essential industries.

The International Energy Agency has stated categorically that no new gas fields can be developed if the world is to sustainably achieve this target,¹⁷ while the United Nations Environment Programme has concluded that governments should be reducing fossil fuel

¹² EMP, Table 25, 124.

¹³ EMP, 124.

¹⁴ EMP, 123.

¹⁵ Petroleum (Environment) Regulations 2016, Schedule 1, cl 3(1)(a).

¹⁶ Intergovernmental Panel on Climate Change, *Climate Change 2021: The Physical Science Basis - Summary for Policymakers* (2021), para B.2.2.

¹⁷ International Energy Agency, *Net Zero by 2050: A Roadmap for the Global Energy Sector* (May 2021) <<https://www.iea.org/reports/net-zero-by-2050>>.

production by 6% every year between now and 2030 to avoid exceeding the 1.5°C limit.¹⁸ As set out in Professor Abram's report, if Australia retains its current Nationally Determined Contribution target (i.e., its emissions reduction target), it needs to reduce its annual emissions by 12.9% every year to limit warming even to the higher threshold of 2°C.¹⁹ To have a 67% chance of not exceeding 1.5°C, Australia's remaining carbon budget is only 3,521Mt CO₂-e.²⁰ Origin's proposed exploration activities, ultimately aimed at developing the Beetaloo as a new gasfield, are wholly at odds with achieving vital reduction targets and preventing dangerous global warming.

Origin's proposed activities would make a very real contribution to climate change, and are entirely inconsistent with achieving the emission reductions essential to keeping global warming within relatively safe limits. Without any plan or demonstrated capacity to offset the emissions from its exploration activities - or from future shale gas production - the climate risks of Origin's plans have not been reduced to an acceptable level and are not consistent with the principles of ecologically sustainable development.

Issue 4: Origin fails to identify and address real risks to subsurface groundwater dependent ecosystems and stygofauna, including recently discovered species.

Subsurface water systems are home to complex ecosystems, with underground organisms - 'stygofauna' - physiologically adapted to the comparatively low nutrient and oxygen, sunlight-free aquifer environment. Relatively little is known about stygofauna around Australia and especially in the NT, but there is evidence that the 'feeding, movement and excretion by diverse assemblages of stygofauna potentially enhance groundwater ecosystem services such as water purification, bioremediation and water infiltration.'²¹ As a result, jurisdictions around Australia recognise the ecological and biodiversity value of stygofauna, and have introduced regulation to protect subsurface groundwater-dependent ecosystems.²²

The Pepper Inquiry was unable to make conclusive assessments about the potential impacts of hydraulic fracturing on stygofauna and subterranean aquatic ecosystems due to a near complete lack of information about these organisms and ecosystems in the NT.²³ However, the Inquiry did state that such ecosystems are 'likely to be susceptible to excessive groundwater use and any contamination from shale gas hydraulic fracturing operations'.²⁴

In order to fill these knowledge gaps and develop the understanding of stygofauna essential to assessing the risks posed by onshore unconventional gas activities, the Inquiry recommended that the SREBA identify, characterise and provide measures to protect all subterranean aquatic ecosystems in the Beetaloo Sub-basin.²⁵ As discussed earlier, the

¹⁸ United Nations Environment Programme, *Production Gap Report 2020* (December 2020), 36 <https://productiongap.org/wp-content/uploads/2020/12/PGR2020_FullRprt_web.pdf>.

¹⁹ Appendix D,

²⁰ Climate Targets Panel, Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 Emissions Reduction Targets (January 2021), p 9.

²¹ Andrew J et al, 'Biodiversity, functional roles and ecosystem services of groundwater invertebrates' (2008) 22 *Invertebrate Systematics* 103.

²² Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 115.

²³ See Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 128, 166.

²⁴ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 128.

²⁵ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), recommendations 7.19 and 7.20.

Beetaloo SREBA has not been completed and Lock the Gate submits that Origin's fracking should not be allowed to proceed in the absence of this essential baseline data. However, the findings of preliminary stygofauna studies for the SREBA²⁶ have been released and include:

- That stygofauna are present in the Cambrian Limestone Aquifer ('CLA') formations of the Beetaloo Sub-basin
- That the CLA is home to at least 11 species of stygofauna previously unknown to science, including a relatively large predatory shrimp species (indicating a multi-layered food web)
- The genetic similarity of the *Parisia unguis* shrimp species found at sample sites more than 300km apart adds to existing evidence of the interconnectedness of aquifers in and adjacent to the Beetaloo Sub-basin

Origin ignores these Beetaloo-specific findings in its EMP, instead relying on high level and generic indicators from a 2015 summary paper on stygofauna across Australia to conclude that stygofauna are unlikely to be affected by its proposed activities.²⁷ This means that the EMP does not adequately identify or address risks to stygofauna and the ecosystem services they provide posed by the proposed activities, nor does it support the Minister to make a decision in accordance with the principle of evidence-based decision-making under section 20 of the Environment Protection Act 2019. This principle applies to the Minister's decision to approve an EMP, and stipulates that decisions should be 'based on the best available evidence in the circumstances that is relevant and reliable'.

The SREBA and the specific research to characterise the Beetaloo's subterranean aquatic ecosystems are still underway, with further and more widespread surveys required. There are still huge gaps in our understanding of the distribution, vulnerabilities and ecosystem roles of stygofauna in the region, including EPs 76 & 98. These gaps mean that it is impossible to be certain about the potential impacts of unconventional gas exploration (and production) activities on stygofauna, including from changes to dissolved oxygen levels in aquifers, the presence of drilling and fracturing chemicals, and leakage of methane into groundwater systems. Any of these occurrences would change the chemical composition of underground water, impacting the habitat and food sources of resident ecosystems, while little is known about the susceptibility of stygofauna to chemicals used by the gas industry. The lack of comprehensive characterisation of stygofauna assemblages also undermines their potential as an indicator or reference point for aquifer purity and health, which could otherwise help to monitor and protect these groundwater systems.

In the absence of sufficient knowledge to understand and properly mitigate against the risks to stygofauna and underground ecosystems, the precautionary principle and the principles of ecologically sustainable development dictate that caution must be exercised and exploration activities suspended unless and until these knowledge gaps are filled. A decision to approve the EMP in these circumstances would fail to fulfil the Minister's obligation to consider and apply these principles in her decision.

²⁶ Gavin Rees et al, 'Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory' (2020) GISERA project W18.

²⁷ EMP, 165.

Issue 5: The EMP's assessment of the impacts on flora and fauna, including endangered species, is based on inadequate, outdated baseline data and contains flawed reasoning.

Origin's assessment of the risks to threatened species occurring in proposed exploration areas is founded on inadequate baseline monitoring and lacks evidence to support its conclusions. Ecologists Claire deLacey and Karl Bossard, whose advice was sought in relation to the EMP, concluded that the assessment and proposed management of environmental risks put forward in the EMP is inadequate in a number of respects. A copy of this advice is provided at **Appendix E** to this submission.

The surveying program used to develop an understanding of the local flora and fauna populations in the project areas is somewhat unclear. At various points, the EMP refers to 'previous surveys and database searches' (no date or other details),²⁸ 'incidental fauna surveys at Amungee NW in 2021',²⁹ 'recent surveys' (no date or other details),³⁰ 'surveys undertaken elsewhere in the region' (no location or date details),³¹ and the 'most recent August 2018 survey'.³² This lack of clarity could be because, as noted by Claire deLacey and Karl Bossard in their assessment, the EMP recycles - and does not appear to have updated - content from earlier documentation prepared for the Velkerri and Amungee sites.³³ These earlier EMPs predate the publication of the Beetaloo Geological and Bioregional Assessment Region Baseline Survey results for the Beetaloo, and no reference is made in the current EMP to the results of that survey nor how its findings might interact with the prior assessments of the Velkerri and Amungee sites. No justification is provided in the EMP as to why earlier data is used rather than the most recent, and this conflicts with the principle of evidence-based decision-making set out in section 20 of the *Environmental Protection Act 2019* (NT), applicable to the Minister's decision in relation to this EMP.

The EMP includes a land condition assessment ('LCA') prepared by a contractor in 2021 (Appendix K). The LCA was commissioned in relation to the entirety of Origin's Beetaloo exploration program, and appears to have involved: desktop reviews, ground truthing survey of the Velkerri 76 N1 lease area and access track in October 2019; three days of fieldwork across the Amungee and Beetaloo W sites within EP 98 in August-September 2021, and a weed survey of disturbed areas and access tracks at Amungee NW, Beetaloo W, Kyalla 117 N2 and Velkerri 76 S2.³⁴

The EMP relies heavily (both directly and via the LCA) on the results of desktop reviews of online databases, with the LCA used to verify database results and determine the actual likelihood of potentially occurring threatened species in fact being found in the project areas (and therefore the scale of environmental impacts). This is problematic for two key reasons.

First, the surveying exercises appear to be ad hoc and patchy, and therefore unable to provide an adequate basis for conclusions about the presence and impacts on local wildlife. Notably, there is no evidence provided of any direct flora or fauna surveying of the Velkerri 76 S2, and the reference to the 'most recent vegetation survey' in August 2018 includes the

²⁸ EMP, 160.

²⁹ EMP, 161.

³⁰ EMP, 161.

³¹ EMP, 161.

³² EMP, 159.

³³ See Appendix E, 2-3.

³⁴ EMP Appendix K - Land Condition Assessment, 8-9.

statement that ‘as the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify’.³⁵ As acknowledged in subsequent sections of the EMP, grasses provide vital habitat and food sources for various threatened species, including the Gouldian Finch, and the reliance on an incomplete and out-dated vegetation survey is highly concerning.

Second, the databases used as the primary basis for the flora and fauna risk assessments do not provide accurate and comprehensive information about the distribution of species in the NT. The absence of comprehensive information about the biodiversity assets of regions including the Beetaloo was a key concern of the Pepper Inquiry, which recommended that the SREBA include terrestrial biodiversity assessments of potential onshore gas development areas and that no gas activities be allowed in areas found to have high conservation value.³⁶ These recommendations have not been fulfilled, and the databases relied upon by Origin and its contractor as the basis for its assessment of the risks to significant fauna remain highly unlikely to give an accurate idea of the presence and vulnerabilities of wildlife in the Beetaloo. The EMP itself recognises the gaps in relevant databases, noting that the extent of Bullwaddy (an important habitat for a range of native species) is ‘far more extensive in the Beetaloo exploration area than that indicated by the NT Herbarium records’.³⁷ In the absence of complete databases, and given the fragmented populations of species such as the Gouldian Finch, on-the-ground monitoring is crucial. The fact that no such surveying has been undertaken by Origin indicates that its assessment of the ‘low’ risk to local fauna is unsupported. Similarly, as noted by the ecologist expert report, the Near Threatened vine *Ipomoea argillicola* is identified in the EMP as potentially occurring in the project area, but there does not appear to have been any specific attempt to ascertain whether this species is in fact found onsite.³⁸

The EMP also proposes the use of uncovered ponds to store wastewater, including fracking flowback fluids. This storage method allows for the evaporation of waste liquid, condensing toxic waste and resulting in lower transportation and disposal costs for the company. Open wastewater tanks pose a clear risk to birds who consume, or fall into and can’t escape from, the contaminated water they contain. Other environmental impact assessments for mining projects, and the Federal Government’s Geological and Bioregional Assessment for the Beetaloo, have identified the toxicity of accessible mine waste water as a specific threatening process for Gouldian Finches.³⁹ Due to the risk of spills during extreme rainfall events in the Territory’s wet season, and the potential for access to toxic wastewater by wildlife, the Pepper Inquiry recommended that all wastewater should be stored in enclosed tanks.⁴⁰

The proposed activities are in the vicinity of wetlands that accommodate numerous bird species, while threatened bird species including the Gouldian Finch are listed as occurring within the exploration area. Full mitigation of the toxicity risk to birds requires wastewater to be stored in enclosed tanks at all times. At the very least, tanks should be covered by a net

³⁵ EMP, 159.

³⁶ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 185-6.

³⁷ EMP, 159.

³⁸ See Appendix E, 3-4.

³⁹ Redbank Copper Ltd, ‘Redbank: Gouldian Finch Management Plan’ (2010), 9; Australian Government and CSIRO, ‘Persistence of Gouldian Finch’ <<https://gba-explorer.bioregionalassessments.gov.au/bee/items/item/15/0>>..

⁴⁰ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), recommendation 7.12.

to prevent access to wastewater, and provide some form of escape ramp. Neither of these readily available measures is proposed in the EMP, meaning that the risk has not been reduced to a level that is as low as reasonably practicable. Instead, Origin makes the questionable conclusion that although the endangered Gouldian Finch is likely to occur within the exploration area, and there is wet season foraging habitat on-site, 'the high level of water availability regionally is likely to remove the driver to access the Amungee NW and Velkerri 76 S2 sites'.⁴¹ No real explanation is provided as to why finches would choose to travel to other water sources, especially when the open wastewater ponds will remain unattended (and uncovered) for large periods of inactivity over the EMP timeline. The EMP also refers to 'fauna monitoring results' as confirmation of the absence of Gouldian Finches,⁴² but as noted earlier there is no explanation of the timing or nature of this monitoring and there does not appear to have been any fauna surveying conducted in preparation for the EMP.

Issue 6: The stakeholder engagement conducted in relation to the proposed activities does not meet the requirements of Schedule 1 of the Regulations, and indicates an inadequate approach to consultations with Traditional Owners.

An independent analysis of the stakeholder engagement and social impact of the proposed activities conducted by Gemma Viney found that the engagement undertaken for the EMP fails to address the requirements in Schedule 1 of the Regulations in several key respects, and falls short of international best practice. A copy of the analysis is provided at **Appendix F**, with the key issues summarised below.

Origin Energy appear to have consulted narrowly in relation to specific exploration wells only, thus disenfranchising other First Nations people with an interest in the consequences of exploration which will occur over much larger areas. Direct consultation with Traditional Owners has been limited, and may not have covered the scope of activities proposed in the EMP. The last on-country meeting on EPs 98 & 76 with Traditional Owners occurred in 2019,⁴³ and it is unclear from the summary who attended these meetings and whether the activities put forward in the 2022-24 work program were discussed.⁴⁴ The EMP then states that 'the on-country meetings conclude the engagement and consultation necessary with Traditional Owners prior to commencement of each years' activities'⁴⁵ - aside from being somewhat unclear, this sentence appears to contradict Origin's earlier assertions about its commitment to build trust and ongoing relationships with primary stakeholders. Subsequent consultation has been limited to discussions with the Northern Lands Council (rather than directly with Traditional Owners). No copy of the materials provided to Traditional Owners and/or the NLC is included in the EMP (only the 'Pastoralist Engagement Pack' is provided in Appendix N). The stakeholder engagement log does not include details of stakeholder comments on the proposed activities, nor of the justification for Origin's conclusions that none of the stakeholder responses justify merits review. These sections of the EMP fall short of the requirements in clause 9(1) of Schedule 1 to the Regulations, specifically that an EMP includes a copy of information provided to stakeholders (cl 9(1)(b)), written responses from stakeholders (cl 9(1)(c)), assessment of the merits of objections or claims made by

⁴¹ EMP, 162.

⁴² EMP, 162.

⁴³ EMP, 172.

⁴⁴ See EMP Appendix N, Part A.

⁴⁵ EMP, 172.

stakeholders (cl 9(1)(d)), and a statement of Origin's response to each objection or claim (cl 9(1)(e)).

We note with concern that some Traditional Owners with responsibility for country within these lease areas have raised serious concerns about the failure of Origin Energy to gain their free, prior and informed consent. Lock the Gate fully supports Traditional Owner aspirations for a full participatory role in decision-making which they have raised in various fora and believe they should rightly be considered and treated as full stakeholders in relation to these EMPs. We also note that Australia is a signatory to the UN Declaration on the Rights of Indigenous Peoples, which protects First Nations people's rights to self-determination and to any consent for projects given to be free, prior to projects' commencement, and fully informed.

Issue 7: Proposals for the management of drilling waste and well integrity are unclear and fail to demonstrate that the risks of groundwater and surface contamination have been reduced to an acceptable level.

The EMP does not contain sufficient specificity or certainty about the mitigation of environmental risks from wastewater and drilling muds to indicate that these risks have been reduced to an acceptable level. Origin states that '[a] low toxicity water-based drilling mud is anticipated to be used', that 'other low toxicity chemicals ... may also be used' and that 'synthetic based muds ... may be utilised to drill the horizontal and intermediate section of each of the wells'.⁴⁶ Overall, section 3.8.3.1 on drilling fluids, muds and cuttings mostly comprises generic information and does not provide an adequate foundation for an evaluation of the potential environmental impacts of drilling materials. Similarly, section 3.13.2.3 does not provide a clear treatment pathway for drilling muds. If drilling waste cannot be disposed of onsite, including because it is incompatible with surrounding soils or 'otherwise inappropriate' (presumably too toxic), the EMP states that it 'may be left in-situ across the wet season'.⁴⁷ No information is provided as to how the risk of run-off and dispersal of this potentially toxic waste into the environment during wet season monsoon events would be prevented.

Absolute well integrity is essential to ensuring that methane and industry chemicals do not leak into surrounding strata and, especially, groundwater systems during the shallower stages of drilling. The Gum Ridge and Anthony Lagoon formations of the CLA sustain the baseflow and riparian ecosystems of the Roper and Daly Rivers, as well as the Elsey National Park and the Mataranka springs major tourist attraction. There is strong evidence of interplay between the formations of the CLA, meaning that contamination of an aquifer at the Origin exploration sites would not remain confined to that area, but could spread to adjacent locations and ecosystems. The casing of Origin's existing Amungee NW-1H exploration well experienced a deformation which resulted in the cessation of fracture stimulation at the well. This event is only acknowledged once in the EMP, which states that 'this was not considered a major hazard'.⁴⁸ There is no evidence provided about who made this assessment or why, nor any indication of measures implemented by Origin to ensure that a similar deformation does not occur in the drilling and casing of its proposed wells. In combination with the fact that neither the Well Operations Management Plan nor the Well Integrity Management Plan

⁴⁶ EMP, 73. Emphasis added.

⁴⁷ EMP, 104.

⁴⁸ EMP, 113.

for the proposed wells are made public, legitimate concerns arise as to Origin's ability and preparedness to ensure the integrity of its proposed exploration wells.

Issue 8: Origin has not provided enough information about its hydraulic fracturing chemicals to meet the requirements in Schedule 1 of the Regulations.

Schedule 1, clauses 4A(d)-(h) require an EMP relating to hydraulic fracturing to include information about the purpose, management, transportation, spill prevention and legislative requirements for each chemical or substance to be used in fracking fluids.

Some information about Origin's proposed fracking chemicals is provided in the EMP (pages 89-98, and Appendix E), but this information does not address each Schedule 1 requirement for every chemical. For example, while the purpose of some chemicals in relation to hydraulic fracturing is mentioned in the toxicity summaries in Appendix E, there is no clearly stated purpose for each chemical. Nor is information about the transportation, management, spill prevention and legislative requirements provided for each individual chemical.

Lock the Gate further submits that Origin's assertions about the social and economic benefits of its Beetaloo plans are unjustified and do not warrant the environmental risks posed by unconventional gas exploration.

Origin has not provided adequate assurance that the environmental costs of its planned activities in the NT will be counterbalanced by tangible benefits to affected communities. The EMP states that 'the potential social and economic effects associated with the proposed exploration activities are considered to be minor and predominantly positive',⁴⁹ but neither evidence for this statement nor details about these 'positive' social and economic effects is provided. This is unsurprising, given that Origin's Corporate Affairs Manager has previously stated that:

*'...realistically, the shale gas industry is very hard to get into. The workforce is generally highly specialised... which can make sourcing appropriate local labour challenging. While Origin tries to employ local contractors where practicable, it is usually more efficient for us to work with large contractors who can provide multiple services for us, and these contractors are often not NT based.'*⁵⁰

Lock the Gate submits that in light of the numerous ways in which the ORI10-1 EMP fails to meet the approval criteria for EMPs under the Regulations, it must be rejected.

Thank you for considering our submission. Please do not hesitate to contact us via the email address provided below should you require any additional information relating to the points raised in this submission.

Yours sincerely,

Sam Moorhead
Lock the Gate

⁴⁹ EMP, 169.

⁵⁰ Stephanie Stonier, speaking at the Barkly Future Forum, March 2020.

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Appendix A: Scope of ORI10-1 EMP

The EMP covers proposed activities across Origin's Exploration Permit (EP) 98 and 76 tenement areas, and includes the drilling of four new wells, as well as hydraulic fracturing and well testing across both these new wells and two existing exploration wells. The following table summarises the scope and proposed impacts of the EMP activities for ease of reference, noting that Origin only provides separate site activity descriptions.⁵¹

Activity	Amungee scope	Velkerri scope	Total EMP impact
Land clearing and construction	- Lease pad expansion from 3.56ha to 10ha - Camp pad expansion from 0.9ha to 1.2ha - Two E&A well cellars and conductors - Helipad and laydown area, up to 2ha - Fenceline and firebreak, 4ha - Drilling sump, <5,000m³ - Site bund for wastewater storage	Two E&A well cellars and conductors	12.74ha additional disturbance footprint
Drilling of water bores	Up to four bores	<i>None indicated</i>	Four bores additional
Traffic movements (daily during mobilisation & demobilisation)	(44 x 2) traffic movements / day (mobilisation + demobilisation)	(44 x 2) traffic movements / day (mobilisation + demobilisation)	176 / day (unclear over how many days)
Well drilling & completion	Two new horizontal wells	Two new horizontal wells	Four new wells
Well testing	One existing well	All three wells	Four wells
Hydraulic fracture stimulation	HFS of two new wells; 1 stimulation x 25 stages per well	HFS of two new wells; 1 stimulation x 25 stages per well	4 stimulations 100 stages
Groundwater extraction	110ML	110ML	220ML
Wastewater quantity & treatment	- Flowback: 12ML/well (30% of injected fluid) - 24ML - Drilling fluid: 4ML - Predicted max volume stored at the site: 14.11ML - Treated on-site through evaporation	- Flowback: 12ML/well (30% of injected fluid) - 24ML - Drilling fluid: 4ML - Predicted max volume stored at the site: 14.91ML - Treated on-site through evaporation	56ML

⁵¹ EMP, Table 1, pp1ff.

Appendix B: Legislative and policy context

The Beetaloo Sub-basin has been identified by the Northern Territory and Australian Governments as a highly prospective region for the extraction of unconventional (shale) gas. The Beetaloo is a priority basin for development under the Australian Government's conceptual 'gas-fired recovery' plan for restoring the national economy from the impacts of COVID-19, and has been the subject of a 'Strategic Basin Plan' released in January 2021.⁵² The key consequence of this designation has been significant financial and policy commitments made to the onshore gas industry, including the grant of \$21 million to Empire Energy to undertake exploration activities and repeated assertions of Australia's long-term need for natural gas by prominent Government figures.

The Northern Territory Government ('NTG') has similarly committed to pursuing the development of an onshore gas industry in the NT, despite prominent and persistent community opposition.⁵³ The NTG commissioned the Scientific Inquiry into Hydraulic Fracturing in the NT to provide an assessment of the potential social and environmental risks of fracking. The 'Pepper Inquiry' handed down its final report in 2018. The Inquiry made 135 recommendations, and concluded that it was only the implementation of all these recommendations that could 'create the framework that will mitigate the risks associated with any onshore shale gas industry in the NT'.⁵⁴

Notably, despite finding that its suite of recommendations could mitigate the risks of onshore gas, the Pepper Inquiry also concluded that:

*'...the Panel has identified four high-priority issues ... in respect of which there is insufficient information to enable a full risk assessment to be conducted for the development of a mature onshore shale gas industry. These are: sustainable groundwater use; contamination of groundwater with hydraulic fracturing fluids and wastewater from leaky wells; groundwater contamination from on-site surface spills of wastewater; and the effect of these water quantity and quality issues on either surface and/or groundwater-dependent ecosystems.'*⁵⁵

The NTG has been progressing its work on the Pepper Inquiry recommendations, but its latest progress report indicates that only 65 of the 135 recommendations have been fully implemented.⁵⁶

⁵² Australian Government, 'Unlocking the Beetaloo: the Beetaloo Strategic Basin Plan' (January 2021) <<https://www.industry.gov.au/data-and-publications/unlocking-the-beetaloo-the-beetaloo-strategic-basin-plan>>

⁵³ See, e.g., "'Not now, not ever": NT Traditional Owners remain united against fracking' (2 August 2021) SBS <<https://www.sbs.com.au/news/not-now-not-ever-nt-traditional-owners-remain-united-against-gas-fracking/cf9140a9-8fcc-4c80-836d-0a6ca4efde14>>; Christopher Knauss, "'Grave mistake": climate scientists issue dire warning over Beetaloo Basin fracking plans' (23 September 2021) *The Guardian* <<https://www.theguardian.com/australia-news/2021/sep/23/grave-mistake-climate-scientists-issue-dire-warning-over-beetaloo-basin-fracking-plans>>.

⁵⁴ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 454.

⁵⁵ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 166.

⁵⁶ Northern Territory Government, 'Ninth Hydraulic Fracturing Implementation Progress Update' (14 December 2021) <<https://hydraulicfracturing.nt.gov.au/resources/community-bulletins/community-bulletin-47>>.

Major recommendations that have not yet been implemented include:

- The application of the 'water trigger' under the *Environment Protection and Biodiversity Conservation Act 1999* Cth to onshore gas development (*Rec 7.3*)
- The completion of a Strategic Regional Environmental Baseline Assessment for the Beetaloo Sub-basin (*Rec. 7.5*)
- The development of a Water Allocation Plan for the aquifers underlying and adjoining the Beetaloo Sub-basin (*Rec. 7.7*)
- Regulation or policies to ensure that there is no net increase in the lifecycle greenhouse gas emissions from any onshore gas produced in the NT (*Rec. 9.8*)

The NTG released a 'Greenhouse Gas Policy for Major Emitters' in 2021 and undertook community consultation on the draft policy. No further engagement has occurred, nor has the final policy been released.

The NTG is also midway through a reform agenda for water regulation,⁵⁷ and released a 'Directions Paper' on a proposed *Strategic Water Plan* in December 2021. Onshore gas was not specifically mentioned in the Directions Paper.

⁵⁷ See Northern Territory Government, 'Water Regulatory Reform 2021-23 - Information Paper' (1 September 2021).

Analysis of the NT Government's Implementation of the Fracking Inquiry Recommendations

INTRODUCTION

The EDO has reviewed the Northern Territory (NT) government's implementation of the findings of the [Scientific Inquiry into Hydraulic Fracturing in the Northern Territory](#) conducted by the Hon. Justice Rachel Pepper (known as the **Pepper Inquiry**). Following a territory-wide moratorium on unconventional shale gas developments, the Pepper Inquiry was established to assess the risks of fracking. The final report of the Pepper Inquiry was released on 27 March 2018. It provides the government with 135 recommendations to mitigate the risks of fracking in the NT, concluding that *"provided that all of the recommendations made in this Report are adopted and implemented in their entirety, not only should the risks associated with an onshore shale gas industry be minimised to an acceptable level, in some instances, they can be avoided altogether."* EDO was assisted in its analysis by Earthjustice, a not for profit with expertise on the impacts of fracking in the United States and internationally.

EDO has reviewed only those Pepper Inquiry recommendations which the government claims to have implemented in full (i.e. marked as '100%' complete in its [progress report](#)). As at 27 October 2021, 64 implementation are marked as completed. The table below sets out the actions recommended by the Pepper Inquiry and evaluates whether the government's implementation claims are justified. The red shaded cells indicate those recommendations which, in our view, had not been properly implemented. Those recommendations that appear to be partially complete or have minor issues with implementation are marked in yellow. Those that are adequately addressed are marked in green.

It is noted that, in implementing these recommendations, the NT Government worked with independent scientific experts to develop a Code of Practice (**Code**), which is legally enforceable through the *Petroleum (Environment) Regulations 2016* (NT) (**PER**). The finalised Code was published on 12 June 2019 and can be found [here](#). Further, pursuant to the Petroleum Act, the NT government also published the Schedule of Onshore Petroleum Exploration and Production Requirements for the NT (**Schedule**). The latest version, dated 1 June 2021, can be found [here](#).

ANALYSIS

Rec #	Final Report - detailed recommendation	How does the NT government justify the 100% implementation status?	How has the NT government implemented this recommendation?	Analysis of implementation of the Fracking Inquiry's recommendation
5.1	<i>That prior to the grant of any further exploration approvals, the Government mandates an enforceable code of practice setting out minimum requirements for the decommissioning of any onshore shale gas wells in the NT.</i> <i>The development of this code must draw on world-leading practice. It must be sufficiently flexible to accommodate improved decommissioning technologies. The code must include a requirement that:</i> • wells undergo pressure and cement integrity tests as part of the decommissioning process, with any identified defects to be repaired prior to abandoning the well; and • cement plugs be placed to isolate critical formations and that testing must be conducted to confirm that the plugs have been properly set in the well.	The NT Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019 and can be found here.	Code of Practice Part B.4.15 of the Code addresses the well suspension and decommissioning requirements: • B.4.15.1 Principles • B.4.15.2 Mandatory requirements for decommissioning wells • B.4.15.3 Cement plug requirements and validation methods	The Code adequately addresses recommendation 5.1.
5.3	<i>That prior to the grant of any further exploration approvals, in consultation with industry and other stakeholders, the Government develops an enforceable code of practice setting out the minimum requirements that must be met to ensure the integrity of onshore shale gas wells in the NT. This code must require that:</i> • all onshore shale gas wells (including exploration wells constructed for the purposes of production	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised	Code of Practice <u>B.3 Well operations management plans</u> <i>Interest holders shall have a well operations management plan (WOMP) approved for regulated well activities, as required by the Schedule [of Onshore Petroleum Exploration and Production Requirements]. WOMPs must address the mandatory requirements set out in this Code.</i> <u>B.4.1 Well integrity management</u> <u>B.4.1.2 Mandatory requirements</u>	The Code does not adequately address recommendation 5.3. <u>Comments</u> • Neither the Code nor the Schedule contain any specification or requirement for a minimum Category 9 standard, which includes 4 barriers (see the Inquiry's report at Table 5.2 on page 62). Instead, B.4.3.2(b) requires only that there be <i>"at least two verified well barriers."</i>

Rec #	Final Report - detailed recommendation	How does the NT government justify the 100% implementation status?	How has the NT government implemented this recommendation?	Analysis of implementation of the Fracking Inquiry's recommendation
	testing) be constructed to at least a Category 9 standard (unless it can be demonstrated by performance modelling/assessment that an alternative design would give at least an equivalent level of protection), with cementing extending up to at least the shallowest problematic hydrocarbon-bearing, organic carbon rich or saline aquifer zone; • all wells be fully tested for integrity before and after hydraulic fracturing and that the results be independently certified, with the immediate remediation of identified issues being required; • an ongoing program of integrity testing be established for each well during its operational life. For example, every two years initially for a period of 10 years and then at five-yearly intervals thereafter to ensure that if any issues develop, they are detected early and remediated; and • the results of all well integrity testing programs and any remedial actions undertaken be published as soon as they are available.	Code was published on 12 June 2019 and can be found here.	(a) <i>The interest holder must be able to demonstrate that they have a system or process for managing well integrity throughout the whole well life cycle that complies with ISO 16530- 1:2017 Well integrity - Part 1: Life cycle governance. This system or process must include a well integrity management system.</i> ... (c) <i>A well integrity testing and validation program must be established for all wells, that includes:</i> i. <i>subsurface integrity testing (SIT);</i> ii. <i>well integrity and well barrier validation requirements in accordance with this Code;</i> iii. <i>a minimum testing frequency for wells in the operational phase of their lifecycle that is commensurate with well's well integrity risks as per the accepted WOMP; and</i> iv. <i>triggers for well integrity testing based on:</i> a. <i>well integrity monitoring; and</i> b. <i>substantive changes to well barriers or well operating envelope.</i> Part B.4.3 of the Code, "Well design and well barriers" also refers to well integrity management: • B.4.3.2(b) mandates that wells maintain two barriers. • B.4.3.2(c) offers several cases in which an interest holder may be able to justify using fewer than two barriers. Schedule <u>103 Independent validation and verification</u> <i>The construction, alteration or reconstruction of drilling and production equipment, wells, safety systems and emergency facilities shall not be undertaken without approval and, where required by the Minister, validation and or verification by an independent validator.</i> <u>109 Inspectors</u> (1) <i>Where an Inspector considers:</i> (a) <i>that the integrity of any operating system, well, pipeline or facility has been, or is in danger of being, compromised; or</i> (b) <i>that work being carried out:</i> (i) <i>is contravening a provision of the Act, these requirements, or any additional conditions imposed by the Minister; or</i> (ii) <i>is compromising, or may compromise, the integrity of an operating system; or</i> (iii) <i>is not in accordance with good oilfield practice, the Inspector may, by a notice in writing, refer the matter to the relevant Operator.</i> (2) <i>The notice shall specify a day by which the Operator shall report to an Inspector on the action taken in relation to the notice.</i>	• Neither the Code nor the Schedule explicitly require the results of well integrity testing programs and remedial actions to be published "as soon as they are available." • Several well integrity "requirements" in the Code are identified as "preferred," whereas applying the spirit of the Inquiry's recommendations would likely have led to these being listed in the Code as "mandatory." Examples of "preferred" requirements which should be mandatory include: ○ B.4.1.3(a): "Well barriers along with their related function and associated acceptance criteria should be identified and monitored/tested as necessary. The barriers should be maintained as necessary through the well life cycle and re-established or compensated for when impaired. Parameters that could affect well integrity negatively should be monitored." ○ B.4.3.3(a): "Review information available from previous drilling (offset wells) near the proposed well to assist in the design process for new wells." ○ B.4.3.3(b): "Review information on geological strata and formations, and fluids within them, that the well may intersect and any hazards which such strata and formations may contain." ○ B.4.3.3(i): "Well design should be completed by competent personnel..."

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			(3) An Inspector may: (a) direct that no further work be carried out until the matter referred to in the notice is remedied; (b) give directions as to the measures to be taken to remedy the matter referred to in the notice, which directions may include: (i) that plant be repaired or replaced; (ii) that any part of the environment be restored or rehabilitated; (iii) that a particular work practice be altered or discontinued. (4) An Operator shall not contravene, or fail to comply with, a notice given under this requirement. (5) An Operator shall not re-commence operations without approval. <u>302a Well barrier integrity validation reporting</u> It is a requirement that, on any occasion a titleholder validates, installs, replaces or modifies a well barrier, or identifies degraded performance from a barrier, the titleholder must submit a "Well Barrier Integrity Validation" report as per the Department's guideline: "Well Barrier Integrity Validation Reporting". The Well Barrier Integrity Validation Report (WBIV) is to be uploaded on the Department's website. In accordance with Clause 103, and before submission to the Department, the titleholder will have the following results in the WBIV certified by an independent and reputable validator. - Results of any well integrity tests conducted before and after hydraulic fracturing; - Results of any integrity tests after a well barrier is installed, replaced or modified. <u>421 Protection of completed wells</u> (1) A well that has not been suspended or plugged and abandoned shall be inspected at intervals not exceeding six months. (2) On an inspection under Sub-Clause (2): (a) all tubing and annulus pressures shall be measured; (b) any evidence of communication shall be evaluated; (c) integrity of surface equipment including valves, gauges, vents and joints shall be assessed; and (d) the extent of any necessary repairs or maintenance shall be determined. At approved intervals but not less frequent than 5 years the Operator shall run corrosion logs to determine the rate of corrosion of the production casing.	
5.4	That prior to the grant of any further exploration approvals, gas companies be required to develop and implement a well integrity management	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice	This recommendation is addressed in several places within the Code and Schedule. Code of Practice <u>B.3 Well operations management plans</u> (see recommendation 5.3)	More expertise is needed to assess whether the Code adequately addresses recommendation 5.3. <u>Comments</u> Please also see comments for recommendation 5.3.

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	system (WIMS) for each well complying with ISO 16530-1:2017. <i>That prior to the grant of any further exploration approvals, each well must have an approved well management plan (WOMP) in place that contains, at a minimum, the following elements:</i> • <i>consideration of well integrity management across the well life cycle;</i> • <i>a well integrity risk management process that documents how well integrity hazards are identified and risks assessed;</i> • <i>a well barrier plan containing well barrier performance standards, with specific reference to protection measures for beneficial use aquifers;</i> • <i>a process for periodically verifying well barrier integrity through the operational life of the well and immediately prior to abandonment, and a system for reporting to the regulator the findings from integrity assessments;</i> • <i>characterisation data for aquifers, saline water zones, and gas bearing zones in the formations intersected during drilling; and</i> • <i>monitoring methods to be used to detect migration of methane along the outside of the casing.</i>	relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019 and can be found here. Pursuant to the Petroleum Act, the NT government has also published the Schedule of Onshore Petroleum Exploration and Production Requirements, Northern Territory of Australia; the latest version, dated 1 June 2021, can be found here.	<u>B.4.1 Well Integrity Management</u> (see recommendation 5.3) <u>B.4.2 Aquifer protection</u> <u>B.4.2.1 Principles</u> The protection of aquifers requires the following to be achieved: <i>(a) well-defined stratigraphic definition to the base of the deepest recognised aquifer in the local area prior to drilling...</i> <u>B.4.2.2 Mandatory requirements</u> <i>...(e) If an aquifer is discovered during drilling that was not identified prior to commencement of drilling, notification to the Minister is required under regulation 23 of the PER.</i> This notification should identify whether or not environmental values of the aquifer have been adequately addressed under the EMP and whether or not the EMP requires revision under regulation 17 of the PER. <u>B.4.3 Well design and well barriers.</u> <i>...(c) where one or more of the following circumstances applies, less than two verified barriers may be provided:</i> <i>during top hole or surface hole drilling where shallow hydrocarbon or water flow risk has been assessed as being negligible;</i> <i>during diverter drilling;</i> <i>during well decommissioning when two formations need to be isolated from one another and two barriers are not feasible, and a continuous cement plug extending minimum 50m above to 50m below the interface is placed instead; or</i> <i>in other circumstances during well life cycle activities when a risk assessment demonstrates that the same level of risk can be achieved as if two verified barriers were in place.</i> Schedule <u>301c Contents of well operations management plan</u> <i>(1) The matters that must be included in a well operations management plan are as follows:</i> <i>A description of the well, and the well activities relating to the well, to which the plan applies;</i> <i>A description of the risk management process used to identify and assess risks to the integrity of the well;</i> <i>A description and explanation of the design, construction, operation and management of the well, and conduct of well activities, showing how risks to the integrity of the well will be reduced to as low as reasonably practicable;</i> NOTE: A separate well plan summary, detailing the location of all known faults and geo-hazards, must be submitted for uploading on the Department's website.	• The details and exceptions to the recommendation are quite technical and would require assessment by an expert in well mechanics. • Thus, we recommend that an expert be retained to determine whether the technical requirements of the Code and Schedule fully implement this recommendation. • In particular, the expert could assess: 1) Whether the "Preferred Requirements" under Code B.4.3.3 should instead be "Mandatory Requirements"; and 2) the reasonableness and safety of the following exceptions in the Code to the requirement to have two verified barriers in place (as set out in B.4.3.2).

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			(d) A description of the performance outcomes against which the performance of the titleholder in maintaining the integrity of the well is to be measured; (e) A description of the control measures that will be in place to ensure that the risks to the integrity of the well will be reduced to as low as reasonably practicable throughout the life of the well, including periods when the well is not operational (dormant) but has not been permanently decommissioned; (f) A description of the performance standards for the control measures identified under paragraph (e); (g) The measurement criteria that will be used to determine whether the performance outcomes identified under paragraph (d) and the performance standards under paragraph (f) are being met; (h) A description of the monitoring, audit and well integrity assurance processes that will be implemented to ensure the performance outcomes and performance standards are being met throughout the life of the well including periods when the well is not operational (dormant) but has not been permanently plugged and abandoned (decommissioned). ... (i) A description of the measures and arrangements that will be in place for the suspension and abandonment of the well, showing: i. How, during the process of suspending or abandoning the well, risks to the integrity of the well will be reduced to as low as reasonably practicable; and ii. How the actions taken during that process will ensure that the integrity of the well is maintained while the well is suspended or abandoned; (j) a description of the measures and arrangements that will be used to ensure that contractors and service providers undertaking well activities are aware of their responsibilities in relation to the maintenance of the integrity of the well, and have appropriate competencies and training; (k) description of the measures and arrangements that will be used to regain control of the well if there is a loss of containment; (l) a timetable for carrying out and completing the well activities to which the plan applies. (m) a tabulated summary referencing where the specific requirements of Clause 301c are addressed in the WOMP. (n) a tabulated summary referencing where the relevant Principles and Mandatory Requirements of the Code are addressed in the WOMP. (2) The Regulator may give a titleholder permission, notified in writing, not to include matters in a well operations management plan if those matters are regulated in the title.	

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			(3) A well operations management plan may include any other information that the titleholder believes is relevant. See also, Schedule, clause 302a, as copied above in recommendation 5.3.	
5.5a	That prior to the grant of any further exploration approvals, in consultation with the gas industry and the community, the Government develops a wastewater management framework for any onshore shale gas industry. Consideration must be given to the likely volumes and nature of wastewaters that will be produced by the industry during the exploration and production phases. That the framework for managing wastewater includes an auditable chain of custody system for the transport of wastewater (including by pipelines) that enables source-to-delivery tracking of wastewater. That the absence of any treatment and disposal facilities in the NT for wastewater and brines produced by the gas industry be addressed as a matter of priority. [Note that the government divided this recommendation into 5.5a – which consists of the first two paragraphs – and 5.5b – which consists of the final paragraph.]	The mandatory Code of Practice addresses waste water management requirements which allowed exploration to recommence in mid-2019.	This recommendation should be implemented in its entirety before exploration permits are granted, as per the Inquiry. However, the government has divided this into two recommendations (5.5a and 5.5b). According to the government, 5.5a includes the first two paragraphs of 5.5, whilst 5.5b includes the final paragraph. The government says it will implement 5.5b by December 2021. In order to address 5.5a, the following has been included in the Code of Practice. Code of Practice <u>C.3 Wastewater management framework</u> ... The components of the wastewater management framework ... include: (a) Estimate the quantities and quality of water and wastewater from the petroleum activity. (b) Define the methods and approaches that will be used to store, treat, and reuse water and ultimately dispose of wastewater, including what activities will be undertaken at the site of the approved petroleum activity. (c) Estimate the quantities and quality of wastewater, or wastewater derived solids that will be removed from the petroleum site. (d) Provide for the relevant activities and the environmental risks and environmental impacts they involve in a Wastewater Management Plan (WWMP) and a Spill Management Plan (SMP), as part of the EMP. (e) Monitor, manage and report in accordance with the WWMP and SMP. <u>C.3.1 Waste management hierarchy</u> ... The following tiered questions can be used when identifying efficient water uses and reducing wastewater production: 1. Is the generation of wastewater required or can it be avoided? 2. Can the wastewater generating process be substituted? 3. Can measures be put in place to lower the amount of wastewater generated? 4. Can return wastewater from a task be used, or re-employed elsewhere without treatment? 5. Is it technically, economically and environmentally feasible to return wastewater for reuse following treatment? 6. What are the by-products of treatment (e.g. potentially concentrated waste streams of higher hazard) and how can they be managed / disposed of? 7. How will the final wastewater be disposed of? <u>C.4.2.2 Management of produced water and flowback fluid, Mandatory Requirements</u>	The Code adequately addresses recommendation 5.5a. The government is yet to implement 5.5b, but has committed to do so by December 2021; this should be monitored. <u>Comments</u> The failure to develop new wastewater treatment and disposal facilities in the Northern Territory (5.5b) before granting exploration permits is a serious deficiency because: 1) Exploration drilling also produces significant wastewater. 2) Wastewater reinjection is not to be permitted, as per recommendation 7.9 3) It will take several years for appropriate wastewater facilities to be permitted and developed.

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			<i>(a) All produced water and flowback fluid must be held in above-ground enclosed tanks at all times following release from the petroleum well other than in the following circumstances:</i> <i>i. it is being treated for reuse or disposal</i> <i>ii. it is being reused as explicitly authorised in an approved wastewater management plan (see Section C.7.1)</i> <i>iii. it is being disposed of as explicitly authorised in an approved waste management plan (see Section C.7.1)</i> <i>iv. it is being removed from site for lawful disposal elsewhere...</i> <u>C.4.2.3 Preferred requirements</u> <i>(a) Recycling and re-use of all fluids should be maximised and the off-site transport and disposal of fluids should be minimised.</i> <u>C.5 Monitoring mandatory requirements</u> <u>C.5.1 General monitoring requirements</u> <i>(a) Monitoring programs must be described in the WWMP and SMP and must address the requirements in this section C.5. The WWMP and SMP must identify specific monitoring methods based on the predicted contaminants, volumes and concentrations based on chemicals used in drilling and hydraulic fracturing as well as potentially naturally occurring contaminants and radioactive materials.</i> <i>(b) The quantity and quality of all water stored on site must be monitored...</i> <u>C.6.1 Water and wastewater tracking and reporting requirements</u> <i>(a) The movement of water and wastewater must be tracked and include:</i> <i>i. volumes of produced water and flowback fluid from each well;</i> <i>ii. volumes of water transferred into each tank;</i> <i>iii. estimates for evaporation rates from each tank;</i> <i>iv. volumes of water planned to be, and ultimately, reused in petroleum operations including drilling and hydraulic fracturing;</i> <i>v. volumes of water and wastewater used for other purposes including dust suppression and construction water;</i> <i>vi. volumes of water and wastewater removed from site and its destination (whether by vehicle or pipeline) including details of the licence number of the any licensed waste transporters; and</i> <i>vii. volumes of any spills of water or wastewater.</i> <i>(b) Wastewater tracking must be documented in an auditable chain of custody system.</i> <i>(c) Wastewater tracking must be in accordance with other legislative requirements such as those imposed under the Waste Management and Pollution Control Act 1998 (NT) and the Radiation Protection Act 2004 (NT).</i> <i>(d) Wastewater tracking documentation must be reported to the Minister at least annually in accordance with the framework provided in the EMP.</i> <u>C.7.1 Wastewater Management Plan</u>	

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			(a) An EMP for a petroleum activity must include a wastewater management plan (WWMP). (b) A WWMP must address all water and wastewater management activities which are proposed, as defined in section C.2.1... <u>C.7.1.1 Wastewater treatment, reuse, and disposal</u> The WWMP must include a specific detailed risk assessment for any proposed on site wastewater treatment or disposal which addresses at a minimum the following: (a) For any proposed produced water and flowback fluid treatment processes occurring outside of enclosed tanks (including volume reduction via evaporation) the WWMP must demonstrate that all associated environmental risks and environmental impacts have been reduced to a level that is ALARP and acceptable...	
5.6	That in consultation with the gas industry and the community, specific guidance be implemented by the Government, drawing on protocols and procedures developed in other jurisdictions, for the characterisation, segregation, potential reuse and management of solid wastes produced by any onshore shale gas industry.	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019 and can be found here.	Part C of the Code addresses the characterization and management of both waste fluids and waste solids generated on the well site. Code of Practice <u>C.2.1 Water and wastewater to which this Code applies</u> (e) residual drilling waste, e.g. muds and cuttings (which may be more or less in a solid state) in addition to the fluids mentioned in (a) to (d) above; <u>C.4 Design requirements</u> <u>C.4.1 Drilling fluids</u> <u>C.4.1.1 Principles</u> ...Drilling fluids can have a substantial volume of solids derived from additives (such as bentonite clay) and drill cuttings. Management of drilling fluid as a waste must manage the liquid and solid components appropriately. <u>C.4.1.2 Mandatory requirements</u> (a) Waste drilling fluid shall be managed in accordance with the WWMP and SMP. (b) Any residual drilling fluids and cuttings must be contained within: i. engineered pits, lined with an impermeable membrane with coefficient of permeability of less than 10^{-9} m/s tested in accordance with AS 1289.6.7.2 and with resistance to tearing >0.5kN (ASTM D 4073); static puncture >0.5kN (ASTM D 4833) and tensile strength >20 kN/m (ASTM D 7275); or ii. above ground storage tanks with secondary containment measures as detailed in B.4.16.2(h). (c) An assessment of environmental impacts and environmental risks posed by the drill cuttings and residual drilling fluids must be carried out. (d) Disposal options for drill cuttings and residue from drilling fluids must take into account the results of the assessment in C.4.1.2 (c). (e) Leachability testing of drill cuttings must be undertaken in accordance with the Australian Standard Leaching Procedure (Australian Standards AS4439.2 and 4439.3) by a NATA accredited laboratory The analytes and method for drilling waste assessment for this assessment are shown in Table 10.	Part C of the Code adequately addresses recommendation 5.6. <u>Comments</u> It will be important to ensure that companies appropriately address solids in their wastewater management plans.

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			(f) If seeking approval to dispose of residue from drilling fluids on-site, the EMP that is submitted must include a certification from a suitably qualified third party... (g) Control measures must be implemented to minimise the interactions of wildlife, stock, and human receptors with drilling fluids. <u>C.4.1.3 Preferred requirements</u> (a) Recycling and re-use of all solids waste should be maximised, to minimise volume of waste that must be disposed of on-site or transported and managed off-site.	
7.1	That the Water Act be amended prior to the grant of any further exploration approvals to require gas companies to obtain water extraction licences under that Act.	The Water Act 1992 was amended to remove the exemption apply to the petroleum and ancillary activities and the changes commenced on 31 December 2018. Groundwater extraction for petroleum and ancillary activities now requires a water extraction licence and is regulated under the Water Act 1992.	Water Legislation Amendment Bill 2018 removed the exemption for the petroleum and mining industries from the requirement for a water extraction licence under the Water Act 1992. The latest amendments to the Act and its regulations were finalized on September 29, 2021.	The Code adequately addresses recommendation 5.3. <u>Comments</u> - Existing deficiencies in the Water Act's licensing provisions mean that there is limited transparency and accountability surrounding the water licensing process. - For example, under Part 6A of the Water Act 1992, "Water extraction licence decisions," the Controller is required to give notice of the Controller's "intention to make a water extraction licence decision" within 20 days after the application is lodged "in a newspaper circulating the general locality to which the application relates" (Section 71B). The same process is used to advertise a decision on the licence (Section 71D). Placing a notice in a single newspaper does not seem to be a modern or effective means of informing the public of a licence application or decision.
7.6	That prior to the grant of any further exploration approvals, the use of all surface water resources for any onshore shale gas activity in the NT be prohibited.	Amendments to the Water Act 1992 commenced on 19 June 2019 prohibiting the use of surface water for any petroleum and ancillary activities.	Water Amendment Bill 2019 inserted a prohibition on the use of surface water for fracking and associated offence into the Water Act to implement this recommendation. The Water Act now provides in Division 2 "Taking surface water": <i>Section 45A: No license to take water for petroleum activity</i> <i>The Controller must not grant a licence under section 45 if the proposed beneficial use of water under the licence is petroleum activity.</i> Note that "water" is defined in section 43 to mean "water flowing or contained in a waterway."	This Water Amendment Bill 2019 adequately addresses recommendation 7.6.
7.8a	That the following measures be mandated to ensure that any onshore shale gas development does not cause unacceptable local drawdown of aquifers: that prior to the grant of any further exploration approvals, the extraction of water from water bores to supply water for hydraulic fracturing be prohibited within at least 1 km of existing or proposed groundwater bores (that are used for domestic or stock use) unless hydrogeological	Amendments to the Water Act 1992 commenced on 19 June 2019 to stipulate that authorisation for water extraction for hydraulic fracturing purposes cannot be given within 1km of an existing bore without the required landholder agreement or scientific investigation.	This recommendation should be implemented in its entirety before exploration permits are granted. However, the government has divided this into two recommendations (7.8a and 7.8b). According to the government, 7.8a includes only the first point of 7.8, while 7.8b includes the final three points. The government says it will implement 7.8b by December 2021. In order to address 7.8a, the following has been included in the Code of Practice and Water Act:	The Code and Water Act adequately address recommendation 7.8a. <u>Comments</u> - Given the importance of having a complete understanding the resource for deciding on the well-bore minimum distances, the SREBA study on groundwater quantity should have been completed before exploration approvals were granted. - Given the importance of the recommendations in 7.8b to groundwater supplies, the spirit of the

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	<i>investigations and groundwater modelling, including the SREBA, indicate that a different distance is appropriate, or if the landholder agrees to a variation of this distance;</i> • that relevant WAPs (water allocation plans) include provisions that adequately control both the rate and volume of water extraction by the gas companies; • that gas companies be required, at their expense, to monitor drawdown in local water supply bores; and • that gas companies be required to immediately 'make good' and rectify any problems if the drawdown is found to be excessive. [Note that the government divided this recommendation into 7.8(a) – which consists of the first bullet point only – and 7.8(b) – which consists of the final three bullet points.]		Code of Practice <u>A.3.2 Well pad site selection requirements</u> <u>A.3.2.2 Mandatory requirements</u> (d) <i>There must be a minimum distance of at least 1km between an existing water supply bore used for domestic or stock consumption and a well pad unless:</i> i. <i>the owner of the water supply bore consents in writing to the location of the well pad; or</i> ii. <i>hydrogeological investigations and ground water modelling indicate that a different distance is appropriate.</i> Water Amendment Bill 2019 <u>Section 60(A) License to take ground water for hydraulic fracturing</u> (1) <i>This section applies in relation to an application for a license, or a license proposed to be granted on the Controller's own initiative, to take water from a bore if:</i> (a) <i>the proposed beneficial use of water under the license is petroleum activity that includes hydraulic fracturing; and</i> (b) <i>one or more designated bores are located within 1 km of the bore.</i> (2) <i>The Controller must not grant the license unless:</i> (a) <i>the owner of each designated bore mentioned in subsection (1)(b) consents to the grant of the license; or</i> (b) <i>hydrogeological investigations and ground water monitoring indicate that the activities under the license will not have any adverse effect on the supply of water to any designated bore mentioned in subsection (1)(b).</i> “Designated bore” is defined in section 60A(3) to include a bore used for rural stock and domestic beneficial use and a bore in relation to which a water extraction license has been granted, among other things.	recommendation calls for them to be implemented before exploration activities drawing down the aquifers begin. This has not occurred. Moreover, it is odd that the requirements of 7.8b were not built into the Code and <i>Water Act</i> at an earlier stage, and will need to be assessed separately in December. Specifically: ○ WAPs have not yet been developed for the Beetaloo Basin (recommendation 7.7). ○ The Code and <i>Water Act</i> do not require that gas companies engage in drawdown monitoring. Instead, the <i>Water Act</i> mandates that the Controller “<i>ensure as far as possible that a continuous program for the assessment of water resources of the Territory is carried out, including the investigation collection, collation and analysis of data concerning the occurrence, volume, flow, characteristics, quality, flood potential and use of water resources.</i>” ○ The Code does not contain “make good” requirements. Operators should be required to make good if they drawdown local aquifers excessively, as in the recommendation. • Given the challenges of implementing these requirements and their importance, the plans for implementing recommendation 7.8b that come out in December 2021 should be scrutinized closely.
7.9	<i>That prior to the grant of any further exploration approvals, the reinjection of wastewater into deep aquifers and conventional reservoirs and the reinjection of treated or untreated wastewaters (including brines) into aquifers be prohibited, unless full scientific investigations determine that all risks associated with these practices can be mitigated.</i>	Amendments to the <i>Water Act</i> 1992 commenced on 19 June 2019 to stipulate that authorisation cannot be given for the reinjection of hydraulic fracturing waste into aquifers.	Water Act 1992 <u>67 Grant of Recharge License</u> (4) <i>The Controller must not grant a license that permits the increase of water contained in an aquifer with water that is or contains hydraulic fracturing waste.</i> The <i>Water Act</i> defines an aquifer as “<i>a geological structure or formation, or an artificial landfill, permeated or capable of being permeated permanently or intermittently with water.</i>”	The <i>Water Act</i> does not adequately address recommendation 7.9. <u>Comments</u> • Section 67(4) of the <i>Water Act</i> bans injection of waste into aquifers, though whether the “conventional reservoirs” explicitly mentioned in the recommendation are necessarily aquifers as defined in the <i>Act</i> is unclear, and therefore whether they could potentially be exempted from this <i>Water Act</i> restriction. • A direct ban on reinjection of wastewater, whether treated or untreated, into all aquifers and conventional reservoirs would be more faithful to the recommendation. • There is no codification of the final clause of the recommendation that requires “<i>full scientific</i>”

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				<i>investigations [to] determine that all risks associated with these practices can be mitigated."</i>
7.10	That prior to the grant of any further exploration approvals, the following information about hydraulic fracturing fluids must, as a matter of law, be reported and publicly disclosed before any exploration activities and production activities are carried out: • the identities, volumes and concentrations of chemicals (including environmentally relevant chemical species present as contaminants in the bulk chemicals) to be used; • the purpose of the chemicals; • how and where the chemicals will be managed and transported on-site, including how spills will be prevented, and if spills do occur, how they will be remediated and managed; and • the laws that apply to the management of the chemicals and how they are enforced. That the following information about flowback and produced water must be reported and publicly disclosed online as soon as it becomes available: • the identity and concentrations of chemicals and NORMs found in that water; • how and where the chemicals and NORMs will be managed, transported and treated, including how spills will be prevented, and if spills occur, how they will be remediated and managed; and • the laws that apply to the management of the chemicals and NORMs and how they are enforced.	The Petroleum (Environment) Regulations 2016 were amended on 19 December 2018 to meet this recommendation, which requires that the information specified in the recommendation is included in an Environment Management Plan (EMP), is reported and made available online.	Code of Practice <u>B.4.13 Hydraulic stimulation and flowback operations</u> <u>B.4.13.2 Mandatory requirements</u> <i>(c) In accordance with Schedule 1, Part 2, Clause 6 and Part 3, Clause 11 of the PER, the Implementation Strategy of an EMP for petroleum activities that include hydraulic fracture stimulation must include details of monitoring and reporting of the as-pumped composition of any hydraulic fracturing fluid used. As a minimum, the following must be recorded and reported for each stage (where a stage in this context means all fluids pumped at a particular depth interval):</i> a. total volume of hydraulic fracturing fluid pumped, b. quality of water used (tested for analytes in section C.8 of this Code. Analyses do not need to be repeated if the same water source is used for multiple stages) and c. typical and maximum concentrations of chemicals or other substances used. The Petroleum (Environment) Regulations were amended to require an EMP for hydraulic fracturing to include “the details about any chemical or other substance that may be in, or added to, any treatment fluids to be used in the course of the activity” (reg. 8(4)(ba)). In addition, Schedule 1 to the PER, which outlines the information to be included in an EMP, provides: 4A Chemicals used in the course of hydraulic fracturing If the activity is hydraulic fracturing, a plan must specify the following information in relation to any chemical or other substance that may be in, or added to, any treatment fluids to be used in the course of the activity: (a) the identity of the chemical or other substance; (b) the volume of the chemical or other substance; (c) the concentration of the chemical or other substance; (d) the purpose of the chemical or other substance; (e) details regarding how the chemical or other substance will be managed; (f) details regarding how the chemical or other substance will be transported on-site; (g) details regarding any action proposed to be taken to prevent a spill of the chemical or other substance; (h) the requirements in relation to the management of the chemical or other substance of the prescribed chemical legislation. Note: for clause 4A(e), “managed” includes handling, collecting and storing any chemical or other substance. In relation to flowback and produced water, the PER was amended to require reporting of flowback fluid and produced water “within 6 months” of the “flowback occurring” (s 37A(1))/the produced water being extracted” (s 37B(1)). <u>Part 3A Reporting requirements for hydraulic fracturing</u>	The Code and PER largely address recommendation 7.10, with some omissions, as below. <u>Comments</u> • Reporting on flowback fluid only within six months of the flowback occurring seems to contravene the recommendation that the information be “reported and publicly disclosed online as soon as it becomes available.” • In some cases of chemical reporting in the EMP, the chemical data sheets state the following: “The product contains other ingredients which do not contribute to the overall classification. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.” • We note the NT Government's implementation progress website does not mention the second part of this recommendation focused on flowback and produced water.

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			37A Report about flowback fluid <i>(1) An interest holder in relation to an activity that includes hydraulic fracturing must give the Minister a report about flowback fluid within 6 months of the flowback occurring.</i> <i>(2) The report must contain the following information:</i> <i>(a) the identity of any chemical or NORM found in the flowback fluid;</i> <i>(b) the concentration of any chemical or NORM found in the flowback fluid;</i> <i>(c) details regarding how any chemical or NORM has been or will be managed;</i> <i>(d) details regarding how any chemical or NORM has been or will be transported;</i> <i>(e) details regarding how any chemical or NORM has been or will be treated;</i> <i>(f) details regarding any action proposed to be taken to prevent any chemical or NORM spill;</i> <i>(g) details of the emergency contingency plan included in the environment management plan to which the activity relates;</i> <i>(h) the requirements in relation to the management of any chemical or NORM of the prescribed chemical legislation.</i> ... <i>(5) The Minister must publish the report on the Agency's website within 5 business days after receiving the report.</i> <i>(6) In this regulation:</i> <i>flowback fluid means fluid that is a mixture of hydraulic fracturing fluid and formation fluid that is allowed to flow from the well following hydraulic fracturing.</i> 37B Report about produced water <i>(1) An interest holder in relation to an activity that includes hydraulic fracturing must give the Minister a report about produced water within 6 months of the produced water being extracted.</i> <i>(2) The report must contain the following information:</i> <i>(a) the identity of any chemical or NORM found in the produced water;</i> <i>(b) the concentration of any chemical or NORM found in the produced water;</i> <i>(c) details regarding how any chemical or NORM has been or will be managed;</i> <i>(d) details regarding how any chemical or NORM has been or will be transported;</i> <i>(e) details regarding how any chemical or NORM has been or will be treated;</i> <i>(f) details regarding any action proposed to be taken to prevent any chemical or NORM spill;</i> <i>(g) details of the emergency contingency plan included in the environment management plan to which the activity relates;</i> <i>(h) the requirements in relation to the management of any chemical or NORM of the prescribed chemical legislation.</i> ... <i>(5) The Minister must publish the report on the Agency's website within 5 business days after receiving the report.</i> <i>(6) In this regulation:</i> <i>produced water means naturally occurring water that is extracted from the geological formation following hydraulic fracturing.</i> Note also that the Code of Practice includes the following:	

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			<u>C.7 Mandatory requirements for management plans for wastewater and spills</u> <u>C.7.2 Spill management plan</u> (a) An EMP for a petroleum activity must include a Spill Management Plan (SMP). ... (d) The SMP must contain the following: i. a description of the chemicals, water and wastewater and the way that they will be stored , transported and transferred as part of petroleum activity, this includes fluids which are mixed and/or pumped on site....	
7.11	That prior to the grant of any further exploration approvals, in order to minimise the risk of groundwater contamination from leaky gas wells: • all wells subject to hydraulic fracturing must be constructed to at least Category 9 (or equivalent) and tested to ensure well integrity before and after hydraulic fracturing, with the integrity test results certified by the regulator and publicly disclosed online; • a minimum offset distance of at least 1 km between water supply bores and well pads must be adopted unless site-specific information of the kind described in Recommendation 7.8 is available to the contrary; • where a well is hydraulically fractured, monitoring of groundwater be undertaken around each well pad to detect any groundwater contamination using multilevel observation bores to ensure full coverage of the horizon, of any aquifer(s) containing water of sufficient quality to be of value for environmental or consumptive use; • all existing well pads are to be equipped with multilevel observation bores (as above); • as a minimum, electrical conductivity data from each level of the monitor bore array should be measured and results electronically transmitted from the well pad site to the regulator as soon as they are available. The utility of continuous monitoring for other parameters should be reviewed every five years or as soon as advances in monitoring technology become commercially available; and • other water quality indicators, as determined by the regulator, should be measured quarterly, with the results publicly disclosed online as soon as reasonably practical from the date of sampling. This monitoring regime should continue for three	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. The Code requires proponents to comply with the Preliminary Guideline for Groundwater monitoring bores for Exploration Petroleum Wells in the Beetaloo Sub-Basin which was finalised and distributed on 29 November 2018. The guideline has been uploaded to the DEPWS website. Monitoring has commenced in Beetaloo Sub-basin to enable the 6 month baseline monitoring requirement to be achieved	Code of Practice <u>A.3.2 Well pad site selection requirements</u> <u>A.3.2.2 Mandatory requirement</u> (d) There must be a minimum distance of at least 1km between an existing water supply bore used for domestic or stock consumption and a well pad unless: i. the owner of the water supply bore consents in writing to the location of the well pad; or i. hydrogeological investigations and ground water modelling indicate that a different distance is appropriate. <u>B.4.1 Well integrity management</u> <u>B.4.1.2 Mandatory requirements</u> (c) A well integrity testing and validation program must be established for all wells, that includes: i. subsurface integrity testing (SIT); ii. well integrity and well barrier validation requirements in accordance with this Code; iii. a minimum testing frequency for wells in the operational phase of their lifecycle that is commensurate with well's well integrity risks as per the accepted WOMP; and iv. triggers for well integrity testing based on: a. well integrity monitoring; and b. substantive changes to well barriers or well operating envelope. <u>B.4.3. Well design and well barriers</u> <u>B.4.3.2. Mandatory requirements</u> Wells must be designed such that: ... (b) unless paragraph (c) applies, they are constructed, maintained and decommissioned in such a manner that it can be demonstrated there are at least two verified well barriers between: i. a hydrocarbon bearing zone and aquifers and the surface; and ii. deep, saline water bearing formations and aquifers/the surface. (c) where one or more of the following circumstances applies, less than two verified barriers may be provided:	The Code largely addresses recommendation 7.11, with one exception. <u>Comments</u> • See concerns in recommendation 5.3 in relation to the failure to require Category 9 well construction.

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	<i>years and be reviewed for suitability by the regulator.</i>		<i>i. during top hole or surface hole drilling where shallow hydrocarbon or water flow risk has been assessed as being negligible;</i> <i>ii. during diverter drilling;</i> <i>iii. during well decommissioning when two formations need to be isolated from one another and two barriers are not feasible, and a continuous cement plug extending minimum 50m above to 50m below the interface is placed instead; or</i> <i>iv. in other circumstances during well life cycle activities when a risk assessment demonstrates that the same level of risk can be achieved as if two verified barriers were in place.</i> <u>B.4.17 Groundwater monitoring</u> <u>B.4.17.2 Mandatory requirements</u> ... (b) Where there is an intention to hydraulically fracture the well(s) at a well site... (ii) Electrical conductivity data from the monitoring bore(s) must be measured as soon as practicable after the completion of construction of the monitoring bore(s) until decommissioning of all wells on the well site. Results submitted to the regulator: (i) by electronic means from the well site as soon as they are available; (ii) if this is unachievable to implement in the first stages of exploration, an alternative plan and timetable may be proposed before hydraulic fracturing commences, detailing how electrical conductivity information will be regularly submitted. (c) Any guidelines published by the Northern Territory Government from time to time relating to groundwater monitoring parameters, methodologies and frequencies for petroleum operations must be followed. This includes the <u>Preliminary Guideline: Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin.</u> Schedule <u>302a Well barrier integrity validation reporting</u> It is a requirement that, on any occasion a titleholder validates, installs, replaces or modifies a well barrier, or identifies degraded performance from a barrier, the titleholder must submit a "Well Barrier Integrity Validation" report... The Well Barrier Integrity Validation Report (WBIV) is to be uploaded on the Department's website. In accordance with Clause 103, and before submission to the Department, the titleholder will have the following results in the WBIV certified by an independent and reputable validator. • Results of any well integrity tests conducted before and after hydraulic fracturing; • Results of any integrity tests after a well barrier is installed, replaced or modified. Submission of the WBIV to the Department must be accompanied with a copy of the validator's certification.	

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			<u>301c Contents of well operations management plan</u> <i>301c(1) The matters that must be included in a well operations management plan are as follows:</i> <i>(h) A description of the monitoring, audit and well integrity assurance processes that will be implemented to ensure the performance outcomes and performance standards are being met throughout the life of the well...</i> NOTE: Results of the monitoring process and outcomes are to be uploaded on the Government's website along with any remedial action undertaken as per Clause 302a (see above).	
7.12	<i>That prior to the grant of any further exploration approvals, to reduce the risk of contamination of surface aquifers from on-site spills of wastewater:</i> <i>the Environment Management Plan for each well pad must include an enforceable wastewater management plan and spill management plan;</i> <i>enclosed tanks must be used to hold all wastewater; and</i> <i>the well pad site must be bunded to prevent any runoff of wastewater, and be treated (for example, with a geomembrane or clay liner) to prevent the infiltration of wastewater spills into underlying soil.</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019 and can be found here.	The Code of Practice calls for the inclusion of a wastewater management plan (WWMP) and spill management plan (SMP) within the Environmental Management Plan (EMP). Code of Practice <u>C.3 Wastewater management framework</u> <i>The components of the wastewater management framework ... include ...</i> <i>(d) Provide for the relevant activities and the environmental risks and environmental impacts they involve in a Wastewater Management Plan (WWMP) and a Spill Management Plan (SMP), as part of the EMP.</i> <i>(e) Monitor, manage and report in accordance with the WWMP and SMP.</i> <u>C.7.1 Wastewater management plan</u> <i>(a) An EMP for a petroleum activity must include a wastewater management plan (WWMP).</i> <i>(b) A WWMP must address all water and wastewater management activities which are proposed, as defined in section C.2.1 and as excluded by section C.2.2 of this Code.</i> <i>(c) The WWMP must include a description of the activities that will generate waste and wastewater, including any activities that may generate drilling materials (refer to definition in Section C.4.1), produced water, flowback fluid and any other waste which is proposed to be handled, stored or transported away from the area in which the activity is approved to be carried out...</i> <u>C.7.2 Spill management plan</u> <i>(a) An EMP for a petroleum activity must include a Spill Management Plan (SMP).</i> <i>(b) The content of an SMP as stipulated by this Code may be incorporated into an emergency contingency plan that is also required to be submitted as part of an EMP.</i> <i>(c) The SMP must assess and manage the risks posed by potential spills of waste, wastewater produced oil or condensate, fluids and any chemicals used or stored as part of petroleum activity.</i>	The Code and PER largely implement recommendation 7.12, with a few exceptions, as set out below. <u>Comments</u> - On our reading of the Code and the PER, the WWMP and SMP are enforceable, because: (a) Code C.3 provides that the WWMP and SMP are part of the EMP; and (b) the PER provides that any person who carries out a regulated activity in a manner that contravenes an EMP commits an offence (clause 31). - Bunds are not explicitly mandatory for the well site. - Enclosed tanks are generally required for holding wastewater. However, the Code's exceptions (C.4.2.2) present risks (e.g., liners may break and leak wastewater, and that the region experiences huge rain events that may, if required procedures are not followed, lead to the overflow of the holding ponds). Given mention in other places of challenges of access during the wet season, companies may have difficulties in managing the rapid movements of wastewater into tanks before all major rain events. We recommend that an expert review the Code, in particular B.4.16 and A.3.8, to assess whether the secondary containment requirements adequately meet the recommendation.

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			The Code also has references the use of enclosed tanks for produced water and flowback fluid, save for in particular circumstances: <u>C.4.2 Management of produced water and flowback fluid</u> <u>C.4.2.2 Mandatory requirements</u> <i>(a) All produced water and flowback fluid must be held in above-ground enclosed tanks at all times following release from the petroleum well other than in the following circumstances:</i> <i>i. it is being treated for reuse or disposal</i> <i>ii. it is being reused as explicitly authorised in an approved wastewater management plan (see Section C.7.1)</i> <i>iii. it is being disposed of as explicitly authorised in an approved waste management plan (see Section C.7.1)</i> <i>iv. it is being removed from site for lawful disposal elsewhere</i> <u>C.7.1.1 Wastewater treatment, reuse and disposal</u> <u>C.7.1.1(a) Enclosed tank requirement in major rain events</u> <i>ii. WWMP must include a plan to transfer produced water and flowback fluid into above-ground enclosed tanks (see section C.4.2.2) at least 8 hours in advance of any predicted significant rainfall event as specifically defined based on local weather conditions and other site specific risks;</i> The Code references well site fluids management: <u>B.4.16 Site material and fluids management</u> <u>B.4.16.2 Mandatory requirements</u> <i>(f) The well site must be designed and operated to minimise the potential for releases of contaminants to the environment and the impacts of such a release.</i> <i>(h) Use, storage and handling of materials on site must be conducted in accordance with section A.3.8 and Part C of this Code, and:</i> <i>i. secondary containment must be instituted on areas of the well site where any hazardous chemicals or those that may cause environmental harm are to be stored or handled during all well operations.</i> <i>ii. areas where any hazardous chemicals or those that may cause environmental harm are to be stored or handled must be lined to be sufficiently impervious and able to contain spilled material or waste until it can be removed or treated. This lining may be a geomembrane or a suitably constructed clay liner.</i>	
7.13	Upon a gas company undertaking any exploration activity or production activity, monitoring of the groundwater must be implemented around each well pad to detect any groundwater contamination, adopting the monitoring outlined in Recommendation 7.11 (see above). If	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the	As per recommendation 7.11.	The Code adequately addresses recommendation 7.13.

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	<i>contamination is detected, remediation must commence immediately.</i>	Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. The Code requires proponents to comply with the Preliminary Guideline for Groundwater monitoring bores for Exploration Petroleum Wells in the Beetaloo Sub-basin which was finalised and distributed on 29 November 2018. The guideline has been uploaded to the DEPWS website .		
7.15	<i>That gas companies must submit details of the locations of all faults that could compromise well integrity. The occurrence of any faults must be addressed in the well design plan submitted to the regulator for approval. The details of all faults and the well design plans must be publicly disclosed online as soon as they are available.</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. The Schedule is available here .	Schedule of onshore petroleum exploration and production requirements <u>301c. Contents of well operations management plan</u> (1) <i>The matters that must be included in a well operations management plan are as follow</i> (a) <i>A description of the well, and the well activities relating to the well, to which the plan applies;</i> (b) <i>A description of the risk management process used to identify and assess risks to the integrity of the well;</i> (c) <i>A description and explanation of the design, construction, operation and management of the well, and conduct of well activities, showing how risks to the integrity of the well will be reduced to as low as reasonably practicable;</i> Note: A separate well plan summary, detailing the location of all known faults and geo-hazards, must be submitted for uploading on the Department's website.	Schedule, s. 301c adequately addresses recommendation 7.15, however, we have concerns about its implementation. <u>Comments</u> - It not clear where the "separate well plan summary" is on the Department's website, and we have not yet found such a plan with this fault information for any of the approved exploration wells. - In the Imperial 2021-2025 program partially approved on 3 September 2021, Imperial stated that they planned to use the seismic testing under assessment to characterize the faults that would then be built into a future well management plan. Thus, the Minister was being asked to approve a plan that did not contain all relevant information at the time.
7.17	<i>That prior to the grant of any further exploration approvals, the discharge of any onshore shale gas hydraulic fracturing wastewater (treated or untreated) to either drainage lines, waterways, temporary stream systems or waterholes be prohibited.</i>	Amendments to the <i>Water Act 1992</i> commenced on 19 June 2019 and stipulate that release of hydraulic fracturing waste to surface waters is an offence.	Water Amendment Bill 2019 inserted a prohibition on the pollution of water by "hydraulic fracturing waste" into the <i>Water Act</i> (section 17A). However, Section 17B states: (1) Section 17A does not apply if: (a) hydraulic fracturing waste is produced water or flowback fluid; and (b) the hydraulic fracturing waste comes into contact with water that is contained in the geological formation being targeted by the process of hydraulic fracturing. (2) In this section: flowback fluid means fluid that is a mixture of hydraulic fracturing fluid and formation fluid that is allowed to flow from the well following hydraulic fracturing. produced water means naturally occurring water that is extracted from a geological formation following hydraulic fracturing.	The <i>Water Act 1992</i> amendments largely address recommendation 7.17. <u>Comments</u> There is no specific mention in the <i>Water Act</i> about whether treated wastewater is also considered wastewater that cannot come into contact with other water bodies.
7.18	<i>That to minimise the adverse impacts of any onshore shale gas infrastructure (roads and</i>	The Northern Territory Government has worked with	Code of Practice	The Code does not adequately address recommendation 7.18.

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	<i>pipelines) on the flow and quality of surface waters, the Government must ensure that:</i> <i>landscape or regional impacts are considered in the design and planning phase of development to avoid unforeseen consequences arising from the incremental (piecemeal) rollout of linear infrastructure; and</i> <i>roads and pipeline corridors must be constructed to:</i> <i>minimise the interference with wet season surface water flow paths;</i> <i>minimise erosion of exposed (road) surfaces and drains;</i> <i>ensure fauna passage at all stream crossings; and</i> <i>comply with relevant guidelines such as the International Erosion Control Association Best Practice for Erosion and Sediment Control and the Australian Pipeline Industry Association Code of Environmental Practice 2009.</i>	independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	<u>A.3.4 Erosion and sediment control and hydrology</u> <i>(d) Road and pipeline corridor designs must:</i> <i>i. minimise erosion of exposed road surfaces and drains;</i> <i>ii. ensure that roads and pipeline surface water flow paths minimise erosion of all exposed surfaces and drains;</i> <i>iii. comply with relevant guidelines such as the International Erosion Control Association Best Practice for Erosion and Sediment Control (2008), IECA Appendix P: Land Based Pipeline Construction December 2015 (Addendum to IECA 2008) and the Australian Pipeline Industry Association Code of Environmental Practice for Onshore Pipelines 2017.</i> <i>(e) The requirements of the Land Clearing Guidelines as published on the DENR website and amended from time to time must be complied with in relation to protection of natural waterways as a result of land disturbance and ensure the following:</i> <i>i. appropriate buffers are implemented around natural waterways;</i> <i>ii. disturbance in the wet season is minimised;</i> <i>iii. the number of crossing points is minimized;</i> <i>iv. crossings are constructed as close as practicable to right angles to the waterway...</i> <u>A.3.5 Biodiversity protection</u> <i>... (b) All infrastructure stream crossings must provide for appropriate fauna passage;</i>	<u>Comments</u> The first part of the recommendation does not appear to be met, that is, there does not appear to be a basin-wide planning study that assesses and plans for landscape scale development to avoid the larger cumulative impacts of piecemeal infrastructure additions.
8.2	<i>That a baseline weed assessment be conducted over all areas that will be accessed by a gas company on an exploration permit prior to any exploration activities being carried out on that area and that ongoing weed monitoring be undertaken to inform any weed management measures necessary to ensure no incursions or spread of weeds.</i>	The Department of Environment, Parks and Water Security will continue working with holders of existing Exploration Permits in the Beetaloo Sub-basin to accurately identify locations of exploration and undertake weed surveys in those areas. A requirement for ongoing weed monitoring and management to prevent new incursions or spread of weeds has been incorporated into the Code of Practice and includes mandatory weed management requirements to be included in Environment Management Plans enforced under the Petroleum (Environment) Regulations 2016. Specific guidance regarding baseline weed assessments provided within the Weed Management Plan Guideline which is available on DEPWS's	Code of Practice <u>A.3.6 Weed management</u> A project specific weed management plan must be developed as part of the EMP which meets the requirements of the <i>NT Weed Management Planning Guide: Onshore Petroleum Projects</i> (available here). The plan must provide for: <i>(a) baseline weed assessments prior to regulated activities being undertaken</i> <i>(b) ongoing weed monitoring...</i>	The Code adequately addresses recommendation 8.2.

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		website along with the Code of Practice. Baseline assessments for new areas will be required prior to activities commencing in these areas.		
8.3	<i>That, at all times, gas companies must have a dedicated weeds officer for each gas field who is responsible for weed management and whose role includes:</i> • <i>training all field workers in the identification of weeds, especially gamba and grader grass, and to establish an effective reporting system for any suspected weed incursions;</i> • <i>designing and implementing effective weed surveillance; and</i> • <i>ensuring prompt and effective management of any weed incursions in consultation with affected landholders. That the gas industry funds a dedicated officer responsible for weed management associated with any onshore shale gas development. This officer is to be located in the Government's Weed Management Branch in a regional centre. The officer will be responsible for:</i> • <i>coordinating regional weed baseline assessments and subsequent weed surveillance; and</i> • <i>overseeing strategic and effective management of any weed incursions by gas companies.</i>	The obligation on gas companies to have a dedicated weeds officer for each gas field have been built into weed management plan guidelines which are required to be complied with by the Code of Practice. The Guideline has been released along with the Code of Practice. A dedicated weeds officer has been employed by the Department of Environment, Parks and Water Security working closely with industry to ensure weeds related risks are appropriately managed.	Code of Practice <u>A.3.6 Weed management</u> A project specific weed management plan must be developed as part of the EMP which meets the requirements of the <i>NT Weed Management Planning Guide: Onshore Petroleum Projects</i> (https://denr.nt.gov.au/_data/assets/pdf_file/0006/708558/weed-management-planning-guide-onshore-petroleum-projects.pdf). The plan must provide for... (c) ... a dedicated weed officer...	The Code adequately addresses recommendation 8.3. <u>Comments</u> • The Code could contain more specificity about the roles of the weed officer, as defined in the recommendation.
8.4	<i>That gas companies must be required to have an approved weed management plan for any area the subject of an exploration permit prior to any part of that area being accessed for the carrying out of any exploration activities. The WMP must be consistent with all relevant statutory obligations and relevant threat abatement plans established under the EPBC Act.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019 and can be found here. Weed Management Plans are now required by the Code of Practice to be included as part of an Environment Management	Code of Practice <u>A.3.6 Weed management</u> A project specific weed management plan must be developed as part of the EMP which meets the requirements of the <i>NT Weed Management Planning Guide: Onshore Petroleum Projects</i> (https://denr.nt.gov.au/_data/assets/pdf_file/0006/708558/weed-management-planning-guide-onshore-petroleum-projects.pdf).	The Code adequately addresses recommendation 8.4.

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		Plan, under the Petroleum (Environment) Regulations 2016. A Guideline has been developed outlining specific requirements which can be found on the DEPWS website.		
8.5	<i>That gas companies be required to comply with any statutory regional fire management plan within their area of exploration and/or production activity. The fire management plan must:</i> <i>address the impacts that any onshore shale gas industry will have on fire regimes in the NT and identify how those impacts will be managed;</i> <i>establish robust monitoring programs for assessing seasonal conditions and fuel loads;</i> <i>require that annual fire mapping be undertaken to monitor any increase in fire frequency due to any onshore shale gas development;</i> <i>require that all existing baseline data for at least the decade prior to commencement of any exploration activity be collated and published;</i> <i>implement management actions, such as prescribed fuel reduction burns at strategic locations, if fire frequency is shown to have increased due to onshore shale gas activity; and</i> <i>facilitate support for local volunteer fire brigades to increase regional capacity for fire management</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.7 Fire management</u> (a) A fire management plan at a project level must be developed as part of the EMP which demonstrates the following: - analysis of baseline fire information (at least 10 years); - analysis of impacts of the proposed activities on the existing fire management regime (including measures and strategies of government and other stakeholders); - coordination with the landholder and other land users and consistency with the landholder's fire management obligations and strategies (including regional and property fire management plans under the <i>Bushfires Management Act 2016</i>) - implementation of the interest holder's appropriate fire mitigation measures, such as: - robust monitoring of seasonal conditions and fuel loads; - maintenance of fire access trails; - maintenance of fire breaks around infrastructure; - controlled burns; - communication system for monitoring bushfire alerts in the area; and - contributing to increased regional fire fighting capacity (such as local volunteer fire brigades); - appropriate fire control measures for relevant activities; - annual fire mapping to monitor changes to fire frequency in the relevant area. (b) infrastructure must be designed, constructed, operated and maintained to mitigate risks of ignition.	The Code adequately addresses recommendation 8.3.
8.7	<i>That the area of vegetation cleared for infrastructure development (well pads, roads and pipeline corridors) be minimised through the efficient design of flowlines and access roads, and where possible, the colocation of shared infrastructure by gas companies.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The	Code of Practice <u>A.3.1 Site selection and planning</u> (b) The following must be demonstrated in regard to the selection of proposed locations: landscape and regional scale impacts have been considered and accounted for at the design phase of development and are informed by baseline ecological studies of areas to be disturbed;	The Code adequately addresses recommendation 8.7.

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		finalised Code was published on 12 June 2019.	ii. critical habitats and important habitats are identified and avoided during corridor selection and construction and appropriate controls mechanisms implemented during construction to avoid any impact on them; iii. the area of vegetation to be cleared for infrastructure development (including well pads, roads and pipeline corridors) has been minimised through efficient design and where possible, use of existing infrastructure and the co-location of shared infrastructure; and iv. potential environmental nuisance has been avoided and minimised.	
8.8	<i>That well pads and pipeline corridors be progressively rehabilitated, with native vegetation re-established such that the corridors become ecologically integrated into the surrounding landscape.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.9 Rehabilitation</u> (a) A Rehabilitation Plan must be included as part of an EMP. It must be developed by a suitably qualified person and must include specific environmental outcomes and performance standards (eg, monitoring and reporting requirements). (b) The Rehabilitation Plan shall be appropriate to the scale and nature of the activity and include: i. strategies for the determination of final land use(s) and rehabilitation goals and details of how rehabilitation objectives will be achieved; ii. a monitoring and maintenance program for reinstated and rehabilitated areas. (c) Progressive rehabilitation of significantly disturbed land which is not required for the ongoing conduct of the petroleum activity(ies) or future activities, must commence as soon as practicable, but not longer than 12 months following the cessation of activities on the land. (d) All significantly disturbed land must be reinstated to its pre-disturbed condition. For areas that previously contained native vegetation, native vegetation must be re-established such that the corridors become ecologically integrated into the surrounding landscape. (e) Regular maintenance and at least yearly monitoring of rehabilitated areas must take place to measure compliance with the Rehabilitation Plan. (f) If contamination is detected, remediation must commence immediately in accordance with the spill management plan and/or emergency contingency plan.	The Code adequately addresses recommendation 8.8.
8.10	<i>That gas companies be required to identify critical habitats during corridor construction and select an appropriate mechanism to avoid any impact on them.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.1 Site selection and planning</u> (b) The following must be demonstrated in regard to the selection of proposed locations: i. landscape and regional scale impacts have been considered and accounted for at the design phase of development and are informed by baseline ecological studies of areas to be disturbed; ii. critical habitats and important habitats are identified and avoided during corridor selection and construction and appropriate controls mechanisms implemented during construction to avoid any impact on them; iii. the area of vegetation to be cleared for infrastructure development (including well pads, roads and pipeline corridors) has been minimised through efficient design and	The Code adequately addresses recommendation 8.10.

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			where possible, use of existing infrastructure and the co-location of shared infrastructure; and iv. potential environmental nuisance has been avoided and minimised.	
8.11	<i>That clearing for corridors, well pads and other operational areas be kept to a minimum, that pipelines and other linear infrastructure be buried (except for necessary inspection points), and that all disturbed ground be revegetated.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.1 Site selection and planning</u> <i>(e) Pipelines and ancillary services must be buried except for the following:</i> <i>i. temporary infrastructure;</i> <i>ii. infrastructure located on well pads;</i> <i>iii. where it is necessary for inspection; or</i> <i>iv. where burial would not reduce environmental risks or environmental impacts from the infrastructure to levels which are ALARP and acceptable, as demonstrated in the EMP.</i> <u>A.3.5 Biodiversity protection</u> Surface activities must be undertaken in a manner that avoids and minimises environmental risks and environmental impacts to flora and fauna, critical habitat and important habitat to ALARP and acceptable in accordance the Land Clearing Guidelines as published on the DENR website and amended from time to time and the following: <i>(a) Land clearing for corridors, well pads and other operational areas must be kept to a minimum;</i> <i>(b) All infrastructure stream crossings must provide for appropriate fauna passage;</i> <i>(c) Where environmental impacts and environmental risks to flora and fauna are unable to be avoided or adequately mitigated by other means, the residual impacts must be offset in accordance with the Northern Territory and/ or Australian Government policy relating to environmental offsets in effect from time to time (if any).</i> <i>The Implementation Strategy required under Schedule 1 cl. 11 of the PER must provide for records of the nature, location and extent of disturbance of flora and fauna including geospatial information depicting areas cleared to be provided to the Minister.</i> <u>A.3.9 Rehabilitation</u> <i>(a) A Rehabilitation Plan must be included as part of an EMP. It must be developed by a suitably qualified person and must include specific environmental outcomes and performance standards (eg, monitoring and reporting requirements).</i> <i>(b) The Rehabilitation Plan shall be appropriate to the scale and nature of the activity and include:</i> <i>i. strategies for the determination of final land use(s) and rehabilitation goals and details of how rehabilitation objectives will be achieved;</i> <i>ii. a monitoring and maintenance program for reinstated and rehabilitated areas.</i> <i>(c) Progressive rehabilitation of significantly disturbed land which is not required for the ongoing conduct of the petroleum activity(ies) or future activities, must commence as soon as practicable, but not longer than 12 months following the cessation of activities on the land.</i>	The Code largely addresses recommendation 8.11. <u>Comments</u> The requirement that “all disturbed ground be revegetated” may not be met, as Section A.3.9 of the Code describes that “all <i>significantly</i> disturbed land” must be reinstated to its pre-disturbed conditions.

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			<i>(d) All significantly disturbed land must be reinstated to its pre-disturbed condition. For areas that previously contained native vegetation, native vegetation must be re-established such that the corridors become ecologically integrated into the surrounding landscape.</i> <i>(e) Regular maintenance and at least yearly monitoring of rehabilitated areas must take place to measure compliance with the Rehabilitation Plan.</i> <i>(f) If contamination is detected, remediation must commence immediately in accordance with the spill management plan and/or emergency contingency plan.</i>	
8.12	<i>That directional drilling under stream crossings be used in preference to trenching unless geomorphic and hydrological investigations confirm that trenching will have no adverse impact on water flow patterns and waterhole water retention timing.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.4 Erosion and sediment control and hydrology</u> <i>(f) Directional drilling under waterway crossings must be used in preference to trenching for all buried infrastructure unless geomorphic and hydrological investigations confirm that trenching will have no adverse impact on water flow patterns and waterhole water retention timing.</i>	The Code adequately addresses recommendation 8.12
8.13	<i>That roads and pipeline surface water flow paths minimise erosion of all exposed surfaces and drains.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.4 Erosion and sediment control and hydrology</u> <i>(d) Road and pipeline corridor designs must:</i> ii. <i>ensure that roads and pipeline surface water flow paths minimise erosion of all exposed surfaces and drains.</i>	The Code adequately addresses recommendation 8.13.
8.14	<i>That all corridors be constructed to minimise the interference with wet season stream crossings and comply with relevant guidelines, such as the International Erosion Control Association Best Practice for Erosion and Sediment Control and the Australian Pipeline Industry Association Code of Environmental Practice 2009.</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>A.3.1 Site selection and planning</u> <i>(d) Infrastructure site/route selection must minimise interference with wet season water flow paths and exposure of infrastructure to flooding.</i> <u>A.3.4 Erosion and sediment control and hydrology</u> <i>(d) Road and pipeline corridor designs must:</i> iii. <i>comply with relevant guidelines such as the International Erosion Control Association Best Practice for Erosion and Sediment Control (2008), IECA Appendix P: Land Based Pipeline Construction December 2015 (Addendum to IECA 2008) and the Australian Pipeline Industry Association Code of Environmental Practice for Onshore Pipelines 2017.</i>	The Code adequately addresses recommendation 8.14.
8.15	<i>That to minimise the impact of any onshore shale gas industry on landscape amenity, gas companies must demonstrate that they have minimised the surface footprint of development to ALARP, including that:</i>	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's	Code of Practice <u>A.3.2 Well pad site selection requirements</u> <u>A.3.2.2 Mandatory requirement</u>	The Code does not adequately address recommendation 8.15. <u>Comments</u>

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	- well pads are spaced a minimum of 2 km apart; and - the long-term infrastructure within any development area (exploration or production) has little to no visibility from any major public roads. <i>*ALARP means "a level as low as reasonably practicable."</i>	recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	(a) Where a petroleum development is targeting a continuous resource well pads must be spaced a minimum of 2km apart, measured from the centre of the well pads; or the interest holder must demonstrate: - a justification that demonstrates that a well pad spacing of less than 2 km is required to reduce environmental risks and impacts on cultural heritage and other land users to ALARP and acceptable in consideration of site specific constraints (including geohazards, environmental values, cultural heritage, existing land use); - reasons supporting the alternative locations chosen; and - that the proposed locations minimise landscape amenity impacts. (b) Where a petroleum development is targeting a compartmentalised resource, well pad spacing and location must be placed to minimise landscape amenity impacts. (c) Well pads and well infrastructure installed on the well pad post drilling must have little or no visibility from any major public road that exists at the time the well pad is constructed. Continuous resource means "[a] resource hosted in source rock with significant lateral extent, such as a shale." Compartmentalised resource is "[a] resource restricted in lateral extent where petroleum has migrated from source rocks to a definable reservoir."	- Although Subsection (a) of A.3.2.2 requires well pads to be spaced a minimum of 2 km in accordance with Recommendation 8.15, it allows an interest holder to deviate from this requirement to reduce impacts on cultural heritage, but also on a more general category of "other land users." It is possible that this exemption could be improperly granted. - An expert might usefully assess the distinction between continuous resources and compartmentalised resources because well pad spacing requirements are different depending on the resource type. - Subsection (c) seems to adequately implement the visibility requirement.
9.1	That to reduce the risk of upstream methane emissions from any onshore shale gas wells, the Government implement the US EPA New Source Performance Standards of 2012 and 2016.	The Northern Territory Government worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>D.5.1 Methane Emissions Management Plan</u> <u>D.5.1.3 Preferred requirements</u> (a) The MEMP should be consistent with the emissions management plan described in US NSPS 2016 and relevant parts of the following sections: §60.5397a; §60.5410a; §60.5415a; and §60.5420a. <u>D.5.2.3 Preferred requirements</u> (a) The inspection frequency should be consistent with the monitoring requirements in US NSPS 2016 and relevant parts of the following sections: §60.5397a; §60.5410a; and §60.5415a. <u>D.5.3.3 Preferred requirements</u> (a) The minimum requirements for gas detection instruments, operation and calibration procedures should be consistent with the requirements in US NSPS 2016 and relevant parts of the following sections: §60.5397a. <u>3.2 Nature of requirements</u> In the Code, "preferred requirements" is defined as follows: (c) preferred requirements: These are practices, methods and techniques which should generally be followed by interest holders unless: - there is a convincing justification why they cannot be followed; and	The Code does not adequately address recommendation 9.1. <u>Comments</u> In contrast to the more absolute language of the recommendation, compliance with US EPA New Source Performance Standards 2016 under the Code of Practice is only "preferred," not mandatory. (See left for the definition of "preferred requirements" in the Code.)

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			ii. any alternative practice, method or technique that will be followed: a) if a corresponding principle has been identified, will achieve the principle; or b) if no corresponding principle has been identified, will result in no greater environmental risks or environmental impacts than if good oilfield practice is followed.	
9.2	<i>That prior to the grant of any further exploration approvals, a code of practice be developed and implemented for the ongoing monitoring, detection and reporting of methane emissions from any onshore shale gas fields and wells.</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice Part D — Methane emissions monitoring, leak management, detection and reporting (sets out minimum standards).	The Code adequately addresses recommendation 9.2. <u>Comments</u> - Monitoring and reporting efforts in the Code would be significantly strengthened (and the intention of the Inquiry would be better implemented) if all “preferred” requirements in Part D of the Code were made “mandatory” requirements. - For example, in the body of the Inquiry report, the panel recommended that “a formal site-wide leak inspection and repair program should be conducted that is consistent with the US EPA NSPS standards” (see page 226 of the Inquiry’s report). However, Code D.5.3.3(a) lists as a “Preferred” requirement that “The minimum requirements for gas detection instruments, operation and calibration procedures should be consistent with the requirements in US NSPS 2016...”. Likewise, Code D.5.2.3 – again a “Preferred” requirement states that the frequency of methane emissions inspection should be consistent with US NSPS 2016.
9.3	<i>That baseline monitoring of methane concentrations be undertaken for at least six months prior to the grant of any further exploration approvals. In areas where hydraulic fracturing has already occurred, the baseline monitoring should be undertaken at least a year prior to the grant of any production approvals.</i>	Measurement of regional baseline methane concentrations in the Beetaloo Sub-basin was commenced by CSIRO in July 2018, and concluded in March 2019. CSIRO has released three publicly available reports of the initial surveys for naturally occurring methane monitoring it has conducted. The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. It contains requirements	Code of Practice <u>D.4.1 Baseline Methane Assessment</u> <u>D.4.1.2 Mandatory Requirements</u> (a) Methane assessment (i.e. mobile surveys of ambient methane concentration; identification and location of main methane sources; quantification of emission rates if possible) must be undertaken for the region or catchment for at least six months prior to the granting of exploration approvals involving hydraulic fracturing. (b) In areas where hydraulic fracturing has already occurred, methane assessment (i.e. mobile surveys of ambient methane concentration; identification and location of main methane sources; quantification of emission rates if possible) for the region must be undertaken for at least a year prior to the granting of production approvals. ... (e) Baseline assessment must be undertaken by persons or organisations approved by the Northern Territory Government. Note also that the NT Government’s implementation website says: “Measurement of regional baseline methane concentrations in the Beetaloo Sub-basin was commenced by CSIRO in July 2018, and concluded in March 2019. CSIRO has released three publicly available reports of the initial surveys for naturally occurring methane monitoring it has conducted.”	The Code adequately addresses recommendation 9.3. <u>Comments</u> 12 months of baseline monitoring data from an area that already has fracking ongoing in exploration wells is a poor substitute for a before-fracking study. - Note also that there does not appear to be a requirement for the baseline monitoring to be publicly released (see also comments on recommendation 9.5 below).

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		for baseline and ongoing methane monitoring.		
9.4	<i>That baseline and ongoing monitoring be the responsibility of the regulator and funded by the gas industry.</i>	Exploration permit holders in the Beetaloo Sub-basin will pay the NT Government for the baseline methane monitoring work CSIRO has completed. Industry will pay for the baseline through a cost recovery exercise. The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. It contains requirements for baseline and ongoing methane monitoring. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>D.4 Regional methane monitoring</u> This section outlines requirements for the establishment of a baseline and ongoing monitoring of methane emissions in a region. Three types of regional monitoring programs are required: • Baseline Methane Assessments, described in D.4.1, are conducted to characterise the ambient methane levels, which may vary with seasons, and to identify the major sources of methane prior to a prospective activity. This assessment may be done in conjunction with baseline methane surveys conducted for a Strategic Regional Environmental Baseline Assessment (SREBA). • Regional Methane Assessment Programmes, described in section D.4.2, are conducted to characterise the existing natural and anthropogenic sources of methane emissions across each permit or licence area and adjacent areas before the commencement of exploration activity and immediately after the commencement of full-scale production. • Routine Periodic Atmospheric Monitoring Programmes, described in D.4.3, are conducted to provide for periodic monitoring so that any changes in methane emissions can be detected during the life of a project that has entered the production phase. These assessments use the Regional Methane Assessment Programmes as their baseline. These assessments are conducted by or on behalf of the Northern Territory Government, funded by industry, and must be designed and implemented by a suitably qualified and experienced professional who is approved by the Minister.	The Code adequately addresses recommendation 9.4.
9.5	<i>That all monitoring results must be made publicly available online on a continuous basis in real time.</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. The government has commenced work on an online portal to enable timely public reporting.	Code of Practice <u>D.1 Overview</u> <i>The purpose of this Code is to ensure that ... (d) greenhouse gas emissions from industry are minimised, and adequately quantified and reported to the Northern Territory Government for subsequent open publication.</i> <u>D.4.2 Regional Methane Assessment Programme (RMAP)</u> <u>D.4.2.3 Preferred requirements</u> <i>(b) If fixed monitoring stations are used as part of ongoing monitoring programmes, data should be made continuously available to the public.</i> <u>D.4.3 Routine periodic atmospheric monitoring programme</u> <u>D.4.3.2 Mandatory requirements</u> <i>(e) The results from the stations must be made available to the public through the Northern Territory Government provided portal in the requested format.</i>	The Code does not adequately address recommendation 9.5. <u>Comments</u> • In relation to routine periodic monitoring, D4.3.2(e) of the Code requires results to be made publicly available, although it does not explicitly require the results to be made available online “on a continuous basis in real time” as required by the recommendation. • In relation to the regional methane assessment programme, publication of data from fixed monitoring stations is only a “preferred” requirement (see D.4.2.3). This seems insufficient to address the recommendation that all monitoring results be made publicly available. • Note also that, as mentioned above in relation to recommendation 9.3, there does not appear to be a requirement that baseline monitoring be made publicly available (see D.4.1).

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		It contains requirements for baseline and ongoing methane monitoring.	The NT Government's implementation website says: " <i>The government has commenced work on an online portal to enable timely public reporting.</i> "	The government claims it has started work on an online portal to enable public reporting, but drilling should not be allowed until this is ready and populated with data from the baseline assessment required by recommendation 9.3, as well as the results of ongoing monitoring by companies already undertaking exploration.
9.6	<i>That once methane emission concentration limits are exceeded, as soon as reasonably practicable the regulator must be notified, an investigation must be undertaken by the gas company to identify the source or sources of the emissions, and make-good provisions be carried out by the gas industry.</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. The Code of Practice identifies the process gas companies must undertake if emission concentration limits are exceeded. The process includes giving notice to the regulator and undertaking an investigation. Cumulative impacts are also considered through the delivery of recommendations 14.19 and 14.21.	Code of Practice <u>D.5 Emissions Detection and Management</u> <u>D.5.6 Leak Remediation and Notification</u> (establishes requirements for managing, documenting, and notifying significant leaks). The <i>Petroleum (Environment) Regulations</i> require the Minister to publish notices/reports of reportable and recordable incidents – which we assume would include methane leaks.	The Code of Practice does not adequately meet recommendation 9.6. <u>Comments</u> - D.5.6.1 allows up to 30 days after detection for minor leaks to be repaired, which seems overly lenient. - The Code does not require the Company to notify the Minister of the leak unless it cannot repair the leak within 30 days. - The Code does not appear to require records of leaks to be made publicly available on an ongoing basis. - It is not clear if or how implementation of “make-good provisions” are incorporated into the Code.
9.7	<i>That the action framework outlined in Table 9.10 be implemented to lower fugitive methane emissions.</i> <i>Table 9.10 mitigation actions:</i> A. <i>Ensure that world leading practice regulations are implemented that are known to achieve lower methane emissions.</i> B. <i>Prescription-based regulation only, while achieving desirable outcomes, may restrict new technologies. There is a need to allow appropriate flexibility in the formulation of performance-based regulations.</i> C. <i>Ensure that there are appropriate incentives for compliance and penalties for non-compliance.</i> D. <i>Ensure that there are appropriate requirements for monitoring regulatory</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019.	Code of Practice <u>Part D — Methane emissions monitoring, leak management, detection and reporting</u>	The vagueness and breadth of recommendation 9.7 makes it difficult to assess to what extent it has been implemented. We conclude that it has been partially addressed via the Code. <u>Comments</u> Assessment of corresponding provisions in the Code: - The Code incorporates US NSPS 2016 and US EPA Method 21 (determination of VOC leaks from process equipment). - The leak detection instruments used should be “selected to ensure they are fit for purpose and maximise the probability of detecting methane leaks.” USEPA Method 21 and optical gas imaging are identified as leak testing methods, but the operator can propose “other superior methods” if available. (D.5.3.2). - There do not seem to be any penalties for violating the Code in the Code itself, but “an

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	<i>compliance and that there are adequate resources.</i> <i>E. Ensure that there are appropriate requirements for monitoring emissions.</i> <i>F. Ensure that there are adequate resources to undertake monitoring and that this monitoring is undertaken by an independent organisation with the necessary expertise.</i> <i>G. These failure events can be mitigated by ensuring compliance with appropriate regulations, including undertaking rigorous risk assessment and ensuring that a formal leak detection and repair program is undertaken regularly.</i>			interest holder must demonstrate in an environment management plan (EMP) under the PER how the requirements of this Code will be met (see Schedule 1, cl 10 of the PER),” and the PER contains penalties. Code at 3.1(c). Regulation 31 of the PER notes that “a person who carries out a regulated activity in a manner that contravenes the current plan for the activity commits an offence” for which they may be liable for up to 200 penalty units. d) Section D.6 contains reporting requirements with regards to methane emissions. For example, the operator has to submit an annual report to the NT government on flowback activities, operation of reciprocating compressors, and leak detection survey results. It is unclear whether these annual reports will be made public. e) Section D.4.3 discusses the routine periodic atmospheric monitoring programme. Section D.5.2 includes requirements related to inspection frequency and procedure. f) “Leak detection and monitoring methods are selected to ensure that they are fit for purpose and are conducted by a suitably qualified person to maximise the probability of detecting methane leaks.” D.5.4.1. The definition of a “suitably qualified person” does not include independence as a requirement. The Code notes that it does not “cover independent validation and verification requirements for activities during the life-cycle of a well.” B.2. g) Interest holders have to conduct a risk assessment to identify risks posed by leaks (D.5.1.2(a)). Table 10 indicates the emission inspection minimum frequency for different facilities and systems. For example, all gas containing equipment following major maintenance (e.g. repacking, replacement of seals) has to be inspected within 48 hours of recommissioning. Low pressure pipeline and fittings, steel or high pressure pipelines, and processing plants must be inspected at least annually.
10.2	<i>That in consultation with the gas industry, landholders, Land Councils, local government and local communities, the Government mandates an appropriate setback distance from all gas well heads, pipelines and gas processing facilities to a habitable dwelling (including all buildings or</i>	The Northern Territory Government has worked with independent scientific experts to develop a Code of Practice relative to the Inquiry's recommendation. The Code is	Code of Practice <u>A.3 Surface activities mandatory requirements</u> <u>A.3.1 (f) Site selection and planning</u> <i>All petroleum infrastructure including, petroleum wells, pipelines and gas processing facilities must have a setback distance of at least 2km from an existing or proposed</i>	The Code adequately addresses recommendation 10.2. <u>Comments</u> The recommendation would be more complete if the Code explicitly mentioned this same setback for other facilities associated with fracking that have

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	<i>premises where people reside or work, schools and associated playgrounds, permanent sporting facilities and hospitals or other community medical facilities) in order to minimise risks identified in HHRA reports, including potential pathways for waterborne and airborne contaminants. Such setback distances should not be less than 2 km and should apply to all exploration and production activities.</i>	legally enforceable through the Petroleum (Environment) Regulations 2016. The finalised Code was published on 12 June 2019. Appropriate setback distances are enforceable via legislation. Setback distances are 2 km from a well head, pipeline or gas processing facility.	<i>habitable dwelling including all buildings or premises where people reside or work, schools and associated playgrounds, permanent sporting facilities and hospitals or other community medical facilities.</i>	detrimental health effects, including wastewater treatment and storage, and chemical storage areas. These facilities may be included implicitly in the "all petroleum infrastructure," though it will be important to assess the implementation of this regulation to ensure it does.
11.1	<i>That gas companies be required to obtain an Authority Certificate prior to the grant of any exploration and production approvals.</i>	The Petroleum (Environmental) Regulations 2016 were amended so that from 11 June 2019 the Minister for Environment and Natural Resources cannot approve an Environment Management Plan unless an Authority Certificate under the <i>Northern Territory Aboriginal Sacred Sites Act 1989</i> is included.	<i>Petroleum (Environment) Regulations</i> have been amended as follows: <u>Division 2 Minister's decision about approval of environment management plan</u> <u>9 Approval criteria for plan</u> (1) <i>The approval criteria for an environment management plan are that the plan must:</i> (d) <i>include an Authority Certificate in relation to the land on which the activity will be carried out.</i>	The PER adequately addresses recommendation 11.1. <u>Comments</u> Stop the clock provisions should be mandated.
11.2	<i>That the Aboriginal Areas Protection Authority:</i> <i>be provided with a copy of any application to conduct hydraulic fracturing for onshore shale gas under petroleum environment legislation at an early stage of the assessment and approval process;</i> <i>be given an adequate opportunity to explain the application to custodians; and</i> <i>be given an adequate opportunity to comment on the application and have those comments considered by the decision-maker.</i>	Recommendation 11.2 of the Inquiry requires the Authority to gain an understanding of and comment on the proposed Hydraulic Fracturing activities, consult custodians on the proposals and provide comments to the relevant decision maker. This will take place in connection with Environment Management Plans (EMP) and Environmental Impact Statements (EIS). Aboriginal Areas Protection Authority and the Department of Environment, Parks and Water Security continue to monitor and work on processes with regular reviews to ensure appropriate outcomes are achieved."		The only way to assess completion of this recommendation is through a case-by-case approach.
11.3	<i>That the Sacred Sites Act be amended to protect all sub-surface features of a sacred site.</i>	The Aboriginal Areas Protection Authority received legal advice on the extent of protection to sub-surface sites provided by the	The government has opted not to implement this recommendation.	This recommendation has intentionally not been implemented. <u>Comments</u>

Rec #	Final Report - detailed recommendation	How does the NT government justify the 100% implementation status?	How has the NT government implemented this recommendation?	Analysis of implementation of the Fracking Inquiry's recommendation
		Northern Territory <i>Aboriginal Sacred Sites Act 1989</i> . This advice was considered by the Aboriginal Areas Protection Authority and the Authority consulted with the relevant Land Councils. It was determined that no amendments are required to the <i>Aboriginal Sacred Sites Act 1989</i> to protect sub-surface features.		The NT government did not identify an alternative way of protecting sub-surface features of sacred sites. As such, it does not seem like the Inquiry's concerns that led up to Recommendation 11.3 have been addressed. The Fracking Inquiry Final Report at 285-86 states: " <i>The Panel's strong view is that it should be put beyond doubt that features of a sacred site, and sacred sites themselves, can be underground, and must be protected. ... Having regard to the support for this recommendation received by the Panel, including in the course of community consultations, the Panel has retained Recommendation 11.3, but notes that the usual practice of stakeholder engagement should take place before initiating changes to legislation.</i> "
11.4	<i>That gas companies be required to provide a statement to native title holders containing information of the kind required under section 41(6) of the Land Rights Act for the purposes of negotiating an onshore shale gas exploration agreement under the future act provisions of the Native Title Act.</i>	The Northern Territory Government has updated its Petroleum Exploration Permit Application and Conditions guideline to reflect the requirement for petroleum companies seeking to negotiate an exploration agreement on Native Title Land, to provide a statement to native title claimants in line with the provisions of section 41(6) of the <i>Aboriginal Land Rights Act 1976</i> regarding potential future exploration activity. This will ensure native title claimants have a clear understanding of the nature of the potential future exploration activity. The <i>Aboriginal Land Rights Act 1976</i> s41(6) details in a very prescriptive nature the information that is required to be provided by petroleum companies (regarding potential exploration activities) to both inform and commence negotiating an exploration permit with Traditional Owners on Aboriginal Land. The <i>Native Title Act 1998</i> is Commonwealth legislation and cannot be amended by the Northern Territory Government.	Petroleum Act 1984 <u>s. 57F</u> Notification of native title holders etc. (1) <i>Within 14 days after the notification event or within the further time allowed in writing by the Minister:</i> (a) <i>if the prescribed petroleum act is an act to which section 24MD(6B) of the Native Title Act applies – the Minister must serve written notice of the making of the application on the persons referred to in section 57E(a), (b) and (c) and on the Native Title Registrar; or</i> (b) <i>if the prescribed petroleum act is an act to which section 57C(1)(b) refers – the applicant must serve written notice of the making of the application on the persons referred to in section 57E(a), (b) and (c) and on the Native Title Registrar.</i> The Aboriginal Land Rights Act 1976 <u>s41(6)</u> (6) <i>The application shall set out a comprehensive proposal which includes, but is not limited to, the following particulars:</i> (a) <i>a description of the applicant and of the business activities of the applicant;</i> (b) <i>a description of the affected land by reference to a map showing roads, topographical features, residential areas and other relevant features;</i> (c) <i>a copy of the instrument by which the consent of the Northern Territory Mining Minister was given and of any conditions relevant to the potential impact of the exploration works on the affected land and on Aboriginals, being conditions that are, under a law of the Northern Territory relating to mining for minerals, likely to be conditions to which the grant of the exploration licence will be subject;</i> (d) <i>an outline of the proposed exploration program stating, as far as practicable, the location, and likely effect, of proposed exploration works, and including details of:</i> (i) <i>the anticipated period of activity upon such works;</i>	This recommendation has not been implemented. <u>Comments</u> - The Petroleum Exploration Permit Application and Conditions Guidelines are not binding and therefore cannot be used to implement this recommendation. - The <i>Aboriginal Land Rights Act 1976</i>, s41(6) details the requirements that gas companies must fulfill when seeking approval by the Minister for gas exploration permits. It does not require that gas companies specifically provide a statement to native title holders containing such information. It does, however, require that this information be put together in the gas company's application. - The Petroleum Act requires gas companies to provide notification of its application to native title holders where relevant. These legal requirements would not necessarily "<i>ensure native title claimants have a clear understanding of the nature of the potential future exploration activity</i>" but would appear to fulfill this recommendation.

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			(ii) proposed and possible exploration techniques; (iii) the extent to which exploration activities will, or are likely to, affect the environment inside and outside the affected land; (iv) the proposed method and amount of vehicular access to and within the affected land with reference to any proposals to construct roads, landing strips or other access facilities; (v) the maximum number of people likely to be on the affected land from time to time; (vi) the proposed water, timber or other requirements to be obtained from the affected land; and (vii) proposals for minimising the effect of the proposed exploration works on the affected land; (viii) the estimated cost of exploration; (ix) the estimated geological potential of the area; (x) a proposal in relation to payments for exploration activities; (xi) the term of the exploration period; (xii) proposals for rehabilitation; and (xiii) proposals for minimising social impact;	
11.7	That Land Councils, traditional Aboriginal owners and gas companies consider making all, or if this is not appropriate, part of petroleum exploration agreements publicly available.	The Northern Territory Government consulted Land Councils affected by existing exploration permits and the Australian Petroleum and Production Exploration Association (APPEA) on the implementation of this recommendation. Land Councils and APPEA considered the request to make confidential Petroleum Exploration Agreements made under the <i>Native Title Act 1993</i> or <i>Aboriginal Land Rights Act (Northern Territory) 1976</i>, between Traditional Owners and exploration companies publicly available, and advised they do not support implementation of this request. Petroleum exploration agreements involving potential hydraulic fracturing will remain confidential.		This recommendation has intentionally not been implemented.

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14.2	<i>That the Minister must immediately notify the public of any proposed land release for any onshore shale gas exploration.</i> <i>That the Minister must consult with the public and stakeholders and consider any comments received in relation to any proposed land release.</i> <i>That the Minister be required to take into account the following matters when deciding whether or not to release land for exploration:</i> <i>the prospectivity of the land for petroleum;</i> <i>the possibility of co-existence between the onshore gas industry and any existing or proposed industries in the area; and</i> <i>whether the land is an area of intensive agriculture, high ecological value, high scenic value, culturally significant or strategic significance.</i> <i>That the Minister publish a statement of reasons why the land has been released and why coexistence is deemed to be possible.</i>	The <i>Petroleum Legislation Miscellaneous Amendments Bill 2019</i> was passed in the Legislative Assembly on 24 March 2020 and assented to on 30 March 2020. The <i>Petroleum Act 1984</i> was amended to require public notification of proposed land release and for submissions to be made including in relation to the possibility of co-existence. The amendments to the Act will commence in June 2020.	<i>Petroleum Act 1984</i> <u>Division 2 Exploration permits for petroleum</u> <i>(2A) A submission under subsection (2)(db) is limited to the following:</i> <i>(a) if there are other existing or proposed industries for a specified block – whether exploration of the specified block is possible at the same time;</i> <i>(b) whether the land of a specified block is suitable for exploration.</i> <i>Note for subsection (2A)(b)</i> <i>The submission may submit that the land is not suitable for exploration because the land is:</i> <i>(a) subject to intensive agriculture; or</i> <i>(b) of high ecological value; or</i> <i>(c) of high scenic value; or</i> <i>(d) culturally significant; or</i> <i>(e) of strategic importance to nearby residential areas</i> <u>16A Determination of release of blocks</u> <i>After the application period has ended, the Minister must:</i> <i>(a) consider any applications received and any submissions received; and</i> <i>(b) determine which blocks are to be released for exploration;</i> <i>(c) release the specified blocks for exploration; and</i> <i>(d) publish, on the Agency's website, the decision under paragraph (c) and the reasons why the blocks are appropriate for exploration.</i> <u>18 Notice of application for exploration permit</u> <i>(1) The Minister must cause to be published, at the expense of the applicant, in a newspaper circulating in the part of the Territory in which the application area is situated, or in any other publication that the Minister thinks fit, a notice containing:</i> <i>(c) the name of the applicant; and</i> <i>(d) a description of the application area sufficient to enable it reasonably to be identified or a map upon which the proposed boundaries of the application area are indicated by reference to named geographical features; and</i> <i>(d) a statement to the effect that a person may, within 2 months after the notice is published in the newspaper or other publication, lodge in writing with the Minister an objection to the grant.</i> <u>20 Determination of application for exploration permit</u> <i>(2) After the date specified in the notice given under section 19(2), the Minister must consider the following:</i> <i>(a) the application;</i>	The <i>Petroleum Act 1984</i> largely addresses recommendation 14.2. <u>Comments</u> The <i>Petroleum Act</i> requires that the Minister publish a statement of reasons for why the blocks are appropriate for exploration. The Act does not, however, require “a statement of reasons for why the land has been released and why coexistence is deemed to be possible”.

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			(b) any objections to the grant of the exploration permit; (c) <i>any replies or other comments of the applicant;</i> (d) <i>any other information supplied to the Minister as requested under section 16(5)(a);</i> (e) <i>any other matter the Minister considers relevant to the application.</i>	
14.3	<i>That Government not approve any application for an exploration permit in relation to areas that are not prospective for onshore shale gas or where co-existence is not possible. Priority must be given to the areas identified in Recommendation 14.4.</i>	The government's Reserved Block Policy, finalised in July 2019, determines areas of no petroleum potential and details exploration permits will not be granted over such areas.	The Reserved Block Policy identifies seven categories of reserved blocks: 1) parks and reserves, 2) towns and residential areas, 3) high conservation value, 4) Indigenous Protected Areas (IPAs), 5) areas of cultural significance, 6) high tourism value, and 7) no petroleum potential. The Policy then provides for a staged declaration process that will take place in four tranches: 1) immediate declaration, 2) declare after notice to park board, 3) declare after negotiation, and 4) consult with relevant land council. • <i>"The areas in Tranche 1 are from Categories 1, 2, 3 and 7. They do not overlap any granted EPs and, except for Tjuwaliyn (Douglas) Hot Springs Nature Park, are not on ALRA land. Stage 1 areas will be declared in the near future.</i> • <i>Tranche 2 comprises jointly managed parks and reserves on and off ALRA land. These parks and reserves will be declared as soon as the relevant Board of Management for the park or reserve has been notified of the proposed declaration.</i> • <i>Tranche 3 comprises areas that overlap granted exploration permits. Government will negotiate with the relevant petroleum companies regarding the relinquishment of these areas and declare reserved blocks accordingly.</i> • <i>Tranche 4 will occur when the Land Councils advise the Minister for Resources that either: (a) they support the declaration of proposed reserved blocks on ALRA land; or (b) they have not consented to the grant of an EP under s42(1) of the ALRA. The areas to be granted in Tranche 4 comprise approximately 60% of the total area to be declared."</i>	The Reserved Block Policy adequately addresses recommendation 14.3.
14.4	<i>That prior to the grant of any further exploration approvals, the following areas must be declared reserved blocks under s 9 of the Petroleum Act, each with an appropriate buffer zone:</i> • <i>areas of high tourism value;</i> • <i>towns and residential areas (including areas that have assets of strategic importance to nearby residential areas);</i> • <i>national parks;</i> • <i>conservation reserves;</i> • <i>areas of high ecological value;</i> • <i>areas of cultural significance; and</i> • <i>Indigenous Protected Areas.</i>	The government's Reserved Block Policy was finalised in July 2019 in accordance with the Inquiry's recommendation, following community consultation. There will be a staged approach to declaring reserved blocks under s9 of the Petroleum Act. Areas to be declared a reserved block and maps of the areas can be found here	The NT government has published a Reserved Blocks Policy to implement this recommendation (see here and here). The Policy identifies (largely through maps) the proposed reserved blocks. It contains some description of the data sets used to underpin the maps. The Policy sets out a proposal for four tranches of declarations (<i>i.e.</i>, identifies the order of declarations). The tranches are based on whether consultation or negotiation will be required prior to the declaration of reserved block.	The Reserved Blocks Policy does not adequately address recommendation 14.4. <u>Comments</u> • There are no clear criteria for each reserved block category identified by the Inquiry. • There is limited and/or inadequate data or evidence supporting the majority of the categories. • The Policy effectively ignores some categories altogether, based on the false assumption that existing legislative protections are sufficient (<i>e.g.</i>, areas of cultural significance). • There are no buffer zones identified for proposed reserved blocks. • There is no clear process to enable the ongoing identification of no-go zones based on new or improved data (especially the SREBA).

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				Also, as we understand it, only reserved blocks from Tranche 1 and 2 have been declared to date. This list is comprised of national parks, areas for future water reserve development, and municipal areas. Blocks that are likely to be in greater conflict with petroleum interests have not yet been declared, but should be declared prior to any additional exploration permits being granted.
14.5	<i>That the Government immediately considers and implements mechanisms to retrospectively apply Recommendation 14.4 to granted exploration permits.</i>	The government's Reserved Block Policy determines that it will be negotiating with exploration permit holders that have identified reserved blocks on their tenure to relinquish those areas from their permit area.	Reserved Blocks Policy Tranche 3 includes areas where there is a granted exploration permit. The Department of Industry, Tourism and Trade will negotiate with the permit holders to relinquish those areas. The NT government has an updated list of areas declared reserved blocks here.	The Reserved Blocks Policy adequately meets recommendation 14.5, but we have concerns about its implementation. <u>Comments</u> - Analysis of how effective retrospective protection of important areas in Tranche 3 requires a case-by-case approach. - However, it does not appear that any exploration permit blocks have been adjusted thus far.
14.6	<i>That a statutory land access agreement be required by legislation.</i> <i>That prior to undertaking any onshore shale gas activity on a Pastoral Lease (including but not limited to any exploration or production activity), a land access agreement must be negotiated and signed by the Pastoral Lessee and the gas company.</i> <i>That breach of the land access agreement be a breach of the relevant exploration or production approval giving rise to the onshore shale gas activity being carried out on the land.</i>	The <i>Petroleum Legislation Miscellaneous Amendments Bill 2019</i> was passed in the Legislative Assembly on 24 March 2020 and was assented to on 30 March 2020. The amendments to the Act commenced in June 2020 and allow for regulations to be made in relation to land access. The government consulted with affected stakeholders on <i>draft Petroleum Regulations</i> that detail the requirements of statutory land access agreements. The <i>Petroleum Regulations 2020</i> have been made by the Administrator and commence 1 January 2021.	Petroleum Regulations 2020 (NT) <u>Division 2</u> <u>Requirement for access agreements</u> <u>12 Access agreement required before commencement of operations</u> <i>(1) Subject to subregulation (2), an interest holder must not commence regulated operations on any particular area of land except in accordance with an approved access agreement.</i> Note for subregulation (1) Regulation 47 provides that it is an offence for an interest holder to commence regulated operations on land without the land being the subject of an approved access agreement.	The <i>Petroleum Regulations 2020</i> do not adequately address 14.6. <u>Comments</u> - The <i>Petroleum Regulations 2020</i> do require access agreements to be in place before commencement of petroleum operations (including exploration permits and other preliminary activities). - There do not appear to be any provisions specifically about pastoral leases. - While it is an offence to commence regulated operations on land without an approved access agreement under the <i>Petroleum Regulations 2020</i>, these regulations do not specifically state that a breach of the access agreement is a breach of the relevant exploration or production approval.
14.7	<i>That in addition to any terms negotiated between the pastoralist and the gas company, the statutory land access agreement must contain the above standard minimum protections for pastoralists.</i> <u>Minimum Protections</u> - minimum notice periods, given either orally or in writing, except in the case of emergencies; - an obligation to conduct the onshore shale gas activities in a manner that minimizes disturbance to livestock and property;	The <i>Petroleum Legislation Miscellaneous Amendments Bill 2019</i> was passed in the Legislative Assembly on 24 March 2020 and was assented to on 30 March 2020. The amendments to the Act commenced in June 2020 and allow for regulations to be made in relation to land access. The government consulted with affected stakeholders on <i>draft</i>	Petroleum Regulations 2020 <u>Division 2</u> <u>Requirement for access agreements</u> <u>13 Parties</u> <i>(1) The parties to an approved access agreement are: (a) the interest holder of the relevant petroleum interest; and (b) the designated person of the relevant land.</i> <u>Schedule 2 Standard minimum protections</u>	The <i>Petroleum Regulations 2020</i> adequately address 14.7. <u>Comments</u> - There do not appear to be any provisions specifically about pastoral leases. - However, the "designated person of the relevant land" presumably refers to pastoralists. - The Schedule 2 Standard Minimum Protections explicitly include all of the protections called for in the recommendation.

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	• an obligation to return any gates to their original position unless advised otherwise by the Pastoral Lessee; • an obligation to obtain the Pastoral Lessee's consent prior to the erection of any gate, fence or other barrier on the land; • an obligation to repair any gate, fence, grid or other barrier on the land damaged or harmed by the gas company or any subcontractor engaged in onshore shale gas activity on the land; • agreement upon the location and size of any camps on the land necessary to conduct the onshore shale gas activities; • notification to the pastoral lessee as soon as practically possible of all spills, incidents, harm or damage to the Pastoral Lease and its infrastructure and operation; • a minimum amount of compensation payable for each well drilled (see the discussion in Section 14.6.1.6 below); • compensation for any decrease in the value of the land; • 'make good' provisions for any damage or harm to the water (surface and ground), land, infrastructure, or operation of the Pastoral Lease. The onus of proof is to be reversed so that the obligation is on the gas company to demonstrate that the harm or damage was not caused by the onshore shale gas activities; • indemnification for any harm or damage caused by any third party engaged by the gas company or any of its sub-contractors to the water (surface and ground), land, infrastructure or operation of the Pastoral Lease; • the provision of appropriate guarantees where the holder of the approval to carry out the relevant onshore shale gas activity is not the person or company undertaking the activities on the land; • to the extent reasonable and permitted by law, a release by the gas company of the Pastoral Lessee for any death or personal injury to the gas company's personnel, damage to or loss of the gas company's property or consequential loss, including financial loss;	<i>Petroleum Regulations</i> that detail the requirements of statutory land access agreements. The <i>Petroleum Regulations 2020</i> have been made by the Administrator and commence 1 January 2021.		

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	• restrictions on, and notifications of, the sale, assignment or transfer of any rights or obligation by the gas company; • no confidentiality clause unless by mutual agreement of the parties; • payment of all reasonable legal, financial and technical fees incurred in respect of the agreement must be borne by the gas company holding the approval for the activity; • the payment of all duties and taxes payable in respect of the land access agreement; • clear dispute resolution mechanisms; • clear termination mechanisms; • agreement on access points, roads and tracks prior to entering onto the lease; • induction training for all employees or contractors of the gas company; • an obligation to prevent the spread of weeds, feral pests and diseases, and to ensure biosecurity; • clear obligations with respect to rehabilitation and remediation, including the provision for the independent assessment of all rehabilitation and remediation; and • the ability to renegotiate the land access agreement after a specified period of time, including post-exploration and pre-production			
14.8	That prior to the grant of any further exploration permits or production approvals, the Government enacts a minimum mandatory compensation scheme payable to Pastoral Lessees for all onshore shale gas production on their Pastoral Lease. Compensation should be calculated by reference to the impact that the development will have on the Pastoral Lease and the Pastoral Lessee, for example, the number of wells drilled, the value of the land (both before and after), and the area of land cleared and rendered unavailable for pastoral activities.	The Petroleum Legislation Miscellaneous Amendments Bill 2019 was passed in the Legislative Assembly on 24 March 2020 and was assented to on 30 March 2020. The amendments to the Act commenced in June 2020 and allow for regulations to be made in relation to land access. The government consulted with affected stakeholders on draft Petroleum Regulations that detail the requirements of statutory land access agreements. The Petroleum Regulations 2020 have been made by the Administrator and commence 1 January 2021.	Petroleum Regulations 2020 <u>Part 3 Compensation</u> <u>6 Compensation to owners</u> (1) For section 81(1)(c) of the Act, the following circumstances are prescribed: (a) the drilling of a well on the land by the interest holder; (b) to the extent of an owner's or occupier's respective interests in the land – any decrease in the market value of the land caused by regulated operations carried out on the land by the interest holder. (2) For section 81(7A) of the Act: (a) the compensation payable under subregulation (1)(a) may be: (i) an amount for each well; or (ii) an amount represented by improvements or work on the land provided or carried out by the interest holder; and (b) the compensation payable under subregulation (1)(b) may be: (i) an amount equal to the decrease in market value of the owner's or occupier's interest in the land (as the case may be); or (ii) an amount represented by improvements or work on the land provided or carried out by the interest holder.	The Petroleum Regulations 2020 adequately address recommendation 14.8. <u>Comments</u> • There do not appear to be any provisions specifically about pastoral leases, but the Petroleum Regulations 2020 do provide for compensation to landowners in general based on the impact the development will have on the land.

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			(3) <i>The method of compensation under subregulation (2)(a) or (b) will be determined by agreement between the parties or, if they are unable to agree, by the Tribunal.</i> <u>Schedule 2</u> (12) <i>Compensation for drilling</i> (13) <i>Compensation for decrease in value of land</i> (14) <i>General obligation to make good</i>	
14.10	<i>That any person may lodge an objection to the proposed grant of an exploration permit within a prescribed time limit.</i> <i>That all objections received by the Minister must be published online. That the Minister must, in determining whether to grant or refuse the application, take into account any objection received.</i>	The <i>Petroleum Legislation Miscellaneous Amendments Bill 2019</i> was passed in the Legislative Assembly on 24 March 2020 and assented to on 30 March 2020. The <i>Petroleum Act 1984</i> was amended to allow any person to lodge an objection to the proposed grant of an exploration permit and for those objections to be published online. The amendments to the Act will commence in June 2020.	<i>Petroleum Act 1984</i> <u>Section 18</u> (1) <i>The Minister must cause to be published, at the expense of the applicant, in a newspaper circulating in the part of the Territory in which the application area is situated, or in any other publication that the Minister thinks fit, a notice containing:</i> *** (e) <i>a statement to the effect that a person may, within 2 months after the notice is published in the newspaper or other publication, lodge in writing with the Minister an objection to the grant.</i> <u>Section 19</u> (1) <i>Objections to the grant of an exploration permit may be lodged in response to a notice published under section 18(1) in accordance with the statement referred to in section 18(1)(e).</i> (2A) <i>The Minister must, as soon as practicable after receiving the objections, publish the objections on the Agency's website.</i>	The <i>Petroleum Act 1984</i> adequately address recommendation 14.8. <u>Comments</u> • Anyone can lodge an objection to a proposed grant of an exploration permit within 2 months of the notice publication. • It is not possible to assess whether the Minister takes all objections into account without considering each exploration permit application on a case-by-case basis.
14.11	<i>That the Petroleum Act be amended to make the principles of ESD a mandatory relevant consideration for any decision made under that Act in relation to any onshore shale gas industry.</i> <i>That the principles of ESD must be taken into account and applied by a decision-maker in respect of all decisions concerning any onshore shale gas industry.</i>	The <i>Petroleum Legislation Miscellaneous Amendments Bill 2019</i> was passed in the Legislative Assembly on 24 March 2020 and assented to on 30 March 2020. The <i>Petroleum Act 1984</i> was amended to require the principles of ecologically sustainable development are considered in decision-making under the <i>Petroleum Act 1984</i> and the <i>Petroleum (Environment) Regulations 2016</i>. The amendments to the Act commenced in June 2020.	<i>Petroleum Act 1984</i> <u>Part IA Principles of ecologically sustainable development</u> <u>6A Principles of ecologically sustainable development</u> (1) <i>The Minister must consider and apply the principles of ecologically sustainable development in making the following decisions under this Act:</i> (a) <i>the decisions specified in Schedule 1;</i> (b) <i>a decision made under a direction given by the Minister under section 71(1);</i> (c) <i>any other prescribed decision.</i> (2) <i>Unless otherwise expressly provided, in making a decision under this Act and stating the reasons for that decision, the Minister is not required to specify how the Minister considered or applied these principles.</i> <u>133 Decision in relation to variation of condition of production licence</u> <i>The Minister is not required to consider and apply the principles of ecologically sustainable development in making a decision made under section 55(2) in relation to an application under section 55(1) made before the commencement.</i> <u>55 Variation etc. of condition of production licence</u>	The <i>Petroleum Act 1984</i> does not adequately address recommendation 14.11. <u>Comments</u> • Although the recommendation states that the principles of ecologically sustainable development (ESD) should be considered for any decision made under the <i>Petroleum Act</i> relating to the onshore shale gas industry, the Act provides for an exemption where the Minister is varying, suspending, or waiving a condition of a production licence. This exemption could result in negative environmental impacts depending on the condition at issue. • Whether the principles of ESD are taken into account and applied by the decision-maker for all decisions can only be assessed on a case-by-case basis.

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			(1) Subject to Part IIA if applicable, a production licensee may apply to the Minister to vary, suspend or waive a condition of his licence. (1A) An application under subsection (1) must be accompanied by the prescribed fee. (2) Subject to Parts IIA and IIB as applicable, on receiving an application under subsection (1), the Minister may, by notice served on the licensee, vary, suspend or waive a condition of the licence, in accordance with the application. Environment Protection Act 2019 Ecologically sustainable development means development that improves the total quality of human life, both now and in the future, in a way that: (a) maintains the ecological processes on which all life depends; and (b) recognises the need for development to be equitable between current and future generations.	
14.12	<i>That the Minister must not grant any further exploration permits unless satisfied that the applicant (including any related entity) is a fit and proper person, taking into account, among other things, the applicant's environmental history and history of compliance with the Petroleum Act and any other relevant legislation both domestically and overseas.</i> <i>That failure to disclose a matter upon request relevant to the determination of whether an applicant is a fit and proper person will result in civil and/or criminal sanctions under the Petroleum Act.</i> <i>That the Minister's reasons for determining whether or not the applicant is a fit and proper person be published online.</i>	The Petroleum Act 1984 was amended in March 2019 to require an appropriate person test for the issuing of a permit. The changes to the legislation came into effect in April 2019.	Petroleum Act 1984 Section 15A of the Petroleum Act lays out factors for determining whether the applicant is "an appropriate person to hold a permit or licence under the Act," including the applicant's compliance with prescribed legislation (whether the applicant has had a license revoked or suspended, record of compliance with the prescribed environmental legislation of any director where the applicant is a corporation. Section 15A(6) lists the prescribed legislation and prescribed environmental legislation. Both of these lists include a catch-call for foreign legislation ("an Act of another jurisdiction that is similar in nature and purpose to an Act listed above"). Section 15A(4) <i>"The Minister may require an applicant or associated entity to provide more information in relation to any matter in order for the Minister to determine whether the applicant or entity is an appropriate person to hold a permit or licence under this Act."</i> Section 15A(5) provides for publication: <i>"The Minister must publish, on the Agency's website, the reasons why the Minister has determined that an applicant, and any associated entity of the applicant, is or is not an appropriate person to hold a licence or permit under this Act."</i> <u>106 Offences generally</u> (1) A person shall not contravene or fail to comply with this Act or a direction or notice under this Act. (2) A person who contravenes or fails to comply with this Act or a direction or notice under this Act for which a penalty is not provided by this Act, other than this section, is punishable upon being found guilty by a maximum penalty of: (a) if the offender is a natural person – 100 penalty units; or (b) if the offender is a body corporate – 500 penalty units.	Section 15A of the <i>Petroleum Act</i> adequately addresses recommendation 14.12. <u>Comments</u> Section 15A(4) read together with Section 106 provides for penalties when an applicant fails to comply with a request for more information as part of the appropriate person test.

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14.15	<i>That prior to the grant of any further exploration approvals, all draft EMPs for hydraulic fracturing must be published in print and online and available for public comment prior to Ministerial approval.</i> <i>That all comments made on draft EMPs must be published online.</i> <i>That the Minister must take into account comments received during the public consultation period when assessing a draft EMP.</i>	Petroleum (Environment) Regulations 2016 were amended on 19 December 2018 to meet the requirements of this recommendation. All draft Environment Management Plans seeking Minister's consideration for drilling of petroleum wells and hydraulic fracturing activities must be advertised for a 28 day public comment period; comments received must be published online; and the Minister must take into account all comments received before making a decision on the draft Environment Management Plan.	<i>Petroleum (Environment) Regulations</i> amendment provides for this. See clause 8A generally. <u>8A Publishing certain plans for comment</u> (1) <i>The Minister must publish an environment management plan if:</i> (a) <i>the plan is submitted to the Minister under regulation 6; and</i> (b) <i>the plan relates to the drilling of a well or to hydraulic fracturing; and</i> (c) <i>the plan complies with regulation 8.</i> (2) <i>The plan must be published, in any manner the Minister considers appropriate, within 14 days of the Minister receiving the plan.</i> (3) <i>The requirement to publish does not apply to:</i> (a) <i>information received under regulation 10 [Minister may require further information]; or</i> (b) <i>a modified plan submitted under regulation 11 [Approval of plan, refusal to approve and other actions, which permits the Minister to allow the submission of a modified plan where the original does not meet the approval criteria]; or</i> (c) <i>a plan that relates to the drilling of a water bore.</i> (4) <i>The Minister must publish, with the plan, a notice stating the following:</i> (a) <i>that the plan is published for public comment;</i> (b) <i>that interested persons may submit written comments on the plan to the Minister no later than 28 days after the date of its publication;</i> (c) <i>the address to which comments may be sent or delivered;</i> (d) <i>that all comments received will be published.</i> (5) <i>In publishing a plan, the Minister:</i> (a) <i>must withhold from the public information of a commercially confidential nature; and</i> (b) <i>may withhold other information from the public if satisfied there are reasonable grounds for doing so.</i> <u>8B Public comments on plan</u> (1) <i>Interested persons may submit written comments on a plan published under regulation 8A to the Minister no later than 28 days after the date of its publication.</i> (2) <i>The Minister must publish any comments submitted under subregulation (1), in any manner the Minister considers appropriate, after the end of the 28 day period.</i>	The amendment to the <i>Petroleum (Environment) Regulations</i> does not adequately address the recommendation. <u>Comments</u> - The requirement to publish EMPs does not include: (a) modified plans submitted after the Minister considers that the original plan did not meet the approval criteria; or (b) additional information submitted at the request of the Minister. This leaves the provisions open to abuse to avoid public scrutiny. We recommend this provision be revised to require publication of modified plans and information provided at the request of the Minister. - The requirement to publish EMPs excludes information of a “commercially confidential nature” and any other information deemed “reasonable” by the minister. There is no guidance on what is “commercially confidential” or what may be deemed “reasonable” by the Minister. - Also, the Minister has discretion to publish public comments on the EMP “in any manner the Minister considers appropriate.” This provision could be open to abuse to prevent public scrutiny. In practice, however, all the comments appear to be published online with the EMP upon the taking of a decision. - Finally, “all comments made on the EMPs” should include comments made by the Minister in requesting resubmissions of the EMPs. In practice, however, resubmission notices from the Minister to the applicant do not appear to be published online.
14.16	<i>That prior to the grant of any further exploration approvals, all notices and reports of environmental incidents, including reports about reportable incidents under the Petroleum Environment Regulations, must be published immediately upon notification in print and online.</i>	The Petroleum (Environment) Regulations 2016 were amended on 19 December 2018 to meet the requirements of this recommendation.	<i>Petroleum (Environment) Regulations</i> amendment allows for this: see clause 35A. <u>Clause 35A Publication of notices and reports</u> (1) <i>The Minister must publish the following documents:</i> (a) <i>written notice of a reportable incident under regulation 33;</i> (b) <i>a final report about a reportable incident under regulation 34;</i> (c) <i>a report about recordable incidents under regulation 35.</i>	The <i>Petroleum (Environment) Regulations</i> adequately address this recommendation. <u>Comments</u> The regulations require the Minister to withhold information “of a commercially confidential nature” and allow her to if there are “reasonable grounds,” without providing an guidance on the exercise of the Minister’s discretion.

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			(2) The document must be published, in any manner the Minister considers appropriate, as soon as practicable but no later than 2 business days of the Minister receiving the notice or report. (3) In publishing the document, the Minister: (a) must withhold from the public information of a commercially confidential nature; and (b) may withhold other information from the public if satisfied that there are reasonable grounds for doing so.	There should be a transparent, easy, and consistent way for the public to access this information. The vagueness of the location of the information, as well as the right of withholding, does not align with the Inquiry's recommendation.
14.18	That prior to the grant of any further exploration approvals, the Government develops and implements enforceable codes of practice with minimum prescriptive standards and requirements in relation to all exploration and production activities, including but not limited to, land clearing, seismic surveys, well construction, drilling, hydraulic fracturing and decommissioning and abandonment.	The Petroleum (Environment) Regulations 2016 were amended on 19 December 2018 to meet the requirements of this recommendation.	Petroleum Act 1984 allows for this. Section 118(2)(ra): ...the Administrator may in the Regulations prescribe for or in relation to ... the making and the enforcement of a code of practice, including by providing that a contravention of the code is an offence against the regulations The final Code of Practice was released on 31 May 2019.	The Code of Practice adequately addresses recommendation 14.18. The details of the Code do not always adhere faithfully to the larger set of recommendations offered by the Inquiry. <u>Comments</u> - As noted throughout this document, one major concern with the Code is that many of the "requirements" are "preferred," rather than "mandatory." This significantly weakens the implementation of the recommendations. - The Code relies on other guidelines (e.g., the NT Weed Management Planning Guide, or the DENR's Land Clearing Guidelines) that may or may not align with the larger set of recommendations of the panel.
14.19	That prior to granting any further exploration approvals, cl 3(2)(b) of Schedule 1 of the Petroleum Environment Regulations be amended to read as follows: "3(2)(b) [delete 'as far as practicable'] any cumulative effects of those impacts and risks when considered both together and in conjunction with other events, activities or industries, including any other petroleum activities and extractive industries, that have occurred or that may occur in or near the location of the activity or in or near the region, area or play where the regulated activity is located".	The Petroleum (Environment) Regulations 2016 were amended on 19 December 2018 to meet the requirements of this recommendation.	Petroleum (Environment) Regulations were amended in December 2018 to implement this recommendation. Schedule 1, clause 3(2): The assessment mentioned in subclause (1)(a) must be of: (a) all the environmental impacts and environmental risks arising directly or indirectly from: (i) all aspects of the regulated activity; and (ii) potential emergency conditions, whether resulting from an incident or any other reason; and (b) the cumulative effects of those impacts and risks when considered with each other and in conjunction with any other activities or events that occurred or may occur in or near the permit area for the regulated activity. Example for clause 3(2)(b) of other activities or events: Activities or events associated with: (a) other exploration for, or production of, petroleum; or (b) the exploration for, or extraction of, minerals or extractive minerals.	The PERs do not adequately address recommendation 14.19 <u>Comments</u> - The panel provided precise language in this context that should be adhered to precisely for the following reasons: a) In its discussion preceding this recommendation, on pages 413-414 of the final report, the Inquiry raised concerns about "exploration creep," being the risk that large numbers of wells may be drilled and fracked under exploration permits. b) This recommendation is intended to fulfil the Panel's goal to ensure that safeguards must exist to prevent exploration creep and require cumulative impacts of any onshore shale gas activities during the exploration phase to be assessed, taken into account and appropriately mitigated. c) The Panel also intended the recommendation to remove the previous ambiguity about the

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				geographical reach of assessment of cumulative impacts in EMPs. d) As such, in our view, the limitation in the PER to assess only cumulative impacts “<i>in or near the permit area</i>” fails to fulfill the requirements of the recommendation to assess impacts “<i>in or near the location of the activity and in or near the region, area or play where the regulated activity is located.</i>” e) Additionally, the examples given in the PERs of what constitutes “<i>other activities or events</i>” is limited to petroleum and mining activities, but there may be other activities in the project area that are “<i>other events, activities, or industries</i>” that should be considered in cumulative impacts outside of these industries, such as cattle grazing.
14.20	<i>That the Minister must be satisfied that an applicant is a fit and proper person to hold a production licence, taking into account, among other things, the applicant's environmental history and history of compliance with the Petroleum Act and any other relevant legislation both domestically and overseas.</i> <i>That failure to disclose a matter relevant to the determination of whether an applicant is a fit and proper person upon request will result in civil and/or criminal sanctions under the Petroleum Act.</i> <i>That the Minister's reasons for determining whether or not the applicant is a fit and proper person be published online.</i>	The <i>Petroleum Act</i> was amended in March 2019 to require an appropriate person test for the issuing of a licence. The changes to the legislation came into effect in April 2019.	Section 15A of the <i>Petroleum Act 1984</i> lays out factors for determining whether the applicant is “<i>an appropriate person to hold a permit or licence under the Act.</i>”	Section 15A of the <i>Petroleum Act</i> adequately addresses recommendation 14.20. <u>Comments</u> Section 15A(4) read together with Section 106 provides for penalties when an applicant fails to comply with a request for more information as part of the appropriate person test.
14.21	<i>That as part of the environmental assessment and approval process for all exploration and production approvals, the Minister be required to consider the cumulative impacts of any proposed onshore shale gas activity.</i>	The environmental assessment processes and the assessment of environment management plans under the <i>Petroleum (Environment) Regulations 2016</i> already provides scope for the assessment of cumulative impacts where appropriate. The NT EPA is providing advice to the Minister for Environment and Natural Resources on all environment management plans to assist with the Minister's consideration of cumulative impacts.	Petroleum (Environment) Regulations 2016: <u>Schedule 1, Part 1</u> <u>3 Assessment of environmental impacts and environmental risks</u> (1) A plan must include: (a) details of all environmental impacts and environmental risks of the regulated activity described in the plan and an assessment of those impacts and risks; and (b) a description of the process used to assess the environmental impacts and environmental risks. (2) The assessment mentioned in subclause (1)(a) must be of: (a) all the environmental impacts and environmental risks arising directly or indirectly from: (i) all aspects of the regulated activity; and (ii) potential emergency conditions, whether resulting from an incident or any other reason; and	The PER adequately address recommendation 14.21. EMPs must assess cumulative impacts, and the Minister must approve these plans.

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		The Environment Protection Act 2019 establishes a reformed environmental impacts assessment and approval process for the Territory. It commenced on 28 June 2020 and requires environmental impact assessment and approval of proposed actions that have the potential to have a significant impact on the environment. The Act defines impact as including cumulative impacts.	(b) <i>the cumulative effects of those impacts and risks when considered with each other and in conjunction with any other activities or events that occurred or may occur in or near the permit area for the regulated activity.</i> Example for clause 3(2)(b) of other activities or events: <i>Activities or events associated with: (a) other exploration for, or production of, petroleum; or (b) the exploration for, or extraction of, minerals or extractive minerals.</i> <u>Part 2 Environment management plans</u> <u>Division 1 Submission of environment management plan for approval</u> <u>6 Submission of plan for approval</u> <i>(1) An interest holder who proposes to carry out a regulated activity must first submit to the Minister, for approval, an environment management plan relating to the activity.</i>	
14.23	<i>That prior to the grant of any further exploration approvals, the Petroleum Act and Petroleum Environment Regulations be amended to allow open standing to challenge administrative decisions made under these enactments.</i>	The <i>Petroleum Act 1984</i> was amended in March 2019 to enable open standing for persons to seek judicial review of decisions within the <i>Petroleum Act 1984</i> and Petroleum (Environment) Regulations 2016, as outlined in the legislation. The changes to the legislation came into effect in April 2019.	Amendments to Petroleum (Environment) Regulations and Petroleum Act 1984 allow this standing. Petroleum (Environment) Regulations <u>Division 7 Review of decisions</u> <u>Subdivision 1 Judicial review</u> <u>29AA Judicial review of decision</u> <i>Any person may seek judicial review by the Supreme Court of a decision specified in Schedule 1A, whether or not any right of the person has been affected by, or as a consequence of, the decision.</i> Petroleum Act 1984 <u>Part II Division 6 Review of determinations</u> <u>Subdivision 1 Judicial review</u> <u>57ABA Judicial review of decision or determination</u> <i>Any person may seek judicial review by the Supreme Court of a decision or determination specified in the Schedule, whether or not any right of the person has been affected by, or as a consequence of, the decision or determination.</i>	The <i>Petroleum (Environment) Regulations 2016</i> and <i>Petroleum Act 1984</i> adequately address recommendation 14.23.
14.26	<i>That prior to the grant of any further exploration approvals, the Government develops and implements a robust and transparent compliance and monitoring strategy, having regard to the principles set out in the ANAO Administering Regulation: Achieving the right balance guide, and the policy in SA.</i>	The Departments of Primary Industry and Resources and Environment, Parks and Water Security published a Monitoring and Compliance Strategy in July 2019, which is publicly available on the DEPWS website .	A Compliance and Monitoring Strategy was released in July of 2019: https://denr.nt.gov.au/data/assets/pdf_file/0007/715543/Monitoring-and-compliance-strategy.pdf. Its 18 pages lay out principles of monitoring, and it is not actually a monitoring program for the industry, per se. The Strategy promises that the DENR will produce such a program in the future: <i>“The Department of Primary Industry and Resources has committed to 24 onsite regulatory inspections for petroleum activities in 2019-20, as detailed in the Agency’s Key Performance Indicators, within the NT Government’s Budget Paper 3 for 2019-20.</i> <i>The Department of Environment and Natural Resources is presently developing its compliance monitoring program which will be published on its website. This monitoring program will be targeted to the environmental impacts and risks</i>	The government’s Compliance and Monitoring Strategy does not adequately address recommendation 14.26, which has the goal of achieving certainty and transparency (see pages 423-424 of the Inquiry’s report). <u>Comments</u> - The Strategy appears to be a stopgap measure to enable exploration to proceed, given that it has few specifics beyond promising a monitoring program from DENR in the future. - The Strategy emphasizes the primary role of corporate reporting and third-party complaints, and notes that sanctions or revocation of a licence are a last resort. For example, see the pyramid figure on page 13, with “Preventative measures” as the

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			<i>identified in the Environment Management Plans currently being considered for approval.</i> <i>As an indicative guide, the following operational elements are likely to attract monitoring actions, whether it be through reporting, inspections or audits, and dependent on the level of risk.</i> 1. Exploration <i>Initial site establishment (including native vegetation clearing); Geophysical and Geological (G&G) Surveys; Drilling and well construction; Civil construction; Well testing; Well interventions, activities and workovers; Well decommissioning; Site rehabilitation Monitoring and compliance strategy for onshore petroleum</i> 2. Production <i>Safety and System Integrity testing and maintenance; Management Plan Implementation Strategies; Drilling and well construction; Vegetation clearing; Civil construction; Geophysical and Geological surveys; Well interventions, activities and workovers; Facilities construction, operations and maintenance; Site rehabilitation; Transportation</i> 3. Decommissioning and Rehabilitation <i>Well abandonment or decommissioning; Facilities removal; Site rehabilitation; On-going monitoring and reporting.” (see p. 10-11 of the Strategy).</i>	foundation and “Punitive measures” as the much smaller tip. Also, on page 16, the Strategy states that it “promotes a strong culture of accountability, self-monitoring and reporting from Industry. The primary responsibility for monitoring compliance with environment management plans, operational licence conditions, codes of practice and national and international standards will reside with the interest holder.”
14.27b	<i>That prior to any further exploration approvals being granted, a hotline be established permitting anonymous reporting about any onshore shale gas industry non-compliance. That all such reports be immediately investigated.</i>	An Onshore Gas Non-compliance Hotline was introduced in November 2018 to address recommendation 14.27b.	The community hotline can be found here .	This recommendation has been implemented.
14.34	<i>That prior to the grant of any further exploration approvals, in order to ensure independence and accountability, there must be a clear separation between the agency with responsibility for regulating the environmental impacts and risks associated with any onshore shale gas industry and the agency responsible for promoting that industry.</i>	The amendment to the Administrative Arrangement Orders were completed on 27 February 2019. This resulted in Minister for Environment and Natural Resources having administrative responsibility for provisions of the <i>Petroleum Act 1984</i> relating to environmental regulation of petroleum activities (including the <i>Petroleum (Environment) Regulations 2016</i> and the <i>Environmental Offences</i>). Minister for Primary Industry and Resources holds all other regulatory functions and powers under the <i>Petroleum Act 1984</i>. Amendments to the <i>Northern Territory Environment Protection Authority Act 2012</i> commenced on 30 November 2018 allowing	The government's implementation website says: <i>“The amendment to the Administrative Arrangement Orders were completed on 27 February 2019. This resulted in Minister for Environment and Natural Resources having administrative responsibility for provisions of the Petroleum Act 1984 relating to environmental regulation of petroleum activities (including the Petroleum (Environment) Regulations 2016 and the Environmental Offences). Minister for Primary Industry and Resources holds all other regulatory functions and powers under the Petroleum Act 1984.</i> <i>Amendments to the Northern Territory Environment Protection Authority Act 2012 commenced on 30 November 2018 allowing for additional members to be appointed to the NT EPA and introducing changes that will allow ministers to seek the authority's advice on a range of specific proposals and plans targeting improved environmental management and protection.</i> <i>Two new NT EPA members with extensive experience in the petroleum industry commenced on 1 January 2019 and the NT EPA has begun providing the Minister advice to inform decisions as to whether or not to approve Environment Management Plans and what conditions should be attached.”</i> According to the Monitoring and Compliance Strategy published in July 2019, the roles of the Departments are divided as follows:	This recommendation has largely been implemented, with a few weaknesses. <u>Comments</u> • It appears that the two NT EPA members with “extensive experience in the petroleum industry” have spent much of their careers working in or on behalf of the oil and gas industry, making their “clear separation” from the industry questionable. • The Department of Industry, Tourism and Trade's maintenance of control over the decision about the Well Operations Management Plan (WOMP) is not in line with the recommendation.

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		for additional members to be appointed to the NT EPA and introducing changes that will allow ministers to seek the authority's advice on a range of specific proposals and plans targeting improved environmental management and protection. Two new NT EPA members with extensive experience in the petroleum industry commenced on 1 January 2019 and the NT EPA has begun providing the Minister advice to inform decisions as to whether or not to approve Environment Management Plans and what conditions should be attached.	<i>The Department of Primary Industry and Resources (the Resource Regulator) now has the principal functions of: promoting land release; managing titles, access; managing securities; assessing and approving Well Operations Management Plans (WOMP); assessing and approving Well Integrity Management Plans (WIMP); activity and production reporting; providing technical and operational standards and codes of practice; providing information and assessment of exploration permits, retention licenses and production licenses.</i> <i>The Department of Environment and Natural Resources (the Environment Regulator) has the principal function of: liaising with industry prior to lodging applications regarding environmental planning and management requirements for proposed projects; assessing the project specific environmental risks and impacts as provided through the environment management plan (EMP) and/or environmental impact statement (EIS); providing assistance to the Northern Territory Environment Protection Authority (NTEPA) and Minister for Environment and Natural Resources in determining whether an EMP approval should be granted and appropriate environmental standards and conditions to be included; monitoring and auditing compliance with EMPs and environmental legislative requirements; making enforcement decisions and recommendations to the Minister for Environment and Natural Resources for environmental offences.</i>	
16.2	<i>That an implementation framework including details of who, when and how each of the recommendations will be implemented, be completed within three months from any lifting of the moratorium.</i>	The implementation plan has been released and is available to view at hydraulicfracturing.nt.gov.au.	The Implementation Plan sets out a three-stage process for implementing the Inquiry recommendations. STAGE ONE – PLANNING Stage One outlines the tasks following the lifting of the moratorium. It covers setting up the governance arrangements for implementation, establishing the Onshore Shale Gas Community and Business Reference Group and starting work on some of the major reform areas. This Implementation Plan is the major milestone in Stage One. STAGE TWO – PREPARING FOR EXPLORATION Stage Two comprises implementing the recommendations that need to be done early including those that the Inquiry determined must be complete before any exploration involving drilling or hydraulic fracturing and stimulation of unconventional wells. The recommendations summarised in table 16.1 of the Inquiry final report are: • Codes of Practice for industry • transfer of environmental decisions regarding petroleum from the Minister for Primary Industry and Resources to the Minister for Environment and Natural Resources • baseline mapping and ongoing monitoring regimes for weeds, methane emissions and water quality near proposed drilling sites • commencement of a broader Strategic Regional Environmental and Baseline Assessment (SREBA). Our goal is to complete this by the end of 2018. STAGE THREE – EXPLORATION AND PREPARING FOR PRODUCTION Stage Three covers the balance of the Inquiry recommendations and will take a number of years to complete. Stage Three must be completed before any production approvals	The Implementation Plan largely addresses recommendation 16.2. <u>Comments</u> • The timeline for implementation, especially with regard to Stage Three, is vague.

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			are granted for unconventional gas. Many of the actions in Stage Three are still in planning and the detailed approach will be published in online updates to this plan. Actions in Stage Three may commence before Stage Two is complete.	
16.3	<i>That a centralised, well-resourced, experienced and skilled Implementation Unit be established immediately within the Department of Chief Minister to coordinate the development of the implementation framework.</i>	The Hydraulic Fracturing Inquiry Implementation Taskforce was established April 2018 in the Department of the Chief Minister and Cabinet.	<i>"The Hydraulic Fracturing Inquiry Implementation Taskforce has been established within the Department of the Chief Minister to coordinate the delivery of the Inquiry recommendations and articulate an approach to implementing each recommendation, mapped in the Implementation Plan.</i> <i>A Steering Committee of government Chief Executives guides the work of the Taskforce and assesses and manages risks to the delivery of this plan."</i> Scientific Inquiry into Hydraulic Fracturing Implementation Plan at 5.	This recommendation has been fully implemented.
16.4	<i>That a Community and Onshore Shale Gas Industry and Business Reference Group be established to provide feedback to Government on the development of an implementation framework, and its subsequent execution, if the Government lifts the moratorium.</i>	The Onshore Shale Gas Community and Business Reference Group has been formed and had its first meeting on 3 July 2018. The Reference Group has had six meetings in total as of March 2020. The Terms of Reference and Communique from meetings can be downloaded here .	<i>"The Onshore Shale Gas Community and Business Reference Group has been established with representatives from the community, environmental groups, local business, the gas industry, land councils and local government. Its role is to provide a forum for government to seek advice and share information on the Implementation Plan to deliver on the recommendations and their subsequent execution."</i> Scientific Inquiry into Hydraulic Fracturing Implementation Plan at 5.	This recommendation has been fully implemented. <u>Comments</u> The Reference Group's term concluded on 31 December 2020. "Engagement and oversight through the final stage of inquiry implementation will continue directly with the Independent Overseer, Dr Ritchie and through existing and newly established working and reference groups."

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10th February 2022

Origin Energy B2 Pty Ltd EMP for EPs 76 and 98 (NT-2050-15-MP-041)

This expert report is provided in response to a brief by Environmental Defenders Office acting on behalf of Lock the Gate in relation to the public consultation phase for the Environment Management Plan submitted by Origin Energy for a Beetaloo sub-basin multi-well drilling, stimulation and well testing program. This comment focuses on aspects of the Environment Management Plan associated with greenhouse gas emissions of the project, and the impacts of these emissions on causing climate changes, with associated impacts on people and the environment.

I provide this comment as an expert in climate change science. I am a Professor of Climate Science at the Australian National University, with more than 20 years of experience in this research field. I graduated with a Bachelor of Science (Advanced; Honours first class with university medal) from the University of Sydney in 2000, majoring in Geology and Marine Science. I was awarded a PhD from the Australian National University in 2004 in climate research carried out at the Research School of Earth Sciences (Australian National University). I have worked as a researcher in this field since this time, at the British Antarctic Survey (2004–2011) and the Australian National University (2011–present). I currently hold the following research leadership roles: Associate Director of Research for the Research School of Earth Sciences; Chief investigator for the ARC Centre of Excellence for Climate Extremes; Deputy Director for the Australian Centre for Excellence in Antarctic Science; and Chair of the Australian Academy of Science National Committee for Antarctic Research. Previously I have served as a Coordinating Lead Author for the Intergovernmental Panel on Climate Change (IPCC; 2016–2019).

Executive Summary

In my expert opinion the Environment Management Plan does not adequately address the impact of the project on causing climate change using the available scientific evidence:

1. It does not recognise or address the scientific evidence that every tonne of carbon dioxide emitted to the atmosphere causes further climate warming (sections 1 and 3).
2. It does not recognise or address the scientific evidence that every fraction of a degree of additional warming worsens the impacts of climate change for people and the environment, both globally and in Australia (sections 2 and 5).
3. It does not recognise or address greenhouse gas emissions in the context of global agreements (to which Australia is a party) to limit warming to 1.5°C or well below 2°C, and scientific evidence for the increasingly small carbon budgets that remain to meet these climate change mitigation commitments. This includes omission of any detail on Australia's share of the remaining carbon budget, and emission reduction pathways compatible with staying within this carbon budget (sections 4 and 6).
4. It does not present evidence for the broader context of climate change impacts that production and use of gas from the Beetaloo sub-basin would cause, and the viability of this activity in the context of scientific evidence for Australia's remaining carbon budget. The omission of this information means that it is not possible for an informed assessment to be made on whether the climate and environmental impacts associated with exploration of the Beetaloo sub-basin should be avoided (sections 4 and 6).

Based on the detailed evidence provided in the following sections of this submission, it is my expert opinion that the climate change contributions, and their associated impacts on people and the environment, of this project are underestimated and/or ignored in this Environmental Management Plan, that the scientific evidence demonstrates that development of shale gas resources from the Beetaloo sub-basin is not viable, and that the climate and environmental impacts of exploration of the Beetaloo sub-basin should therefore also be avoided (Section 7).

Detailed expert evidence

Section 1. The causes and effects of anthropogenic climate change

Human-caused climate change is an established scientific fact. The most recent assessment report of the Intergovernmental Panel on Climate Change (IPCC) of the scientific evidence is that *“It is unequivocal that human influence has warmed the atmosphere, ocean and land”*¹. This summary statement has been approved unanimously by the governments of all 195 member countries of the IPCC as an accurate assessment of the scientific evidence.

Anthropogenic (or human-caused) climate change refers to the ways in which human activities are altering our climate system. Typically, we assess anthropogenic climate change relative to a pre-industrial baseline², most commonly defined as the average climate over the 1850-1900 interval³. Prior to this time climate changes were primarily caused by natural factors (volcanic eruptions, solar fluctuations, and variability internal to the climate system such as the El Niño- Southern Oscillation).

Human activities have caused our climate system to begin changing rapidly since the pre-industrial era (1850-1900). Observed warming since this time is only consistent with human factors, and cannot be reproduced in climate model simulations that include only natural factors^{4,5}.

Figure 1 below illustrates that observed warming (black line on right side panel) is only consistent with human forcing (brown shading on right side panel). This figure is from the IPCC 6th Assessment Report of working group 1 (released in August 2021).

The human-caused factors that are causing climate change include: the release to the atmosphere of aerosols (e.g. sulphur dioxide particles) that have a net cooling effect by blocking solar energy from reaching the Earth’s surface; ozone-depleting substances (e.g. CFCs) that alter

¹ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

² Paris Agreement, Article 2. https://unfccc.int/sites/default/files/english_paris_agreement.pdf

³ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate (2019). Cross-chapter Box 1 in chapter 1. <https://www.ipcc.ch/srocc/chapter/chapter-1-framing-and-context-of-the-report/>

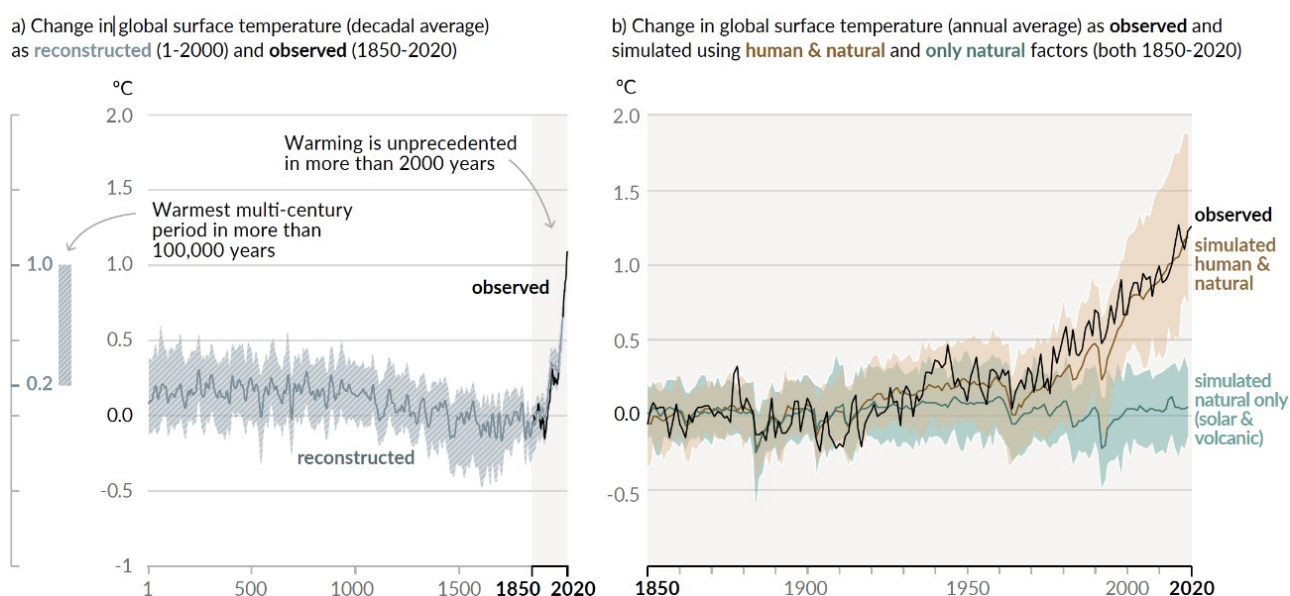
⁴ Gillett et al., 2021, Nature Climate Change. <https://www.nature.com/articles/s41558-020-00965-9.pdf>

⁵ IPCC 5th Assessment Report of Working Group 1. Summary for Policymakers. Section D.3 and Figure SPM.6. <https://www.ipcc.ch/report/ar5/wg1/summary-for-policymakers/>

southern hemisphere atmospheric circulation; and greenhouse gases including carbon dioxide (CO₂) and methane (CH₄) that warm the climate by trapping infrared radiation that would have otherwise been radiated out to space.

Figure 1⁶

Changes in global surface temperature relative to 1850-1900



Assessments of the contributions of these different factors have concluded that human activities are responsible for approximately 100% (i.e. all) of the observed global warming since pre-industrial times. The Earth's climate has warmed by +1.1°C (2010-2019 average) since the pre-industrial (1850-1900). Human activities are responsible for $+1.1 \pm 0.2$ °C of this warming. This is comprised of $+1.5 \pm 0.4$ °C of warming from human-caused increases in atmospheric greenhouse gas concentrations, and -0.4 ± 0.3 °C of cooling from human-caused changes in atmospheric aerosols. There has been a negligible contribution to observed climate warming since the pre-industrial from natural factors⁷.

By far the largest contributor to human-caused increases in atmospheric greenhouse gases is the burning of fossil fuels. Over the past decade (2011-2020), fossil carbon accounted for 89% of CO₂ emissions (34.8 billion tonnes of CO₂ per year). In 2020, the share of CO₂ emissions to these fossil carbon sources was comprised of coal (40%), oil (32%), gas (21%), cement (5%), and flaring and

⁶ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers.

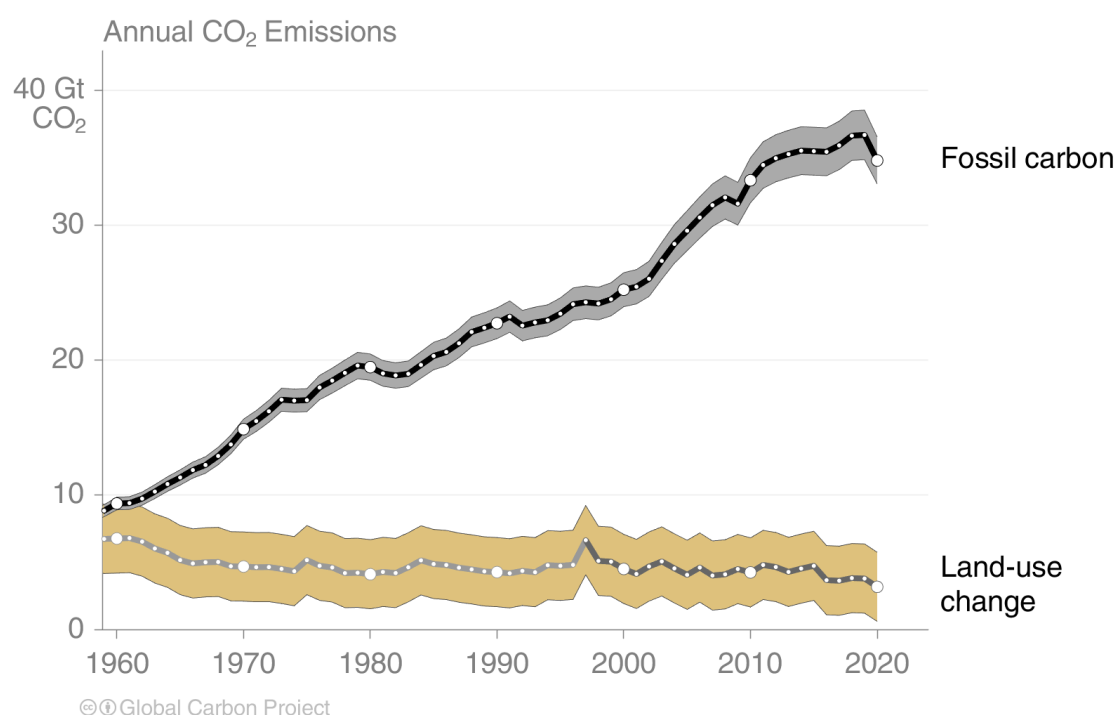
<https://www.ipcc.ch/report/ar6/wg1/#SPM>

⁷ Gillett et al., 2021, Nature Climate Change. <https://www.nature.com/articles/s41558-020-00965-9.pdf>

others (2%). Land use changes (e.g. deforestation, wildfires) accounted for 11% of CO₂ emissions (4.1 billion tonnes of CO₂ per year) over the last decade (2011-2020)^{8,9}.

Annual emissions of CO₂ from land-use change have stayed relatively constant since the 1960s, while annual emissions from fossil carbon have increased strongly since this time, as shown in **Figure 2** below¹⁰:

Figure 2.



The recent ‘Net Zero by 2050’ report from the International Energy Agency (IEA) (**IEA Net Zero Report**) stated: *“The energy sector is the source of around three-quarters of greenhouse gas emissions today and holds the key to averting the worst effects of climate change, perhaps the greatest challenge humankind has faced.”*¹¹

⁸ Friedlingstein, P. et al., (2021), Global Carbon Budget 2021, Earth Syst. Sci. Data, <https://doi.org/10.5194/essd-2021-386>

⁹ Global Carbon Budget 2021, slides 24 and 45.

https://www.globalcarbonproject.org/carbonbudget/21/files/GCP_CarbonBudget_2021.pdf

¹⁰ Global Carbon Budget 2021, slide 43.

https://www.globalcarbonproject.org/carbonbudget/21/files/GCP_CarbonBudget_2021.pdf

¹¹ Net Zero by 2050 A Roadmap for the Global Energy Sector. International Energy Agency, May 2021.

<https://www.iea.org/reports/net-zero-by-2050>

Section 2. Impacts of anthropogenic climate change already being experienced in Australia and the world

Human-caused climate change is already causing damaging impacts for all inhabited parts of the planet¹².

Globally, these impacts include:

- a) more frequent and intense heatwaves over most land areas, with significant risks for human health¹³,
- b) increases in the intensity of heavy rainfall globally with implications for flood risk¹⁴,
- c) increases in the occurrences and intensity of drought, dust storms, desertification and wildfire risk in some regions¹⁵,
- d) loss of snow and ice with impacts on water security in high mountains and downstream areas¹⁶,
- e) warming and destabilisation of permafrost, with potential amplifying effects on climate change through greenhouse gas release¹⁷,
- f) rapid loss of Arctic sea ice, with amplifying effects on climate change through accelerated temperature rise in the Arctic¹⁸,
- g) intensification of wind and rainfall associated with tropical cyclones¹⁹,
- h) oceans becoming hotter, more acidic and losing oxygen with implications for marine ecosystems and fisheries²⁰, and
- i) rising sea levels (from ice sheet and glacier mass loss and expansion of the warming oceans) leading to an increasing frequency of extreme sea level events, and risks for

¹² IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers A.3. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

¹³ IPCC Special Report on Climate Change and Land, 2019. Summary for Policymakers A.2. <https://www.ipcc.ch/srccl/>

¹⁴ IPCC Special Report on Climate Change and Land, 2019. Summary for Policymakers A.2. <https://www.ipcc.ch/srccl/>

¹⁵ IPCC Special Report on Climate Change and Land, 2019. Summary for Policymakers A.2. <https://www.ipcc.ch/srccl/>

¹⁶ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.1, A.4 and A.7. <https://www.ipcc.ch/srocc/>

¹⁷ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.1, A.4, A.7 and A.9. <https://www.ipcc.ch/srocc/>

¹⁸ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.1, A.4 and A.7. <https://www.ipcc.ch/srocc/>

¹⁹ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.3 and A.9. <https://www.ipcc.ch/srocc/>

²⁰ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.2, A.5, A.6 and A.8. <https://www.ipcc.ch/srocc/>

coastal retreat in some places as well as inundation and loss of low-lying coasts and islands²¹.

Within Australia, major climate risks already being experienced include:

- a) a decline in cool season rainfall across southern parts of Australia. In southwest Australia, there has been a 16% loss of April-October rainfall since 1970, and in southeast Australia there has been a 12% loss in April-October rainfall since the late 1970s. This is decreasing streamflow across the majority of southern Australia²²;
- b) increases in the intensity of heavy rainfall events in Australia. The intensity of extreme rainfall events has increased by around 10% in some regions over recent decades, resulting in increased flood risk to communities²³;
- c) rising sea levels that are increasing the risk of inundation and damage to low-lying coastal communities and infrastructure²⁴;
- d) increasing frequency and intensity of extreme heat that is a deadly natural hazard for people and animals. In 2019, there were more than 33 days that exceeded 39°C, more than the total observed number (24) from 1960-2018 combined²⁵. Deadly heat – where surface air temperature and humidity exceed a lethal threshold – is already experienced, and will worsen in the future, particularly in tropical regions including northern Australia²⁶.
- e) longer and more frequent marine heatwaves that are damaging marine ecosystems including coral reefs, kelp forests and sea grasses and damaging coastal fisheries and aquaculture²⁷;
- f) and increases in the length of the fire season and the number of dangerous fire weather days since the 1950s²⁸.

²¹ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.3, A.6 and A.9. <https://www.ipcc.ch/srocc/>

²² State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>

²³ State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>

²⁴ State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>

²⁵ State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>

²⁶ Mora et al (2017), Global risk of deadly heat. *Nature Climate Change*, doi:10.1038/nclimate3322

²⁷ State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>; IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.2, A.5, A.6 and A.8; and Chapter 6 Tasmanian 2015/16 marine heatwave case study <https://www.ipcc.ch/srocc/>

²⁸ State of the Climate 2020, Bureau of Meteorology and CSIRO. <http://www.bom.gov.au/state-of-the-climate/>

All of the global and Australian climate change impacts summarised above will continue to worsen if human-caused climate warming is allowed to continue. Impacts observed so far are the result of 1.1°C of human-caused warming. These trends will continue with further warming, with high greenhouse gas emission futures seeing larger future change than low emission futures²⁹.

Some of the changes in the climate system that have already been set in motion are irreversible, building in long-term commitments for loss and damage. In particular, sea level will continue to rise for centuries to millennia in all future climate scenarios, even those where global temperature is stabilised. The observed acceleration of ice loss from West Antarctica may already represent the onset of an irreversible ice sheet instability³⁰.

The risk of passing other irreversible tipping points also increases as global warming worsens. Tipping points are rapid and sudden changes in parts of the Earth system, that if triggered, will have extreme consequences for climate change impacts. They include loss of Arctic sea ice, coral reef die off, shutdown of Atlantic deep ocean circulation, forest dieback and large-scale increases in fire risks. At current levels of human-caused climate warming there are already indications of changes developing in each of these climate tipping points³¹.

The information set out above means that **every fraction of a degree of additional climate warming increases the damage done to the Earth's system**³², and elevates the risks and costs placed on people (including future generations) and the environment.

²⁹ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers Figures SPM.1., SPM.3 and SPM.4 <https://www.ipcc.ch/srocc/>; IPCC Special Report on Climate Change and Land, 2019. Summary for Policymakers Figure SPM.2 <https://www.ipcc.ch/srccl/>

³⁰ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers A.3, B.3 and Figure SPM.1. <https://www.ipcc.ch/srocc/>

³¹ The risks to Australia of a 3°C warmer world, Australian Academy of Science, March 2021. Section 2.2. <https://www.science.org.au/supporting-science/science-policy-and-analysis/reports-and-publications/risks-australia-three-degrees-c-warmer-world>

³² IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers B.2. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

Section 3. Relationship between greenhouse gas emissions and global warming

There is a near-linear relationship between cumulative anthropogenic CO₂ emissions and the global warming they cause. The physical relationship between atmospheric greenhouse gas levels and global temperature is clear and unambiguous, with agreement across multiple lines of evidence including theoretical understanding, observations, paleoclimate evidence and climate model simulations^{33,34}.

Every additional tonne of greenhouse gas emissions will cause further climate warming³⁵. This is illustrated for historical and future emissions in **Figure 3** below.

Every tonne of CO₂ emissions adds to global warming

Global surface temperature increase since 1850-1900 (°C) as a function of cumulative CO₂ emissions (GtCO₂)

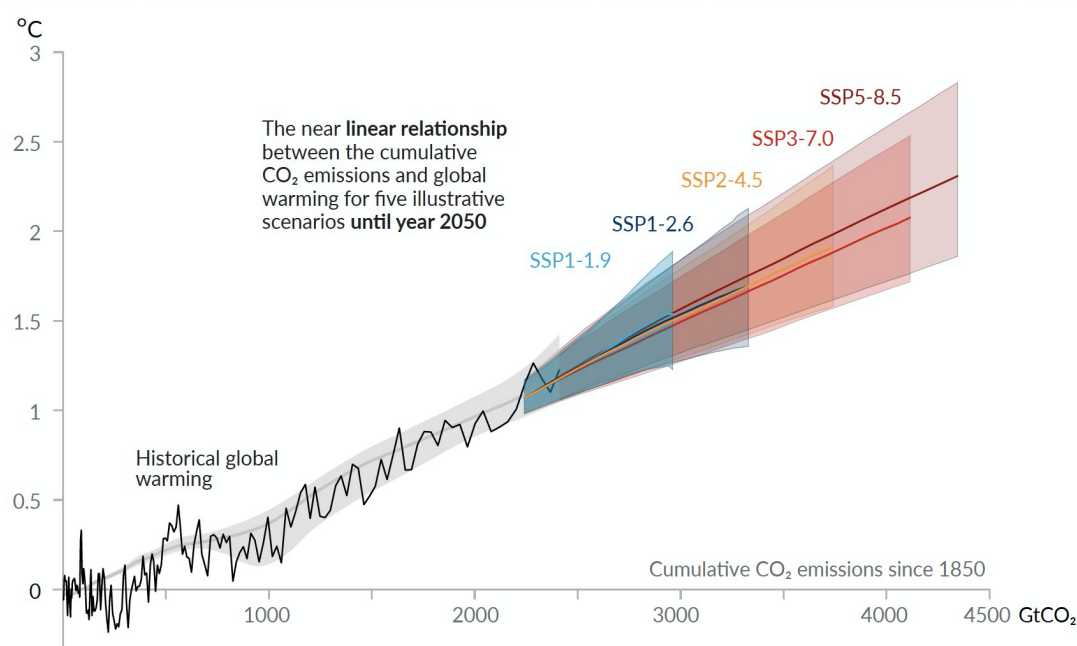


Figure 3 – Near linear relationship between cumulative CO₂ emissions and global temperature rise, shown for historical data and future scenarios out to 2050.

Source: IPCC 6th Assessment Report, Working Group I, Summary for Policymakers

³³ IPCC 5th Assessment Synthesis Report, including SPM 2. <https://www.ipcc.ch/report/ar5/syr/>

³⁴ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers D.1. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

³⁵ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers D.1. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

Limiting human-induced global warming to a specific level requires limiting cumulative CO₂ emissions, reaching at least net zero CO₂ emissions, along with similarly strong reductions in other greenhouse gas emissions³⁶.

³⁶ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers D.1.
<https://www.ipcc.ch/report/ar6/wg1/#SPM>

Section 4. Australian and global targets for limiting global warming, and associated carbon budgets

The *Paris Agreement* includes a commitment to limit warming to well below 2°C above pre-industrial levels and to pursue efforts to limit warming to 1.5°C³⁷. Australia is a signatory to this agreement.

The *Glasgow Climate Pact* in 2021³⁸:

- reaffirmed the global goal to hold the increase in the global average temperature to well below 2 °C above pre-industrial levels and to pursue efforts to limit the temperature increase to 1.5 °C above pre-industrial levels;
- recognised that the impacts of climate change will be much lower at the temperature increase of 1.5 °C compared with 2 °C, and resolved to pursue efforts to limit the temperature increase to 1.5 °C;
- Also recognised that limiting global warming to 1.5 °C requires rapid, deep and sustained reductions in global greenhouse gas emissions, including reducing global carbon dioxide emissions by 45 per cent by 2030 relative to the 2010 level and to net zero around mid-century, as well as deep reductions in other greenhouse gases; and
- Recognised the importance of the best available science for effective climate action and policy making.

There are total (cumulative) amounts of greenhouse gas emissions that cannot be exceeded if global average temperature rise is to be limited to 1.5 or 2.0°C (Section 3, including Figure 3). Keeping warming to “well below” 2°C, as stated in the Paris Agreement and reaffirmed in the Glasgow Climate Pact, implies cumulative emissions between those consistent with limiting warming to 1.5°C or 2°C, and ambition to stay within the remaining carbon budget for limiting warming to 1.5°C.

³⁷ Article 2 of the Paris Agreement. https://unfccc.int/sites/default/files/english_paris_agreement.pdf

³⁸ <https://unfccc.int/documents/310475>

Carbon Budget analysis

This analysis examines first the global carbon budgets remaining for limiting warming in line with the Paris Agreement targets, and then Australia's remaining share of the carbon budget and required emission reductions within these budgets.

Cumulative carbon dioxide emissions from 1850 to 2019 amounted to around 2,390 billion tonnes of CO₂³⁹. Global emissions in 2020 were 38 billion tonnes, which included a slight reduction (compared with emissions of 40.5 billion tonnes each year in 2018 and 2019) in emissions related to restrictions from the COVID-19 pandemic. As such this decline is thought to be temporary^{40,41}.

There is no evidence to suggest that annual greenhouse gas emissions have peaked yet. In 2021, global energy-related CO₂ emissions rebounded to near 2019 emission levels. Total global emissions of CO₂ in 2021 are estimated to be around 40 billion tonnes⁴².

Emission pathways to limit warming to 1.5°C with little or no temperature overshoot require global CO₂ emissions to peak by 2020, decline by about 45% from 2010 levels by 2030, and reach net zero around 2050⁴³. Reductions in CO₂ emissions to net zero need to be matched by deep reductions in emissions of methane (estimated by the IEA at a 75% reduction over the next 10 years)⁴⁴.

Every year of delay in reaching peak CO₂ emissions requires the emission reductions pathway to become steeper (i.e. more difficult to achieve) and brings forward the time when net zero emissions must be reached to limit warming to the targets set out in the Paris Agreement.

In other words, it is the total quantity of emissions that determine the climate outcomes – giving a carbon budget that we must stay within to limit warming to a determined level. Using the

³⁹ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers D.1. <https://www.ipcc.ch/report/ar6/wg1/#SPM>

⁴⁰ Global Carbon Project. (2021). Supplemental data of Global Carbon Budget 2021 (Version 1.0) [Data set]. Global Carbon Project. <https://doi.org/10.18160/gcp-2021>

⁴¹ Le Quere et al 2021, Nature Climate Change. <https://www.nature.com/articles/s41558-021-01001-0>

⁴² Global Carbon Project (2021) Carbon budget and trends 2021. www.globalcarbonproject.org/carbonbudget

⁴³ IPCC Special Report on warming of 1.5°C, 2018. Summary for Policymakers C.1. <https://www.ipcc.ch/sr15/>

⁴⁴ Net Zero by 2050 A Roadmap for the Global Energy Sector. International Energy Agency, May 2021. <https://www.iea.org/reports/net-zero-by-2050>

budget quickly this decade, leaves less budget for further decades (implying a faster and sooner transition to net zero, well before 2050). Spreading out the budget over the time between now and 2050 allows for a planned and manageable energy transition, but can only be accommodated by making substantial year-on-year emission reductions this decade.

The remaining global carbon budget at the end of 2019 for a 50% chance of limiting warming to 1.5°C was assessed to be 500 billion tonnes of CO₂⁴⁵. Global emissions in 2020 and 2021 amount to 38 billion tonnes of CO₂ and 40 billion tonnes of CO₂ respectively, leaving a remaining global CO₂ emissions budget of 422 billion tonnes as of the start of 2022. Without global emission reductions, the current global CO₂ emission rates of approximately 40 billion tonnes per year leaves roughly 10.5 years until the carbon budget for 1.5°C will be fully used.

The remaining global carbon budget at the end of 2019 for a 67% chance (i.e. a 2 in 3 chance) of limiting warming to 2.0°C was assessed to be 1,150 billion tonnes of CO₂⁴⁶. This leaves a total a remaining global CO₂ emissions budget of 1,072 billion tonnes as of the start of 2022. Without global emission reductions, the current global CO₂ emission rates of approximately 40 billion tonnes per year leaves roughly 27 years until the carbon budget for 2°C will be fully used.

Application of carbon budget analysis to Australia

Australia's 'fair share' of the remaining global carbon budgets for limiting warming has been assessed as **0.97%** of the global budget (over the 2013-2050 period)⁴⁷.

The equity factors guiding sharing of the global budget between countries are based upon equality, capability and responsibility. Under different burden-sharing approaches Australia's share could be as high as 1.27% (constant emissions ratio determined) or as low as 0.52% (capability determined)⁴⁸. In my opinion, the use of a 0.97% share for Australia's proportion of

⁴⁵ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers Table SPM.2
<https://www.ipcc.ch/report/ar6/wg1/#SPM>

⁴⁶ IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers Table SPM.2
<https://www.ipcc.ch/report/ar6/wg1/#SPM>

⁴⁷ Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 emission reduction targets. Climate Targets Panel, January 2021. <https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

⁴⁸ Meinshausen et al., Section 2.8 and Table 3.
https://www.climatechange.vic.gov.au/data/assets/pdf_file/0016/421702/Greenhouse-Gas-Emissions-Budgets-for-Victoria.pdf

global emission is reasonable and maintains consistency across previous Australian government and expert reports, including the Garnaut Climate Change Review (2008) and Climate Change Authority, Targets and Progress Review (2014).

To have a 67% chance of not exceeding 2°C of global warming, Australia’s remaining carbon budget from 2021 onwards is now only 6,161 million tonnes CO₂-equivalent. This budget equates to a 2030 emissions target that is 50% below 2005 emission levels, and reaching net zero by 2045⁴⁹.

This 2°C compliant Australian emissions trajectory is shown in **Figure 4** below:

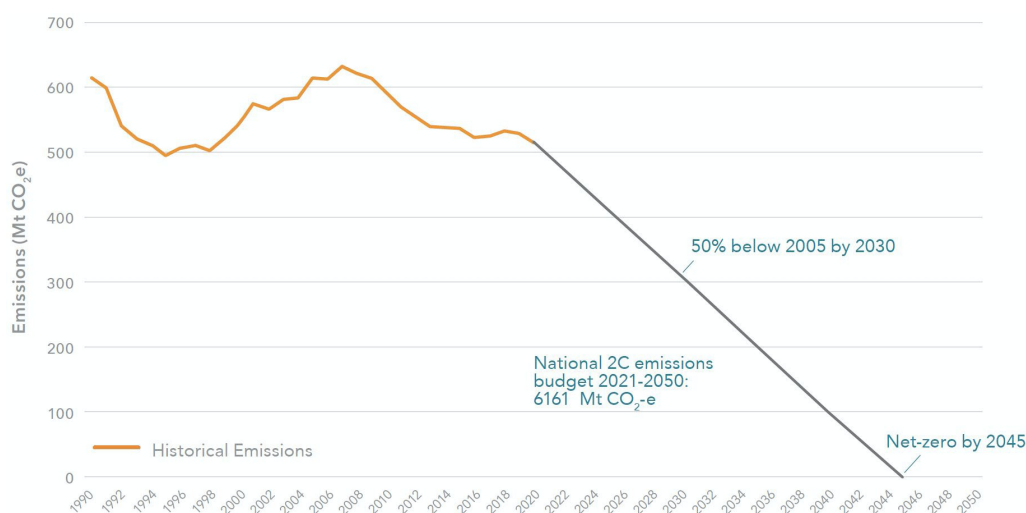


Figure 4 – Australian greenhouse gas emission trajectory compatible with limiting warming to 2°C
Source: Australia’s Paris Agreement Pathways: Updating the Climate Change Authority’s 2014 emission reduction targets. Climate Targets Panel, January 2021.

To have a 50% chance of limiting warming to 1.5°C, Australia’s remaining carbon budget from 2021 onwards is now only 3,521 million tonnes CO₂-equivalent. **This budget equates to a 2030 emissions target that is 74% below 2005 emission levels, and reaching net zero by 2035.**⁵⁰

This 1.5°C compliant Australian emissions trajectory is shown in **Figure 5** below.

⁴⁹ Australia’s Paris Agreement Pathways: Updating the Climate Change Authority’s 2014 emission reduction targets. Climate Targets Panel, January 2021. <https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

⁵⁰ Australia’s Paris Agreement Pathways: Updating the Climate Change Authority’s 2014 emission reduction targets. Climate Targets Panel, January 2021. <https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

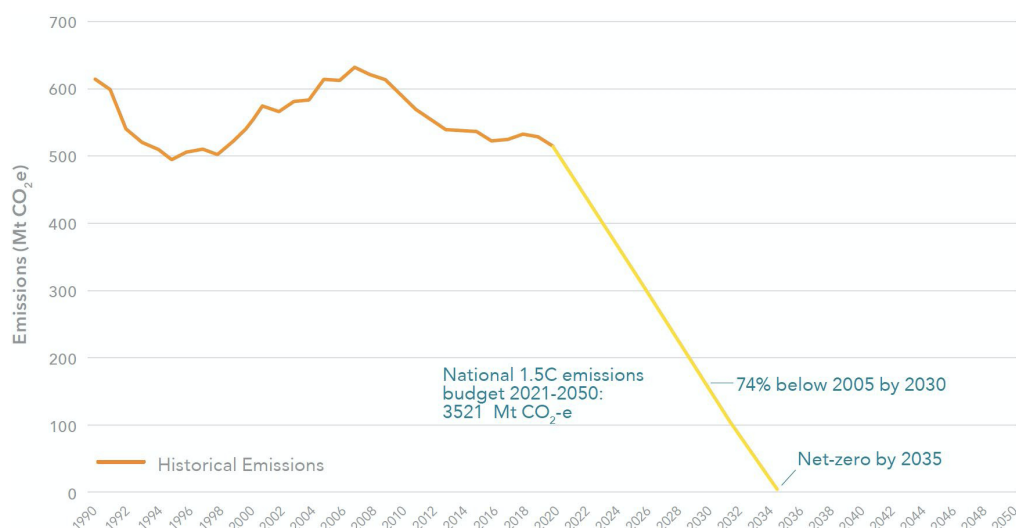


Figure 5 – Australian greenhouse gas emission trajectory compatible with limiting warming to 1.5°C
Source: Australia’s Paris Agreement Pathways: Updating the Climate Change Authority’s 2014 emission reduction targets. Climate Targets Panel, January 2021.

Australia’s Nationally Determined Contribution (NDC) and the carbon budget

Australia’s existing Nationally Determined Contribution (**NDC**) for 2030 is an emissions reductions target of 26-28% on 2005 levels⁵¹.

If this target is achieved, it has been estimated that Australia will emit 4,832 – 4,764 million tonnes of CO₂-equivalent across the decade from 2021-2030 ⁵². **This would have exceeded our total available budget for limiting warming to 1.5°C by 2028** ⁵³ (i.e. before the end of the 2030 NDC period).

If Australia’s current NDC to 2030 is kept, then limiting warming to 2°C would then require net zero emissions to be reached in 2037. This requires an emissions reduction of 12.9% every year from 2030 to 2037 to limit warming to 2°C, which, in my opinion, is unfeasibly steep⁵⁴. This 2°C

⁵¹ Australia’s Nationally Determined Contribution, 2020.
<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Australia%20First/Australia%20NDC%20recommunication%20FINAL.PDF>

⁵² Australia’s Nationally Determined Contribution, 2020.
<https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Australia%20First/Australia%20NDC%20recommunication%20FINAL.PDF>

⁵³ Shifting the Burden: Australia’s emissions reduction tasks over coming decades. Climate Targets Panel, March 2021.
<https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

⁵⁴ Shifting the Burden: Australia’s emissions reduction tasks over coming decades. Climate Targets Panel, March 2021.
<https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

compliant Australian emissions trajectory, if Australia does not increase its 2030 NDC commitment, is shown in **Figure 6** below.

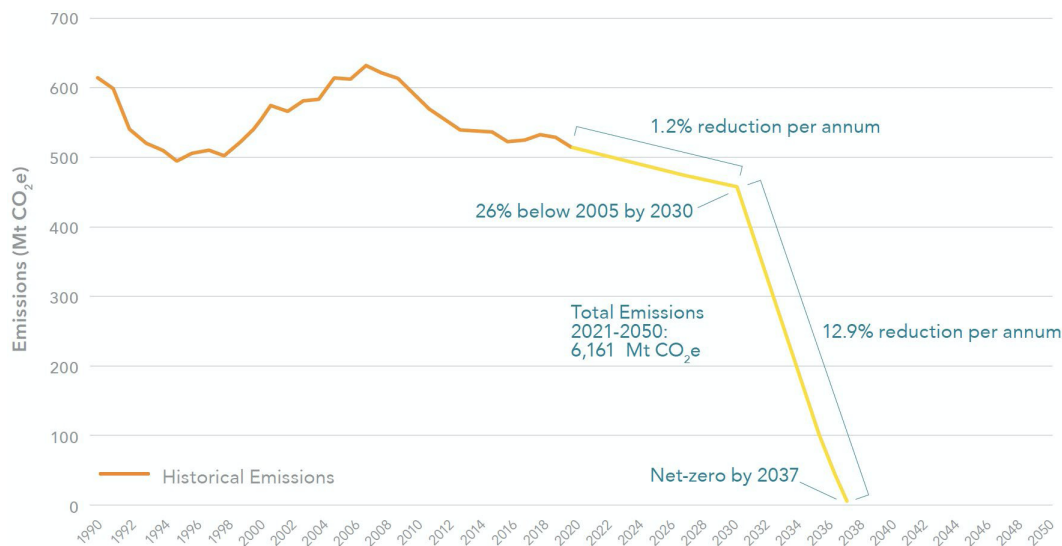


Figure 5 – Australia's greenhouse gas emissions trajectory for limiting warming to 2°C if the current 2030 NDC is maintained.
Source: Shifting the Burden: Australia's emissions reduction tasks over coming decades. Climate Targets Panel, March 2021.

There is no scientific evidence or government modelling to support the NDC target Australia currently holds, nor its plan for net zero emissions by 2050⁵⁵, as being sufficient or compatible with Australia's responsibilities under the Paris Agreement to contribute to global emission reductions that limit global warming to well below 2°C⁵⁶.

Modelling by the International Energy Agency of the energy transition consistent with reaching global net zero emissions by 2050 has determined that fossil fuels are required to fall from 4/5th of the total energy supply in 2021 to around 1/5th by 2050. This net zero pathway requires that **from 2021 there are no new oil or gas fields approved for development**, and no new coal mines or mine extensions⁵⁷.

⁵⁵ <https://www.industry.gov.au/data-and-publications/australias-long-term-emissions-reduction-plan>

⁵⁶ Shifting the Burden: Australia's emissions reduction tasks over coming decades. Climate Targets Panel, March 2021. <https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

⁵⁷ Net Zero by 2050 A Roadmap for the Global Energy Sector. International Energy Agency, May 2021. <https://www.iea.org/reports/net-zero-by-2050>

Australia's current greenhouse gas emissions are also mostly due to the burning of fossil fuels (coal, gas and oil). Australia's emissions from the burning of fossil fuels were 404 million tonnes of CO₂-equivalent in 2019⁵⁸, which was 76% of the total national emissions of 533 million tonnes of CO₂-equivalent for 2019⁵⁹. This implies that emission reductions consistent with Australia's commitments under the Paris Agreement must involve large and rapid reductions in fossil fuel use.

⁵⁸ Global Carbon Project 2020. <https://folk.universitetetioslo.no/roberan/GCB2020.shtml>

⁵⁹ Quarterly Update of Australia's National Greenhouse Gas Inventory: December 2019. <https://www.industry.gov.au/sites/default/files/2020-05/nggi-quarterly-update-dec-2019.pdf>

Section 5. Future impacts of anthropogenic climate change at a national and global level

All impacts of climate change worsen with elevated levels of anthropogenic climate warming. Warming of 2°C will be more dangerous and costly than warming of 1.5°C⁶⁰; warming of 3°C will be more dangerous and costly than warming of 2°C⁶¹.

Current policies for emission reductions globally are estimated to cause around 2.9°C of global warming by 2100⁶².

Where explicit evidence is not available comparing the impacts of warming at 2°C to warming of 3°C, these can instead be estimated by using a comparison of the end-of-century (2018– 2100) impact of the Representative Concentration Pathway RCP2.6 scenario (estimated mean warming of 0.9 to 2.4°C) with the lower end of outcomes from the RCP8.5 scenario (estimate mean warming of 3.2 to 5.4°C)^{63,64}.

Future impacts of climate change consistent with the current trajectory of greenhouse gas emissions (3°C warming or more)

Some specific but not exhaustive examples of the impacts in Australia of a 3°C warmer world (i.e. the warming scenario consistent with the currently committed trajectories of greenhouse gas emissions) include:⁶⁵

- a. **Heatwaves** become more frequent, more intense and last longer as global warming continues, with significant implications for infrastructure and the health of people and ecosystems.

⁶⁰ IPCC Special Report on Warming of 1.5°C, 2018. Summary for Policymakers Section B, FAQ3.1 <https://www.ipcc.ch/sr15/>

⁶¹ The risks to Australia of a 3°C warmer world, Australian Academy of Science, March 2021. <https://www.science.org.au/supporting-science/science-policy-and-analysis/reports-and-publications/risks-australia-three-degrees-c-warmer-world>

⁶² Climate Action Tracker, April 2021. <https://climateactiontracker.org/global/temperatures/>

⁶³ The risks to Australia of a 3°C warmer world, Australian Academy of Science, March 2021. <https://www.science.org.au/supporting-science/science-policy-and-analysis/reports-and-publications/risks-australia-three-degrees-c-warmer-world>

⁶⁴ 76 IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers Table SPM.1. <https://www.ipcc.ch/srocc/>

⁶⁵ The risks to Australia of a 3°C warmer world, Australian Academy of Science, March 2021. Section 6, Table 2 and Table 3. <https://www.science.org.au/supporting-science/science-policy-and-analysis/reports-and-publications/risks-australia-three-degrees-c-warmer-world>

- i. At a warming of 2°C, days above 50°C in Sydney and Melbourne would be rare; but at a warming of 3°C days exceeding 50°C would be a regular occurrence.
- ii. Heatwave impacts for Queensland at different levels of warming have been quantified as follows:
 - 1. Under 1.5°C of global warming, heatwaves would occur three times a year with each event lasting on average 7.5 days.
 - 2. With global warming of 2°C, heatwaves would occur at least four times a year, on average lasting 10 days.
 - 3. At 3°C of global warming, heatwaves would happen as often as seven times a year, with events lasting 16 days on average.
- b. At 3°C of warming there would be 100-300% **more extreme fire days** in southern Australia, compared with a 15-65% increase for 1°C of warming.
- c. Already at 1.1°C of **warming coral reefs** are at high risk, as evidenced by mass bleaching of the Great Barrier Reef (**GBR**) 3-times since 2016. The level of ocean heat that caused GBR bleaching in 2016 will occur every 2 years in 3 when warming reaches 1.5°C, and at 2°C of warming this level of heat will be met or exceeded in 9 years out of 10. At and beyond 2°C of warming, coral reefs globally are expected to have been effectively lost altogether.
- d. Under high emissions (3°C warming or more) winter/spring **season rainfall** over southern Australia is projected to change by -2 to -44% (i.e. rainfall declines) by the end of this century, whereas under low emissions the projected change in winter/spring rainfall is between +4 and -23%.

Differences in outcomes between scenarios consistent with meeting Paris (2°C warming or less) versus scenarios consistent with current trajectories (3°C warming or more)

Globally, there are large differences by the end of this century in the scale of climate change impacts for a low emission future, where warming is limited to 2°C or less (**RCP2.6**), compared with a high emission future with warming of 3°C or more (**RCP8.5**). These include⁶⁶:

- a. 0.42 m of global sea level rise rising at 4 mm each year under RCP2.6 at 2100 compared with 0.84 m and rising at 15 mm each year under RCP8.5 at 2100, relative to 1986–2005 levels.
- b. A 50-times increase in the frequency of marine heatwaves under RCP8.5, compared with a 20-times increase under RCP2.6, by 2081–2100 compared with 1850–1900.
- c. A 24% decrease in near-surface permafrost area under RCP2.6 compared with 69% decrease under RCP8.5 by 2100.
- d. A 74% increase in lethal heat events under RCP8.5 compared with a 48% increase under RCP2.6 by 2100. For example, in the city of Jakarta there are currently around 11 days of deadly heat per year (on average). By 2100 under RCP2.6 this would increase to 117 days, and under RCP8.5 this threshold would be exceeded every day of the year. **Darwin would experience similar changes to those quantified for Jakarta.**⁶⁷

A tipping point in the West Antarctic ice sheet will likely be exceeded if warming exceeds 2°C, leading to a rapid acceleration of sea level rise. Scenarios consistent with 3°C of warming by the end of this century see a rapid increase in ice loss from West Antarctica after 2060 as this tipping point activates⁶⁸.

⁶⁶ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers including Figure SPM.1. <https://www.ipcc.ch/srocc/>

⁶⁷ Mora et al (2017), Global risk of deadly heat. Nature Climate Change, doi:10.1038/nclimate3322

⁶⁸ DeConto et al 2021, Nature. <https://doi.org/10.1038/s41586-021-03427-0>

Higher levels of warming also increase the risk of passing other high-impact tipping points in the climate system. In general, as scientific understanding has developed the risk of passing abrupt and irreversible tipping points has been assessed to lie at lower levels of global temperature rise⁶⁹.

Climate change impacts, particularly at warming levels beyond the Paris Agreement targets, have the potential to push societies and ecosystems beyond the capacity for adaptation⁷⁰.

Adaptation needs and costs will be lower for global warming of 1.5°C compared to 2°C or more of warming⁷¹.

⁶⁹ Lenton et al., 2019, Nature. <https://www.nature.com/articles/d41586-019-03595-0>

⁷⁰ IPCC Special Report on the Ocean and Cryosphere in a Changing Climate, 2019, Summary for Policymakers Section C. <https://www.ipcc.ch/srocc/>

⁷¹ IPCC Special Report on Warming of 1.5°C, 2018. Summary for Policymakers Section B.6 <https://www.ipcc.ch/sr15/>

Section 6. Relationship between GHG emissions from the exploration, extraction and consumption of gas from the Beetaloo sub-basin

Exploration, extraction and consumption of gas from the Beetaloo sub-basin will result in large quantities of greenhouse gas emissions to the atmosphere. The environmental impacts of these emissions need to be considered in the context of the global carbon budget remaining for limiting warming to 1.5°C, in line with global agreements to limit the damage from climate change, and Australia's share of the remaining carbon budget.

The Origin EMP (NT-2050-15-MP-041) estimates that greenhouse gas emissions from exploration will result in up to 142,178 tonnes of CO₂-equivalent at EP98, and up to 130,852 tonnes of CO₂-equivalent at EP76. The emissions from the activities are estimated to total 273,030 tonnes of CO₂-equivalent over a 3-year period (2022-2024). It is stated in the Origin EMP that the annual emissions of the project are small when compared to total annual greenhouse gas emissions, representing up to 0.86% of the total Northern Territory annual greenhouse gas emissions, or up to 0.034% of Australia's total annual emissions, based on 2019 emission levels (sections 3.18 and 18.1 of NT-2050-15-MP-041).

The characterisation in the Origin EMP of greenhouse gas emissions generated through exploration is insufficient in three ways:

- a) It does not recognise or address the scientific evidence that every tonne of greenhouse gas emissions adds to global warming (section 3), and that every increment of additional climate warming increases the damage done to the Earth's climate system (sections 2 and 5), elevating the risks and costs placed on people (including future generations) and the environment⁷².
- b) It does not recognise or address future emissions from the project in a context of year-on-year emission reductions that are needed to limit global warming to 1.5°C, including the scientific data that this would require yearly emission reductions this decade in

⁷² IPCC 6th Assessment Report of Working Group 1 (2021), Summary for Policymakers B.2.
<https://www.ipcc.ch/report/ar6/wg1/#SPM>

Australia that result in a 74% emission reduction by 2030 (section 4)⁷³.

- c) It does not take into account the broader context and climate and environmental impacts of extraction and consumption of gas that exploration of the Beetaloo sub-basin aims to achieve⁷⁴, precluding an assessment of whether the emissions associated with exploration should be avoided as unnecessary emissions.

No details are given in the Origin EMP on the expected greenhouse gas emissions from extraction and consumption of gas from the Beetaloo sub-basin. This is essential information for determining the true environmental impact of exploration of the sub-basin. Statements on future emissions intensity per well, the climate benefits of using natural gas for electricity generation over coal, and the claim of net zero scope 1 and 2 emissions and reduced scope 3 emissions are all unquantified. In some cases these statements rely on assumed large scale use of unproven technologies such as carbon capture and storage (CCS), and the statements also ignore the comparative emission reduction benefits of renewable energy over gas (section 3.18.1 in NT-2050-15-MP-041). In my expert opinion this is a serious omission of detail in the Origin EMP that is required to appropriately assess the environmental impacts of the project.

If the emissions from extraction and consumption of gas from the Beetaloo sub-basin are inconsistent with the scientific evidence for the remaining carbon budget for limiting global temperature rise to 1.5°C (section 4), then the emissions and other environmental damage from exploration should also be avoided. Avoiding all unnecessary emissions is an efficient strategy that needs to be applied as quickly and as often as possible to limit human-induced climate change impacts (i.e. every tonne of CO₂ emissions adds to global warming) and meet national and global climate change mitigation targets.

It has been estimated that production levels from shale gas operations in the Northern Territory of between 365 PJ/y and 1,240 PJ/y are plausible and relevant for the purpose of conducting risk

⁷³ Australia's Paris Agreement Pathways: Updating the Climate Change Authority's 2014 emission reduction targets. Climate Targets Panel, January 2021. <https://www.climatecollege.unimelb.edu.au/australias-paris-agreement-pathways>

⁷⁴ Unlocking the Beetaloo. The Beetaloo Strategic Basin Plan. <https://www.industry.gov.au/data-and-publications/unlocking-the-beetaloo-the-beetaloo-strategic-basin-plan>

assessments⁷⁵. The production levels are equivalent to greenhouse gas emissions in Australia of between 31.6 million tonnes per year and 56.2 million tonnes per year of CO₂-equivalent, respectively⁷⁶. These greenhouse gas emissions need to be considered within the context of Australia's remaining share of the carbon budget. These emission values do not include the use of gas exports overseas (an additional 60.1 million tonnes of CO₂-equivalent per year), which would need to be accounted for within the context of the remaining carbon budget of the country where the gas is used.

Australia's current (2020) annual greenhouse gas emissions are 499 million tonnes of CO₂-equivalent⁷⁷. Extractions of gas from a new Beetaloo sub-basin shale gas field would result in annual emissions that equate to a 6.3% to 11.3% increase on Australia's 2020 greenhouse gas emissions of 499 million tonnes CO₂-equivalent.

The Beetaloo sub-basin strategic plan aims for 20-40 years of production, beginning in 2025⁷⁸. Within the range of production rate (above) and production period estimates, the total emissions in Australia from production and use of gas from the basin could range between 632 million tonnes of CO₂-equivalent between 2025 and 2045, and 2248 million tonnes of CO₂-equivalent between 2025 and 2065.

The remaining Australian carbon budget at the start of 2021 for a 50% chance of limiting warming to 1.5°C was 3,521 million tonnes CO₂-equivalent, applying Australia's fair share of the remaining global budget of 0.97% (section 4). Extraction and Australian consumption of gas from the Beetaloo sub-basin amounts to 17.9% to 63.8% of Australia's total remaining carbon budget (across all sectors) for limiting warming to 1.5°C.

⁷⁵ Scientific Inquiry into hydraulic fracturing in the Northern Territory (2018). Section 9.6. <https://frackinginquiry.nt.gov.au/inquiry-reports/final-report>

⁷⁶ Scientific Inquiry into hydraulic fracturing in the Northern Territory (2018). Table 9.4, based on 20-year Global Warming Potential (GWP), which is relevant for assessments relative to 1.5°C of warming, which would be reached or exceeded on this time scale under current emission trajectories. <https://frackinginquiry.nt.gov.au/inquiry-reports/final-report>

⁷⁷ National Greenhouse Gas Inventory, December 2020. <https://www.industry.gov.au/sites/default/files/2021-05/nggi-quarterly-update-december-2020.pdf>

⁷⁸ Unlocking the Beetaloo. The Beetaloo Strategic Basin Plan. <https://www.industry.gov.au/data-and-publications/unlocking-the-beetaloo-the-beetaloo-strategic-basin-plan>

Section 7. Synopsis

In my expert opinion, exploration, extraction and use of gas from the Beetaloo sub-basin, is inconsistent with Australian and global targets for limiting climate change impacts on people and the environment.

Commitments made under the Paris Agreement require action aimed at limiting warming to 1.5°C. The remaining carbon budget for meeting these obligations is exceedingly small, particularly relative to current annual emission levels. Meeting the targets of the Paris Agreement requires immediate and rapid reductions in greenhouse gas emissions. As 76% (Australian) / 80% (Global) of current emissions are from burning of fossil fuels the emission reductions required to meet the Paris Agreement imply strong and immediate transitions away from fossil fuel use. The exploration and development of new gas fields cannot be accommodated within the remaining carbon budget, as stated explicitly in analysis by the International Energy Agency (section 4).

Annual greenhouse gas emissions from gas extracted from the Beetaloo sub-basin could equate to an 11.3% increase on Australia's 2020 emission levels. This is inconsistent with the progressive year-on-year emission reductions required to reach a 50% reduction (on 2005 levels) by 2030 and net zero by 2045 if global warming is to be limited to 2°C. Emission reductions required to limit warming to 1.5°C require even more ambitious Australian emission reductions (equating to a 74% emission reduction on 2005 levels by 2030).

Total greenhouse gas emissions from the Beetaloo sub-basin could account for between 17% and 63.8% of Australia's remaining carbon budget to limit global warming to 1.5°C. This is unfeasible in the context of Australia's existing emissions base across all sectors, and the need for rapid emission reductions by 2030. Failure to rapidly reduce emissions this decade (i.e. by 2030) also brings forward the time when net zero emissions need to be achieved in order to stay within Australia's remaining carbon budget for limiting global warming to 1.5°C or well below 2°C.

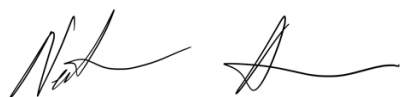
In my opinion the exploration, extraction and use of gas from the Beetaloo sub-basin becomes even less consistent with Australian and global targets for limiting climate change when considering the timeframe for development. **Production of gas from the Beetaloo sub-basin through to 2045 or 2065 cannot be accommodated within emission reduction frameworks consistent with commitments under the Paris Agreement.** Limiting warming to 1.5°C requires

strong emission reductions from 2020 that globally reach a 45% reduction by 2030 and net zero global emissions by 2050. For Australia's share of the remaining carbon budget, net zero emissions need be achieved even earlier – between 2035 to 2045 depending on the emission pathway taken this decade and warming level taken.

Hence, while potential annual emissions from the extraction and use of gas from the Beetaloo sub-basin would equate to an up to 11.3% increase on Australia's 2020 greenhouse gas emissions, this would form a much higher proportion of Australia's allowable emissions by the time gas production from the Beetaloo sub-basin starts and continues, as large emission reductions are required this decade to begin meeting our Paris Agreement commitments. This includes emissions from large-scale combustion of gas from the Beetaloo sub-basin after the time when net zero emissions need to have been achieved, based on the estimated lifetime of production from this gas field.

The scientific evidence clearly demonstrates that the environmental and climate damage caused by production of gas from the Beetaloo sub-basin would exceed that which is allowable under global climate change mitigation agreements which Australia is a party to. In this context, the climate and environmental damage caused by exploration of the Beetaloo sub-basin should also be avoided as unnecessary impacts and unnecessary consumption of Australia's remaining carbon budget.

Signed:

A handwritten signature in black ink, appearing to be 'N Abram', with a stylized flourish at the end.

Professor Nerilie Abram

Professor of Climate Science at the Australian National University

10th February 2022

Expert Report

Origin Energy B2 Pty Ltd EMP for EPs 76 and 98

10 February 2022

Ecologists: Claire deLacey BSc, MEnvLocGovLaw, GradDipBfireProt, CenP (EIANZ Alumni)

Karl Bossard (BSc, GradDipNRM)

Introduction

Please find enclosed the expert report on the impact assessment undertaken by Origin Energy for the proposed Amungee NW and Velkerri well sites in the Northern Territory¹. This report specifically addresses whether, in our opinion, the EMP is likely to facilitate adequate evaluation and management of the environmental risks associated with the relevant petroleum activities.

In reviewing the content, we conclude that the environmental impact assessment is inadequate in a number of respects. These have been discussed in relation to the report findings below.

Origin Energy

The Northern Territory Government's has produced a framework that describes the objectives and content of the Strategic Regional Environmental and Baseline Assessments (SREBA)² for the Beetaloo sub-basin to:

- inform an understanding of the territory's unique environmental values;
- adequately assess the risk profile of any onshore shale gas industry;
- facilitate strategic environmental (water and air) and land-use planning; and
- fully inform issues associated with social impacts, human health, and First Nations people and their culture.³

With specific reference to terrestrial ecosystems, SREBAs have a wide regional application including area-based environmental assessment (e.g. strategic assessment under Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC) or Northern Territory *Environment Protection Act 2019* (EP) Acts) but are also intended to inform project-level environmental impact assessment processes as well as identifying or refining of "no-go zones" (see

¹ Environment Management Plan NT-2050-15-MP-041
https://depws.nt.gov.au/__data/assets/pdf_file/0003/1081641/ORI10-1-Origin-Multi-well-EP98-and-76-EMP.pdf

² Northern Territory Government. 2021. SREBA Framework: A Guide to Undertaking a Strategic Regional Environmental and Baseline Assessment in the Northern Territory.

³ Northern Territory Government, Scientific Inquiry into Hydraulic Fracturing, *Summary of the Final Report*, April 2018, p. 55.

Column 2 - Table 1.1 Key information outputs from each domain of the SREBA, and potential application of this information of the SREBA Framework).⁴

The key outputs of the SREBA process are intended to enable governments, regulators and industry to 'apply robust risk assessment'⁵ processes. With specific reference to terrestrial ecosystems, the key outputs listed in Table 1.1⁶ are:

- Regional ecosystem mapping
- Description of regional assemblages of plants and selected vertebrate and invertebrate groups, and regional biogeographic patterns
- Spatial distribution models for significant species
- Identification and mapping of high conservation value areas
- Evaluation of sensitivity of significant species to onshore gas-related development
- Description of indicators and methods for regional monitoring

The SREBA establishes baseline environmental data to address knowledge gaps and can be used to assess the potential impacts of development activities on the existing environment. A key impetus for taking a regional approach to baseline data collection is that it better positions proponents of development to be able to consider cumulative impacts on key biota, and identify conservation and/or planning outcomes at a larger scale than a project-by-project approach (Northern Territory Government 2021). **However, by design, the SREBA does not replace project-level impact assessment or approval processes.**⁷

The following evaluation has been undertaken in relation to the impact assessment undertaken by Origin Energy for the proposed Amungee NW and Velkerri well sites as they relate to exploration permits (EPs) 98 & 76:

EMP Section	Concerns
4.2 Biological	Much of the content provided under this section has been drawn from earlier impact assessments for both Velkerri ⁸ and Amungee ⁹ (2018 and 2019) and earlier

⁴ Northern Territory Government. 2021. SREBA Framework: A Guide to Undertaking a Strategic Regional Environmental and Baseline Assessment in the Northern Territory.

⁵ Para 2, Section 1.4 (Application) of the SREBA Framework.

⁶ (See Column 1 - Table 1.1 Key information outputs from each domain of the SREBA, and potential application of this information of the SREBA Framework)⁶.

⁷ Simmonds, J.S., Dyer, A.B., Fitzsimons, J., Hinchley, D., Maron, M. (2021) Assessing biodiversity and cultural values for single-site and multi-property development proposals in northern Australia. NESP Threatened Species Recovery Hub Project 7.3 report, Brisbane.

⁸ "The existing biological environment for Velkerri 76 S2 was described in the Beetaloo Basin Velkerri 76 S2 Civil Construction EMP (NT-2050-15-MP-3-1) and the Beetaloo Basin Drilling, Stimulation and Well Testing Program Velkerri 76 S2 EMP (NT-2050-15-MP-032)."

https://depws.nt.gov.au/__data/assets/pdf_file/0008/735317/ep76-s2-origin-velkerri-civilsapproved-emp.pdf

Environment	(approved) impact assessments EMPS (2015 or even potentially earlier).¹⁰ Each rendition appears to contain the same content e.g. <i>“A total of 805 plant species have been recorded within the Beetaloo exploration area, and during the most recent August 2018 survey, 28 dominant flora species were identified. As the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify due to the lack of inflorescence or because they had already died-back...”</i>. Given the recycling of essentially identical material through the EMPs spanning at least 5 years, earlier renditions significantly pre-date the publication of the Geological and Bioregional Assessment (GBA) Region Baseline Survey results. There is no reference to the Regional Ecosystem Mapping undertaken in the baseline survey program¹¹ and how these earlier assessments for Amungee NW and Velkerri might marry with that content. The baseline survey Regional Ecosystem Mapping was undertaken using systematic field sampling methods and it represents a consistent analysis across the entire basin at a relatively high resolution (National Vegetation Information System - Level 5). No justification has been provided in the current EMP as to why the earlier data is used rather than the most recent.
4.2.3 Flora	The EMP states that <i>“A total of 805 plant species have been recorded within the Beetaloo exploration area, and during the most recent August 2018 survey, 28 dominant flora species were identified. As the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify due to the lack of inflorescence or because they had already died-back...”</i>. Appendix K of the EMP shows additional survey reaping 40 species within the exploration scouting areas (areas around the well pads), but fails to describe any systematic approach to the collection of this data. Considering this species list as representative of the area of interest seems highly questionable.
	“The prostrate, herbaceous vine <i>Ipomoea argillicola</i>, is listed as Near Threatened under the Territory Parks and Wildlife Conservation Act 2000 (TPWC Act) and potentially occurs within the project area. The NT flora data base shows that this

⁹ https://depws.nt.gov.au/_data/assets/pdf_file/0008/1029860/approved-emp-1.pdf

¹⁰ https://depws.nt.gov.au/_data/assets/pdf_file/0008/1029860/approved-emp-1.pdf refers to an approval in 2015 as follows “The description of the biological environment of the existing Amungee NW-1 site has been described previously in the Beetaloo sub-Basin, EP98 and 117 Exploration drilling EMP, approved 30/06/2015. A summary of the plan is available at: https://depws.nt.gov.au/_data/assets/pdf_file/0010/258607/Origin-2015-Environmental-Plan-SummaryBeetaloo-Sub-Basin.PDF” (link does not work)

¹¹ Davis, J, Gillespie, G, Cuff, N, Garcia, E, Andersen, A, Young, L, Leiper, I, Ribot, R, Kennard, M, Pintor, A, Bonney, S, and Wedd, D (2021) Beetaloo GBA Region Baseline Survey Program. Research Institute for Environment & Livelihoods, Charles Darwin University, Darwin, Australia

	species has been recorded from the Bullwaddy Conservation Reserve and nearby areas (AECOM, 2015).¹² The absence of <i>Ipomoea argillicola</i> from the list of identified plant species is consistent with the lack of other herbaceous species recorded in the scouting areas as detailed in the species list provided in Appendix K to the EMP. The EMP states that “As the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify due to the lack of inflorescence or because they had already died-back...”. There appears to be no consideration of seasonal effects on the presence of flora species. Given the inappropriate survey time, it seems that there has been no attempt to find this near threatened plant species.
	Appendix 1 to the Beetaloo GBA Region Baseline Survey¹³ provides 37 pages of flora species list for the GBA study area (compiled from the Northern Territory (NT) Flora Atlas and their status under the TPWC Act (TPWC) (LC: least concern, NT: near threatened, DD: data deficient, NE: not evaluated)). No attempt seems to have been made to rationalise habitat availability within the study area for threatened or data deficient species to inform systematic searches.
	Details describing the study design or any other type of systematic flora surveys to refine regional vegetation mapping for the areas of interest have not been provided and it is unclear how much field effort has been afforded to the detection of flora species more generally.
4.2.5 Fauna	Origin reports that more than 200 vertebrate fauna species have some potential to occur across the Beetaloo Sub-basin, including a number of threatened species. However, only 24 species have been identified within the scouting areas as a consequence of incidental fauna surveys undertaken in 2019 and 2021.¹⁴ Incidental fauna surveys are opportunistic and cannot be relied on to be representative or repeatable because they have not been undertaken systematically. The significance of the reported stygofauna¹⁵ at Amungee NWI in the Beetaloo Sub-basin¹⁶ should be given further consideration given that EMP does not recognise this occurrence.

¹² 5.3 Flora of the EMP Appendices

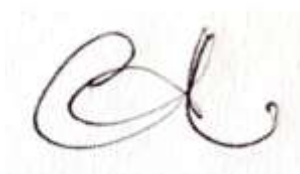
¹³ Appendix 1 to Davis, J, Gillespie, G, Cuff, N, Garcia, E, Andersen, A, Young, L, Leiper, I, Ribot, R, Kennard, M, Pintor, A, Bonney, S, and Wedd, D (2021) Beetaloo GBA Region Baseline Survey Program – Appendix. Research Institute for Environment & Livelihoods, Charles Darwin University, Darwin, Australia

¹⁴ See Appendix K of the EMP

¹⁵ Blind shrimps, translucent snails: the 11 mysterious new species we found in potential fracking sites (2021) <https://blog.csiro.au/discovery-of-mysterious-stygofauna-species/>

¹⁶ Stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory https://gisera.csiro.au/wp-content/uploads/2021/02/20-00341_GISERA_FACTSHEET_SGW-NTStygofauna_WEB_210210.pdf

4.2.6 Significant fauna	The EMP is dismissive of the occurrence of threatened fauna species despite the detailed modelling in the Beetaloo GBA Baseline appendix showing the potential for habitat suitability for a number of threatened species across the region. Whilst the potential for the presence of a number of these species may be marginal, the detailed surveys should have been undertaken for the Gouldian Finch, Crested Shrike Tit and Painted Honey-eater at a minimum. To dismiss the Painted Honey-eater on the basis that it does not breed in Central-Australia ignores the potential for the exploration areas to provide significant food resources, particularly in an arid environment where such resource availability may be highly spatially and temporally variable.
	All threatened fauna species that could possibly occur in this study area have had a wider distribution in the past (i.e. they are in contraction in relation to distribution and/or abundance). The precautionary principle would suggest that any occurrence of these species outside of their current, core distributions are significant and should not be dismissed. Appropriate surveys should be undertaken for all such species. It is not appropriate to fail to survey and then state that they have not detected the species. This is quite contrary to the intention of the SREBA which aims to inform 'robust risk assessment' processes. ¹⁷



Claire Delacey



And Karl Bossard

¹⁷ Para 2, Section 1.4 (Application) of the SREBA Framework.

Independent expert advice: Origin Energy B2 Pty Ltd EMP for EPs 76 and 98

Prepared by Gemma Viney

Date 10/02/2022

The Beetaloo sub-basin multi-well drillings, stimulation and well testing program (the Project) environmental management plan (2022) (EMP) concerns the planning for, and execution of, exploratory drilling in exploration permits (EP) 98 and 76. The EMP outlines some of the requirements of the Petroleum Environmental Regulations (PER)¹ with regards to a number of different activities undertaken for the purpose of this exploration. This report concerns the proponent's compliance with regulations regarding stakeholder engagement. As commissioned by Environmental Defenders Office (EDO), acting on behalf of Lock the Gate, this report will address two questions:

- Has the stakeholder engagement for the EMP for the Project adequately addressed the requirements outlined in Schedule 1 of the PER?
- Does the stakeholder engagement for the EMP for the Project reflect international best practice in stakeholder engagement and/or social impact assessment?

Has the stakeholder engagement for the EMP for the Project adequately addressed the requirements outlined in Schedule 1 of the PER?

An analysis of the EMP, the appendices, and the requirements outlined in the PER has flagged several issues with the compliance of the interest holders, and the degree to which certain requirements have been met or executed.

The first matter of concern is the lack of clarity regarding information provided to stakeholders from the outset and throughout engagement. Origin's EMP identifies two stakeholders, Host Traditional Owners, and Host Pastoralists – determined by Origin to be limited to the owners of the pastoral leases on which EP98 and EP76 are located. Amongst other matters, the PER requires proponents to disclose 'a copy of the information provided to the stakeholders by the interest holder'. These details are set out on page 170 of the EMP, with further information and resources outlined in Appendix N.

¹ The Petroleum (Environment) Regulations referred to throughout this document are in reference to the 2016 regulations, as per the regulations guiding the stakeholder engagement used in Origin's EMP.

The EMP describes two distinct approaches to stakeholder engagement, which is appropriate given the differing contexts, rights and activities of each group. Pastoralist stakeholders have been engaged in an ongoing manner with records of correspondence provided in Appendix N, as well as a copy of the stakeholder engagement pack provided, which details the likely impacts of exploratory drilling. By contrast, while the EMP provides an overview of the engagement with Host Traditional Owners, there is no record of the information provided to this group nor evidence of what was communicated during the in-person meetings and workshops recorded in the stakeholder engagement log.

Of particular note, the stakeholder engagement log (Appendix N) makes record of the initial written communication between Origin and the Northern Land Council on 10/07/2018, summarised as including a description of the proposed activities and summary of key environmental considerations and risk controls. A copy of this information is not provided in the EMP, nor in Appendix N alongside the stakeholder engagement pack prepared for pastoralists. The engagement log also provides details of six on country meetings held with Native Title groups in which overviews of the proposed work were presented, again outlining the environmental risks and controls with storyboards used to communicate key aspects of the project with regards to the environment and its protection. No evidence of what information was given at these meetings, nor records of said storyboards are provided in Appendix N.

As noted, the difference in approach to stakeholder engagement may have been appropriate for the needs and/or convenience of each group. However, given the requirement of the PER to provide a copy of the information provided to stakeholders by the interest holder, this in my opinion fails to meet the obligations of the interest holder in providing evidence of compliant stakeholder engagement with Traditional Owners and/or the Northern Land Council.

Both the EMP and the stakeholder engagement log also fail to demonstrate whether Traditional Owners were engaged outside of the proponent's engagement with the NLC. Page 172 of the EMP states: "Origin has undertaken detailed engagement with the host Traditional Owners through the Northern Land Council", and all mentions of written or face-to-face interactions with Traditional Owners outlined in the stakeholder engagement log in Appendix N make reference to the NLC as either the initiator or arbiter of engagement. This is despite not all Traditional Owners within the affected area being represented by the NLC, and indeed separate Prescribed Bodies Corporate (PBC) have been created to negotiate for some Traditional Owners within the region following a

loss in confidence with consultation and communication between Traditional Owners and the NLC on the subject of gas extraction (Bardon 2020). One such PBC is the Nurrdalinji Native Title Aboriginal Corporation (NNTAC). There is no evidence in either document of any engagement with this, nor any similar, entity. As such, the consultation of Traditional Owner stakeholders should not be considered comprehensive or complete.

Schedule 1 of the PER requires interest holders to provide in an EMP details of written responses received from stakeholders, both in summary and a copy of each response. Stakeholders are also required to provide an assessment of any objections or claims made by a stakeholder; a statement of response from the interest holder; and a record of any changes made in response to concerns or objections raised throughout stakeholder engagement. The Stakeholder Engagement Log summary provided in Appendix N meets some of the requirements outlined above, in summarising contact made with stakeholders and the responses, if any, of the proponent. It also, however, provides evidence of several instances of written engagement with both pastoral and Traditional Owner stakeholders and their representatives, including correspondence raising queries regarding the stakeholder engagement pack and insufficiencies in the risks outlined therein. Examples include:

- 10/07/2018 - Record of written correspondence from Origin to the Northern Land Council with regards to the original request to obtain site clearances and detailing the proposed activities.
- 16/11/2019 - Written engagement from TO/NLC stakeholder to Origin regarding clearances, conditions of work and identified restricted areas.
- 29/10/2021 – Email from Origin to NLC providing annual work program update and providing information on Origin’s forward exploration program.
- 09/11/2021 – Email from pastoral stakeholder to Origin regarding queries associated with the provided stakeholder engagement pack.
 - o Response from interest holder recorded in Stakeholder Engagement log under this entry – ‘no details of queries raised or responses given provided beyond the recorded changes the interest holder has made as a result of this engagement’.

The stakeholder engagement log as it stands provides an elementary summary of the information given to stakeholders and the responses received and indicates where changes were made in light of engagement without detailing the queries which prompted said change. While there are some

instances in which it would not be appropriate to the knowledge holder for the full written exchange to be included within the EMP, the failure to include copies of any written responses from stakeholders does not meet the requirements of the PER. Furthermore, without including details regarding the queries, questions or concerns raised by stakeholders either in person or via written correspondence one cannot properly evaluate the mitigation strategies implemented by the Origin in response to stakeholder engagement.

Does the stakeholder engagement for the EMP for the Project reflect international best practice in stakeholder engagement and/or social impact assessment?

In addition to the concerns with the proponent's compliance with regulations set out in Schedule 1 of the PER, a close analysis of the EMP also indicates several issues with regards to best practice standards for stakeholder engagement and social impact assessment. The first concern is with the definition of stakeholder implemented and upheld by the proponent. Origin cites the definition set out in the PER, being:

- a) a person or body whose rights or activities may be directly affected by the environmental impacts or environmental risks of the regulated activity proposed to be carried out; or
- b) an agent or representative of a person or body mentioned in paragraph (a).

Using this definition, the proponent has determined the full extent of stakeholders relevant to these exploratory operations to be Native Title holders and/or claimants represented by the Northern Land Council, and Host Pastoralists recognised in this EMP as solely the pastoral lease holders of the Amungee Mungee Station.

There are several best practice issues to be raised with regards to the limitation of stakeholders in this manner, the first of which is the lack of engagement and consultation with those who are likely to be affected by the cumulative impacts of exploratory drilling and the expansion of Origin and other mining operations within the region. The EMP limits its scope for engagement to those who will be 'directly' impacted by operations associated with this project. This is despite an acknowledgement of the relevance of cumulative impacts in possible social impacts on the region with regards to issues such as traffic, noise, dust and air quality, visual amenities and impacts to local business and community. Best practice stakeholder engagement should acknowledge the aggregate links between environmental, social and economic changes within a region (Vanclay

2003). This requires a consideration for cumulative impacts to construct a holistic understanding of how communities and regions are likely to shift in response to expanding mining operations.

The Beetaloo Sub-Basin region currently has four EMP's under assessment, in addition to projects which have been approved and not yet initiated. Each of these will create increased social and environmental stressors on the region contributing to a cumulative picture of how life and livelihood within the region will be impacted by mining exploration. A full and complete engagement and consultation process for the project should recognise these cumulative impacts and expand the definition of stakeholder to those whose way of life may be altered by the continued expansion of well drilling and exploration within the region.

Instead, page 171 of the EMP makes reference to broader community engagement but fails to specify the nature of consultation with, nor any input from, non-stakeholder impacted groups.

“Origin also recognises and engages, where appropriate with a number of other interested parties that are not classified as directly affected under the Petroleum (Environment) Regulations.” (EMP 2022, p. 171).

This demonstrates an acknowledgement for the likelihood of broader reaching impacts than those considered ‘directly impacted’ by the project. However, the lack of clarity as to what those impacts are, or details regarding this consultation, renders an evaluation of mitigation strategies unreliable. Page 169 of the EMP asserts that ‘the potential social and economic effects associated with the proposed exploration activities are considered to be minor and predominantly positive’. No evidence for this claim, nor meaningful engagement with broader reaching social benefits or harms is demonstrated throughout.

Pages 176 and 177 of the EMP refer to engagement with Northern Territory businesses regarding supply and support services/opportunities. This, however, fails to account for the possible negative impacts that can result from an influx of Fly-in, Fly-out (FIFO) worker into remote and regional communities. Origin’s EMP describes the construction of work camps intended to support and house an incoming workforce. The impacts of this are addressed solely with regards to the implications for pastoral lease holders, despite evidence that FIFO workforces are likely to negatively affect both the local community, and the workers themselves. The House of Representatives Standing Committee on the use of FIFO workforce practices noted

‘FIFO practices change community demographics, typically injecting a large number of young men living in temporary accommodation and with no community connection and little to do when off shift.’ (House of Representatives, 2013, p49)

Situating this within the likely cumulative impacts of expanding drilling and exploration within the region should raise concern for the social impacts of an incoming, predominantly male, workforce on a small rural population (Lozeva and Marinova 2010; Shandro et al 2011).

Best practice social impact assessment and comprehensive stakeholder engagement should require an acknowledgement and attending of these cumulative social impacts with regards to who is being consulted throughout the engagement process and how regional impacts are being considered.

Lastly, there are elements of best-practice social impact assessment, with respect to engagement with First Nations communities, that are not adequately met by the proponent’s EMP. The stakeholder engagement log provides evidence of the interest holders interactions with Traditional Owners over the course of the consultation process. As noted, these interactions appear to be wholly managed by the NLC, which in itself demonstrates a lack of comprehensive consultation given the creation of separate PCBs largely intended to garner greater negotiating powers of Traditional Owners in gas disputes (Bardon 2020; Kars 2020). It should also be noted however that these interactions, even with the NLC appear, to slow significantly throughout 2020. Indeed in 2021, there are only two recorded points of communication with the NLC. Only one of these recorded engagements involved an ‘in person’ meeting² and both appeared centred around expanded exploration operations. Best practice SIA scholarship emphasises the importance of continued meaningful engagement and consultation with communities throughout every stage of the SIA process (O’Faircheallaigh 1999). This is not evident within Origin’s stakeholder engagement log.

Social impact assessments should also make explicit the consideration of distributional equity when evaluating the overall impacts of a project. This requires, at the most basic level, recognition that no one stakeholder, group or community is being subjected to a higher rate of negative

² Given the restrictions regarding face-to-face gatherings throughout the Covid-19 pandemic ‘in person’ is here used to refer to meetings either virtual, via phone conferencing or in person that allow direct communication between Tradition Owners and the proponent.

impacts as a result of the development. Furthermore, an evaluation of the overall distribution of positive and negative impacts should recognise that stakeholders are not starting from a place of socio-economic equilibrium.

A proposed development will not be judged favourably on the basis that its economic and social benefits are expected to exceed its costs, if it leaves underlying economic and social conditions unchanged and if corporate proponents and government regulators show no awareness of the need to address these conditions in fundamental ways. (O'Faircheallaigh 2011)

Hence, the distribution of positive impacts should consider who within the region is the most vulnerable, and how the proponent intends to alleviate said disparity, in addition to ensuring the impacts are overall positive. Origin's EMP claims maximise social benefits (page 18); however, there is no discussion of how these benefits will be distributed nor whether they will address existing regional inequality. Furthermore, given the absence of explicit community benefits outside of references to opportunities for Northern Territory businesses, I would argue this claim of maximising social benefits from the outset is unfounded.

Additionally, time frames, and time constraints are often a significant hindrance in the participation, and meaningful consultation, of First Nations communities in proponent-driven social impact assessments (SIAs) (O'Faircheallaigh 1999). According to best practice, consultation is required at every stage of the SIA's development, and this is particularly significant when working with Aboriginal communities. Origin's EMP sets out ongoing stakeholder and community engagement activities, however, these are largely centred around the provision of information, rather than continuing a dialogue with stakeholders to ensure continued recognition and consent. Social-impact scholarship clearly outlines the necessity for ongoing, open consultation with communities in order to meet best practice (Chen, Vanclay and Van Dijk 2020). Best-practice stakeholder engagement with Traditional Owners should include opportunities for continued consultation, as is outlined in the ongoing engagement activities with pastoral stakeholders.



Gemma Viney
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University of Sydney

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Moran, Bill – Wednesday, 09 February 2022 – 07:15:07

Subject	Objection to Origin EMP for EP 98 & 76
From	Bill Moran
Sent	2/9/2022 7:15:07 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Furthermore, the global economy is rapidly shifting away from fossil fuels. If Australia is to sustain economic and environmental stability, the warnings provided by the IPCC report released last year should be taken as seriously here as they have been globally.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bill Moran
North Melbourne, Victoria, 3051, Australia

This email was sent by Bill Moran via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Bill provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Bill Moran at *****.

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Morphett, Matt – Thursday, 10 February 2022 – 20:08:47

Subject	Objection to Origin EMP for EP 98 & 76
From	Matt Morphett
Sent	2/10/2022 8:08:47 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Matt Morphett via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Matt provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Matt Morphett at *****.

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Morrissey, Julie – Wednesday, 09 February 2022 – 09:03:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Julie Morrissey
Sent	2/9/2022 9:03:35 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Julie Morrissey via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Julie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Julie Morrissey at *****.

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Mosley, Bret – Thursday, 10 February 2022 – 21:28:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Bret Mosley
Sent	2/10/2022 9:28:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bret Mosley
Armadale, Victoria, 3143, Australia

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Please reply to Bret Mosley at *****.

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Nagy, Alice – Thursday, 03 February 2022 – 20:51:55

Subject	Objection to Origin EMP for EP 98 & 76
From	Alice Nagy
Sent	2/3/2022 8:51:55 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Alice Nagy

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Please reply to Alice Nagy at *****.

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Nayak, Vivek – Wednesday, 09 February 2022 – 06:58:12

Subject	Objection to Origin EMP for EP 98 & 76
From	Vivek Nayak
Sent	2/9/2022 6:58:12 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Vivek Nayak
Glen Waverley, Victoria, 3150, Australia

This email was sent by Vivek Nayak via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Vivek provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Vivek Nayak at *****.

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Neil, Marie – Thursday, 10 February 2022 – 01:16:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Marie Neil
Sent	2/10/2022 1:16:43 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Marie Neil

This email was sent by Marie Neil via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Marie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Marie Neil at *****.

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Nelson, Donna – Monday, 07 February 2022 – 12:00:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Donna Nelson
Sent	2/7/2022 12:00:22 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Donna Leah Nelson Nelson

This email was sent by Donna Nelson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Donna provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Donna Nelson at *****.

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Neuhaus, Peter – Thursday, 03 February 2022 – 14:27:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Peter Neuhaus
Sent	2/3/2022 2:27:40 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Peter Neuhaus
Pallarenda, Queensland, 4810, Australia

This email was sent by Peter Neuhaus via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Peter provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Peter Neuhaus at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Nurrdalinji, Chair – Thursday, 10 February 2022 – 14:38:12

Subject	TRM: Comment on Origin Energy Ltd EMP ORI10-1: EPs 98 and 76
From	Chair Nurrdalinji
Sent	2/10/2022 2:38:12 PM

Please find attached Comment on behalf of Nurrdaliinji Native Title Aboriginal Corporation.

Johnny Wilson
Chairperson
NNTAC

Attached Documents



Nurrdalinji Native Title Aboriginal Corporation

ABN: 32 608 508 769

ICN: 9392

10 February 2022

The Proper Officer,
Petroleum Operations Unit
PO Box 3675
Darwin NT 0801

By email: origin.ep98&76@nt.gov.au

Dear Colleague,

Comment on Origin Energy Ltd EMP ORI10-1: EPs 98 and 76

Nurrdalinji Native Title Aboriginal Corporation (Nurrdalinji) is established by native title holders of the Beetaloo Sub-basin/ Barkly regions, Northern Territory. Nurrdalinji was registered with the Office of the Registrar of Indigenous Corporations on 9 October 2020.

Our name “Nurrdalinji” is an Alawa language word meaning “mixed tribe”, which reflects the fact that our membership is drawn from a wide area and several different language groups. Our membership is comprised of native title holders from 11 native title determination areas throughout the Beetaloo Sub-basin/Barkly regions. Our members include native title holders and people with traditional interests directly affected by Exploration Permits 76 and 98, held by Origin Energy Ltd.

Members of Nurrdalinji are aware of gas exploration in our region, but are deeply concerned about the lack of adequate information, advice and representation that we have been receiving about fracking and all matters which affect our country.

We provide our comments relating to this EMP in support of our members who are native title holders affected by Origin Energy’s Exploration Permits 76 and 98. Our aim is to provide a voice (not legal representation) to our members with native title interests.

Lack of Consultation and Informed Consent

Our members who hold native title interests in the area of EPs 76 and 98 have had inadequate engagement with the Northern Land Council (NLC) and Origin Energy. As a result, there is widespread confusion amongst affected native title holders about what Origin Energy is proposing to do and what risks are involved.

Some Native title holders first gave consent to the gas exploration in the early to mid 2000’s. Some of those native title holders are no longer living. Many feel they did not receive all of the information necessary to understand the impacts of fracking. There wasn’t adequate science even available at the time to understand the breadth of potential impacts fracking could cause. We regularly heard old people comment that through the drilling would be a hole the size of a billy can and only one or two wells. We are now hearing there may be hundreds.

At page 172 of the EMP, Origin Energy appears to suggest that it last consulted directly with

affected native title holders in September 2020. However Origin's stakeholder engagement log at Appendix N (from p.665/791) records Origin's last face to face meeting with affected native title holders occurring in the week of 3-10 October 2019! Origin clearly has not consulted with affected native title holders about this EMP.

The NLC is a representative of the native title holders and should only be assisting with facilitation between Origin Energy and these native title holders. We have not delegated all of our rights to NLC. We demand to be consulted, and to be consulted properly.

Our traditional laws and customs dictate who has Cultural Authority to speak for particular areas within our Country. A number of senior members with Cultural Authority, who are native title holders in areas affected by the EMP, have not been consulted or involved with any of the engagement processes adopted by NLC and Origin Energy.

Our members with native title interests should have been a part of the consultation process. Our members are not given appropriate recognition or respect of the kind we are entitled to as native title holders.

We are not consulted, and our voices are not heard or listened to. This is shameful considering the impact fracking will have on our Country. We do not believe that the NLC and Origin are genuinely interested in whether or not the free, prior and informed consent is obtained from native title holders. This is just a process game to them.

Further, we do not believe Origin's reliance on discussions with the NLC is sufficient to fulfill their duty to consult with native title holders affected by their proposed works and this EMP. We urgently request that the NT Government reject the EMP until full and proper consultation has actually occurred.

We are deeply concerned about the potential risks that fracking may cause to our country, waterways and animals. We need to know what is happening on Country. We need to hear it directly from Origin, instead of somebody from the second or third mob telling us.

Failure to Implement Pepper Review Recommendations

The Pepper Inquiry into Fracking found that the danger fracking poses to water resources, community health and the environment could *only* be reduced to an acceptable level if *all* of its recommendations were fully implemented. These recommendations included a comprehensive Strategic Regional Environmental and Baseline Assessment (SREBA) into environmental and social values in the Beetaloo. The SREBA, along with most of the other Pepper Inquiry recommendations, is far from completed. Without the baseline understanding of how essential water resources are connected and could be impacted by fracking, Origin cannot truthfully claim that it can successfully mitigate risks to those water resources.

The completion of the SREBA should be a precondition to the continuance of any current or proposed works conducted within the Beetaloo Sub-basin. We urge the NT Government to cease gas exploration to allow time for the SREBA to be completed. Without a comprehensive and completed SREBA, it is impossible to understand and adequately protect against the serious dangers of fracking, especially risks to water.

Water use is not properly regulated

Origin says it will use tens of thousands of litres of chemicals in its fracking program and to use hundreds of millions of litres of freshwater from its onsite bores. Water is life and we are

extremely concerned about the risks of contamination. We are concerned NT's water laws do not adequately regulate how Origin will use water.

Aquifers in the areas Origin wants to frack, feed into underground water resources that are relied upon by our communities and the land and animals that live in the area.

We are not convinced that the NT Government can safely allow Origin and all the other fracking companies now working in the Basin to take the enormous amounts of water they want without impacting us and others who share this water.

It would be wrong to allow Origin to frack the Beetaloo unless we can be sure that our water is properly safeguarded.

We are also worried about pollution from wastewater ponds overflowing into sensitive streams, rivers and creating unsafe drinking water. This year Origin has done fracking drilling right up until the start of the wet. They're storing wastewater, with all its dangerous chemicals, in temporary ponds and we know big rains, which are becoming more common with climate change, can see them overflow.

The Northern Territory Fracking Inquiry identified the real possibility of overtopping of storage ponds during the wet season. There's no evidence that since its 2018 report that gas companies have made wastewater storage safer, even as climate change creates more extreme weather events.

Cumulative Impacts

Origin is required by law to assess the cumulative impacts of its plans. Origin only includes its own existing exploration wells as the basis for its cumulative impact assessment. It does not look to what plans it has to build its project in future and the combined impact of other gas companies' production plans in the Beetaloo, for example the impacts on precious water resources. We know that Origin has plans to drill hundreds and hundreds of gas wells. Why does Origin not assess the cumulative risks to Country, water, communities of such development? Because Origin does not do this, the company is not speaking truthfully about the real risks to the animals, our water and land.

Origin also fails in this EMP to truthfully account for the cumulative climate risks of its project and other fracking companies in the Beetaloo. We know that climate change is already making it hotter and harder for us to live on Country.

Authority Certificates

Our culture and sacred sites are our lifeblood. We cannot risk their damage and destruction through fracking. It is concerning to us that many authority certificates are being obtained, and we are unclear about how those sites are being monitored and protected.

We must keep our law, culture and story alive. How can we do that when companies such as Origin risk damage or destruction to our heritage?

Origin's assessment of the dangers posed to groundwater-dependent ecosystems and threatened species is inadequate and unacceptable.

We are concerned for our land and waters, and for our people and all creatures who live here. Origin provides very little evidence to back its conclusion that 20 threatened species found in its fracking sites will not be further damaged by its fracking plans. We worry for the animals which

live on Country which are already suffering from development and do not have confidence that fracking will not harm, push them out or poison them.

Conclusion

We are deeply worried that the EMP is signed off without the input of native title holders and people with cultural authority for the area. We believe there needs to be a proper process looking at all of the possible risks and impacts together, right across our country.

Our people have deep connections across the region. We don't want to see this one-by-one consideration of new wells, new fracking, and more impacts on Country. Our clans and families talk to one another and are becoming more and more worried that this fracking is occurring right across the area. If the water is impacted in one part of our country it ultimately impacts on the story and song further away.

The NLC acts not as our representative but as an authority over us, telling us what to do.

For the reasons mentioned in this letter among others, Origin's EMP does not satisfy the criteria for approval set out in the Petroleum (Environment) Regulations 2016.

We request that the Minister refuse to consider the EMP until the action is referred to the NT EPA for assessment as to whether an Environmental Impact Assessment is required under the Environment Protection Act 2019.

We look forward to talking further with you about our concerns.

A handwritten signature in black ink, appearing to be 'Johnny Wilson', with a horizontal line extending to the right.

Yours sincerely,

Johnny Wilson
Nurrdalinji Chairperson

O'Brien, Pat – Wednesday, 02 February 2022 – 08:00:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Pat O'Brien
Sent	2/2/2022 8:00:19 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Pat O'Brien via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Pat provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Pat O'Brien at *****.

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O'brien, Mary – Thursday, 03 February 2022 – 14:52:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Mary O'brien
Sent	2/3/2022 2:52:19 PM

This is not the first time I have expressed concern about risks to the NT environment posed by the fracking industry. I am writing this time to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Mary O'Brien
Darwin DC, Northern Territory, 0820, Australia

This email was sent by Mary O'Brien via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mary provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mary O'Brien at *****.

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Ochsner, Karin – Thursday, 03 February 2022 – 18:18:02

Subject	Objection to Origin EMP for EP 98 & 76
From	Karin Ochsner
Sent	2/3/2022 6:18:02 PM

To whom it may concern

This email is to show that I object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

I have worked as an outdoor educator taking young Northern Territory residents out on extended hike expedition and know how valuable and fragile the nature is in that area!

I have worked with aboriginal young adults and could feel and start to understand their connection to country!

It is of real importance to reject the Environmental Management Plan because of the risks it poses.

Not enough research and time has been put into assessing the high risk consequences such mining has on this specific area. I urge you to do a more thorough assessment to understand the risk this plan is taking in destroying such a valuable area!

Please accept this submission and refuse the grant of this EMP.

All the best
Karin Ochsner
Broken head , New South Wales, 2481, Australia

This email was sent by Karin Ochsner via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Karin provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Karin Ochsner at *****.

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Odling-Smee, David – Thursday, 03 February 2022 – 15:27:23

Subject	Objection to Origin EMP for EP 98 & 76
From	David Odling-Smee
Sent	2/3/2022 3:27:23 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
David Odling-Smee

This email was sent by David Odling-Smee via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however David provided an email address (*****) which we included in the REPLY-TO field.

Please reply to David Odling-Smee at *****.

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O'donnell, Deanne – Thursday, 03 February 2022 – 23:45:21

Subject	Objection to Origin EMP for EP 98 & 76
From	Deanne O'donnell
Sent	2/3/2022 11:45:21 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Deanne O'Donnell

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Please reply to Deanne O'Donnell at *****.

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Ohlin, Allan – Friday, 04 February 2022 – 11:03:18

Subject	Objection to Origin EMP for EP 98 & 76
From	Allan Ohlin
Sent	2/4/2022 11:03:18 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Allan Ohlin
Girgarre, Victoria, 3624, Australia

This email was sent by Allan Ohlin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Allan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Allan Ohlin at *****.

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O'loughlin, Nick – Wednesday, 02 February 2022 – 20:08:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Nick O'loughlin
Sent	2/2/2022 8:08:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater (counter to the recommendations of the Pepper Inquiry)
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Nick O'Loughlin via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Nick provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Nick O'Loughlin at *****.

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Oneill, Lou – Thursday, 10 February 2022 – 09:25:18

Subject	Objection to Origin EMP for EP 98 & 76
From	Lou Oneill
Sent	2/10/2022 9:25:18 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Lou Oneill

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Please reply to Lou Oneill at *****.

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O'reilly, Rachel – Friday, 04 February 2022 – 11:48:16

Subject	Strong Objection to Origin EMPs (98 & 76)
From	Rachel O'reilly
Sent	2/4/2022 11:48:16 AM

I am a Phd scholar at Goldsmiths Centre for Research Architecture and former resident of Gladstone, the harbour ecology of which was unambiguously destroyed by the installation of the unconventional gas industry in Queensland. The piecemeal fragmentation of environmental regulation constituted by these new EMP processes may appear different to the lack of regulation in Queensland for the unconventional gas industry. However, it is quite clear to citizens in both states participating in different regulation processes that 'transparent' processes of civic input as I am submitting now only appear to appease a call for regulation while the industry proceeds apace, against the international science on new gas and fossil fuel developments. NT gas developments are extinction oriented and will shrink other opportunities for long term, sustainable, non-ruinous economic development in the NT. This has been proven everywhere the industry has been installed in the US and Australia. My administ

rative 'participation' in submissions processes do not make me imagine I am participating in anything resembling a democratic process. Nethertheless:

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Origin does not have a social licence to operate here or anywhere else in the NT - not from Indigenous communities in these areas who have been very vocal about their concerns (not least as part of the NT fracking Inquiry), nor from non-Indigenous voters in the NT or federally.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rachel O'Reilly
Yeronga, Queensland, 4104, Australia

This email was sent by Rachel O'Reilly via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rachel provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rachel O'Reilly at *****.

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Papa, Rebecca – Wednesday, 09 February 2022 – 16:46:37

Subject	Objection to Origin EMP for EP 98 & 76
From	Rebecca Papa
Sent	2/9/2022 4:46:37 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rebecca Papa

This email was sent by Rebecca Papa via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rebecca provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rebecca Papa at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Parker, Daniel – Tuesday, 08 February 2022 – 20:23:10

Subject	Objection to Origin EMP for EP 98 & 76
From	Daniel Parker
Sent	2/8/2022 8:23:10 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Daniel Parker
Coolangatta, Queensland, 4225, Australia

This email was sent by Daniel Parker via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Daniel provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Daniel Parker at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Parker, Jeff – Thursday, 10 February 2022 – 20:03:51

Subject	Objection to Origin EMP for EP 98 & 76
From	Jeff Parker
Sent	2/10/2022 8:03:51 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jeff Parket

This email was sent by Jeff Parker via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jeff provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jeff Parker at *****.

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Parker, Rebecca – Wednesday, 09 February 2022 – 06:36:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Rebecca Parker
Sent	2/9/2022 6:36:30 AM

I am a fifth generation Territorian and from one of the first settler families to work and live around the Roper River. I am concerned about the lack of regulation of fracking in the NT and the fact that the recommendations from the Pepper Inquiry have not been implemented. You are putting one of our greatest natural resources at risk.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Rebecca Parker via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rebecca provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rebecca Parker at *****.

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Paterson, Lee – Friday, 04 February 2022 – 11:25:56

Subject	Objection to Origin EMP for EP 98 & 76
From	Lee Paterson
Sent	2/4/2022 11:25:56 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Lee Paterson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lee provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lee Paterson at *****.

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Pattinson, Jillianp – Wednesday, 09 February 2022 – 11:48:11

Subject	Objection to Origin EMP for EP 98 & 76
From	Jillianp Pattinson
Sent	2/9/2022 11:48:11 AM

Origin Energy does not need to exploit possible gas fields in this area. The risks to the environment far outweigh the advantages. To put at risk one of the great artesian water supplies of the world for an unnecessary resource is criminal. Renewables and alternatives sources of energy are coming along in leaps and bounds. It is time to stop wrecking our environment and risking the future of our children and other inhabitants of this planet so that a few very rich people can get a little bit richer.

Please, refuse this license.

It is clear Origin does not have a social license to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
JillianP Pattinson
Hamilton Valley, New South Wales, 2641, Australia

This email was sent by JillianP Pattinson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however JillianP provided an email address (*****) which we included in the REPLY-TO field.

Please reply to JillianP Pattinson at *****.

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Pearson, Will – Thursday, 03 February 2022 – 14:23:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Will Pearson
Sent	2/3/2022 2:23:54 PM

I object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Will Pearson

This email was sent by Will Pearson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Will provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Will Pearson at *****.

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Perkins, Carolyn – Wednesday, 09 February 2022 – 07:34:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Carolyn Perkins
Sent	2/9/2022 7:34:59 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Carolyn Perkins via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Carolyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Carolyn Perkins at *****,

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Perry, Kai – Wednesday, 09 February 2022 – 09:38:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Kai Perry
Sent	2/9/2022 9:38:09 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kai Perry

This email was sent by Kai Perry via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kai provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kai Perry at *****.

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Pfister, Audrey – Wednesday, 09 February 2022 – 18:30:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Audrey Pfister
Sent	2/9/2022 6:30:04 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Audrey Pfister
Petersham, New South Wales, 2049, Australia

This email was sent by Audrey Pfister via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Audrey provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Audrey Pfister at *****.

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Phelan, Samantha – Thursday, 10 February 2022 – 16:49:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Samantha Phelan
Sent	2/10/2022 4:49:23 PM

I can't actually believe we are still going on with this ridiculous charade. The climate warms. We live on the driest continent on earth. We live in one of the hottest parts of that continent. We are responsible for the highest fauna extinction rate globally....and still you pursue this folly without enacting 75% of Peppers recommendations. It breaks my heart that you cannot see the headlong destruction you are aiming at my grandchildren.

I object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Samantha Phelan
PO Box 2140,
Katherine
, Northern Territory, 0850, Australia

This email was sent by Samantha Phelan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at

*****), however Samantha provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Samantha Phelan at *****.

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Philipp, Kristine – Wednesday, 09 February 2022 – 10:27:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Kristine Philipp
Sent	2/9/2022 10:27:59 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kristine Philipp
Abbotsford, Victoria, 3067, Australia

This email was sent by Kristine Philipp via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kristine provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kristine Philipp at *****.

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Pickles, Apickles@Gmail.Com – Thursday, 10 February 2022 – 13:45:07

Subject	Objection to Origin EMP for EP 98 & 76
From	Apickles@Gmail.Com Pickles
Sent	2/10/2022 1:45:07 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by ***** Pickles via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however ***** provided an email address (*****) which we included in the REPLY-TO field.

Please reply to ***** Pickles at *****.

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Pigot, Bronte – Wednesday, 09 February 2022 – 09:36:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Bronte Pigot
Sent	2/9/2022 9:36:54 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Bronte Pigot
Marrara, Northern Territory, 0812, Australia

This email was sent by Bronte Pigot via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Bronte provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Bronte Pigot at *****.

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Pilbeam, Brenda – Thursday, 10 February 2022 – 15:04:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Brenda Pilbeam
Sent	2/10/2022 3:04:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Brenda Pilbeam via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Brenda provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Brenda Pilbeam at *****.

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Piper, Ann – Wednesday, 09 February 2022 – 12:09:41

Subject	Objection to Origin EMP for EP 98 & 76
From	Ann Piper
Sent	2/9/2022 12:09:41 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ann Piper

This email was sent by Ann Piper via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ann provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ann Piper at *****.

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Potter, Catherine – Wednesday, 02 February 2022 – 06:14:20

Subject	Objection to Origin EMP for EP 98 & 76
From	Catherine Potter
Sent	2/2/2022 6:14:20 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Catherine Potter
Agnes Water, Queensland, 4677, Australia

This email was sent by Catherine Potter via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Catherine provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Catherine Potter at *****.

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Power, Ruby – Friday, 04 February 2022 – 13:52:33

Subject	Objection to Origin Exploratory Gas Wells
From	Ruby Power
Sent	2/4/2022 1:52:33 PM

Dear Minister,

I am a young territorian and am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

I am highly concerned as to the impact this project will have on the future of young territorians such as myself for whom the enjoyment of the environment is integral to my life in the territory.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan particularly on the grounds of the added emissions as will be generated by the wells.

I am concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Ruby Power

This email was sent by Ruby Power via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ruby provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ruby Power at *****.

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Preston, Caz – Tuesday, 08 February 2022 – 20:37:59

Subject	Objection to Origin EMP for EP 98 & 76
From	Caz Preston
Sent	2/8/2022 8:37:59 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Caz Preston
White Gums, Northern Territory, 0870, Australia

This email was sent by Caz Preston via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Caz provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Caz Preston at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Price, Sharon – Wednesday, 09 February 2022 – 22:25:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Sharon Price
Sent	2/9/2022 10:25:54 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sharon Price

This email was sent by Sharon Price via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sharon Price at *****.

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Prideaux, Michelle – Tuesday, 01 February 2022 – 20:41:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Michelle Prideaux
Sent	2/1/2022 8:41:00 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

Once places like this are gone, they are gone for good!

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Michelle Prideaux
Basalt, Queensland, 4820, Australia

This email was sent by Michelle Prideaux via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Michelle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Michelle Prideaux at *****.

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Pritchard, Matt – Wednesday, 09 February 2022 – 07:01:08

Subject	Objection to Origin EMP for EP 98 & 76
From	Matt Pritchard
Sent	2/9/2022 7:01:08 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Matt Pritchard via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Matt provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Matt Pritchard at *****.

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Puczkowski, Frances – Thursday, 10 February 2022 – 11:50:36

Subject	Objection to Origin EMP for EP 98 & 76
From	Frances Puczkowski
Sent	2/10/2022 11:50:36 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Frances Puczkowski via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Frances provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Frances Puczkowski at *****.

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Pyle, Ron – Thursday, 03 February 2022 – 14:43:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Ron Pyle
Sent	2/3/2022 2:43:06 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
ron pyle

This email was sent by ron pyle via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however ron provided an email address (*****) which we included in the REPLY-TO field.

Please reply to ron pyle at *****.

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Pyne, Leslie – Wednesday, 09 February 2022 – 10:30:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Leslie Pyne
Sent	2/9/2022 10:30:22 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Leslie Pyne

This email was sent by Leslie Pyne via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Leslie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Leslie Pyne at *****.

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Quinlivan, Anne – Wednesday, 09 February 2022 – 08:12:57

Subject	Most Australians absolutely reject Origin EMP for EP 98 & 76
From	Anne Quinlivan
Sent	2/9/2022 8:12:57 AM

Good day to you.

Fracking & CSG have caused environmental, agricultural & community devastation in the US & other parts of the globe, with the Gas Industry leaving numerous decommissioned wells leaking fugitive greenhouse emissions while tax payers foot the clean up bill.

Fact: ground water contamination, despite all industry assertions to the contrary, is unavoidable, which is why smart countries like Germany, France, Ireland, Bulgaria, the UK etc have placed a permanent ban on the Unconventional Gas Industry, indeed actively protect all major recharge zones to groundwater reserves & would never be stupid or irresponsible enough to Frack anywhere near something as precious & critical to survival as the Great Artesian Basin.

Meanwhile, in good old Australia, we've opened the doors to Big Gas, which is a sad indictment of current Australian political & industry values, and, given the realities of a drought prone country, the pressing need for agricultural resilience & food security, & the urgent imperatives of Climate change, utterly morally deficient.

The Fracking & CSG industries are untenable. Will most assuredly cause widespread devastation to fragile landscapes via denuded aquifers, permanent freshwater contamination, the drying out of surface ecosystems which markedly exacerbates bushfire risk, agricultural losses & food instability, along with community illness & suffering.

If that's not enough, we have an urgent responsibility to tackle the rapidly escalating Climate crisis & it's existential impact on coming generations. Whom undoubtedly will never forget the bitter legacy or the names of those whose psychopathic self interest unleashed the ecological suicide of Fracking in this country.

As a concerned grandmother I am profoundly disturbed by the complete lack of accountability, moral courage, & environmental intelligence currently shown by local, state & federal politicians by giving this industry the green light. The facts do not lie. The Unconventional Gas Industry will blight the future health, well being, productivity, resilience & beauty of this beloved country.

So get with the new programe please. Put your energy into building thriving local & export markets in Renewable Energy, indeed I fail to understand why you'd prefer to sponsor leaking Gas wells, contaminated land & water, stranded assets & climate chaos while huge trade opportunities in Renewables go begging.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anne Quinlivan
Tarrawanna, New South Wales, 2518, Australia

This email was sent by Anne Quinlivan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anne Quinlivan at *****.

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Ray, Johnston – Thursday, 10 February 2022 – 18:46:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Johnston Ray
Sent	2/10/2022 6:46:00 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Johnston Ray via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Johnston provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Johnston Ray at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Rich, Anne – Tuesday, 08 February 2022 – 16:45:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Anne Rich
Sent	2/8/2022 4:45:25 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

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Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Anne Rich via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anne Rich at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Rich, Anne – Wednesday, 09 February 2022 – 09:04:19

Subject	Objection to Origin EMP for EP 98 & 76
From	Anne Rich
Sent	2/9/2022 9:04:19 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Anne Rich

This email was sent by Anne Rich via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Anne provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Anne Rich at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Richards, Rodger – Wednesday, 09 February 2022 – 16:56:22

Subject	Objection to Origin EMP for EP 98 & 76
From	Rodger Richards
Sent	2/9/2022 4:56:22 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rodger Richards
Glen Davis, New South Wales, 2846, Australia

This email was sent by Rodger Richards via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rodger provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rodger Richards at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Robbie, Mandy – Wednesday, 09 February 2022 – 17:52:42

Subject	Objection to Origin EMP for EP 98 & 76
From	Mandy Robbie
Sent	2/9/2022 5:52:42 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Mandy Robbie via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mandy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mandy Robbie at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Robertson, Peter – Wednesday, 02 February 2022 – 10:14:36

Subject	DEPWS - Consultation Form - 1084211
From	Peter Robertson
Sent	2/2/2022 10:14:36 AM

Contact details

First name: Peter

Surname: Robertson

Email address: *****

Country: Australia

Postcode: 0820

Phone number:

Stakeholder type: Community

Feedback

Activity you are providing feedback on: Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76

Category type: Social and cultural, Flora and fauna, Water, Waste Management, Climate change, Human health, Chemicals, Regulation and compliance, Well integrity

If other, please specify::

Comments: Origin's plans for large scale fracking of the Beetaloo ignore health and seismicity risks and quantified impacts. These risks and quantified impacts have been ignored in Origin's plans. 1. Increased earthquake activity Texas went big on oil. Earthquakes followed. <https://www.vox.com/22891806/texas-earthquakes-oil-gas-drilling-wastewater-reinjection> Seismologists say that one of the state's biggest industries is upsetting a delicate balance deep underground. They blame the oil and gas business — and particularly a technique called wastewater injection — for waking up ancient fault lines, turning a historically stable region into a shaky one, and opening the door to larger earthquakes that Texas might not be ready for. 2. Health impacts Living near fracking sites raises risk of premature death for elderly, US study finds. Findings are result of first major study into link between premature death in older people and unconventional drilling. https://doi.org/10.1038/s41*****0-y Exposure to unconventional oil and gas development and all-cause mortality in Medicare beneficiaries Longxiang Li? ? 1 ?? , Francesca Dominici? ? 2 , Annelise J. Blomberg? ? 1,4 , Falco J. Bargagli-Stoffi? ? 2 , Joel D. Schwartz 1,3 , Brent A. Coull 1,2 , John D. Spengler 1 , Yaguang Wei? ? 1 , Joy Lawrence 1 and Petros Koutrakis 1 Little is known about whether exposure to unconventional oil and gas development is associated with higher mortality risks in the elderly and whether related air pollutants are exposure pathways. We studied a cohort of 15,198,496 Medicare beneficia-ries (136,215,059 person-years) in all major US unconventional exploration regions from 2001 to 2015. We gathered data from records of more than 2.5 million oil and gas wells. For each beneficiary's ZIP code of residence and year in the cohort, we calculated a proximity-based and a downwind-based pollutant exposure. We analysed the data using two methods: a Cox proportional hazards model and a difference-in-differences design. We found evidence of a statistically significant higher mortality risk associated with living in proximity to and downwind of unconventional oil and gas wells. Our results suggest that primary air pollutants sourced from unconventional oil and gas exploration can be a major exposure pathway with adverse health effects in the elderly.

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Attachment 2: No file uploaded

Attachment 3: No file uploaded

Attachment 4: No file uploaded
Attachment 5: No file uploaded
Privacy:

Form Information

Site Name Department of Environment, Parks and Water Security
Site Id 191941
Page Standard Name Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing
Program Exploration Permit (EP) 98 & 76
Page Standard Id 1081582
Page Custom Form Name Consultation form
Page Custom Form Id 1081612
Url <https://depws.nt.gov.au/onshore-gas/environment-management-plan/beetaloo-sub-basin-multi-well-drilling-stimulation-and-well-testing-program-exploration-permit-ep-98-and-76/consulation-form>
Submission Id 1084211
Submission Time 02 Feb 2022 10:14 am
Submission IP Address Not available

Robins, Dan – Tuesday, 01 February 2022 – 22:34:46

Subject	Objection to Origin EMP for EP 98 & 76
From	Dan Robins
Sent	2/1/2022 10:34:46 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Dan Robins via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dan Robins at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Robson, Kimberley – Tuesday, 08 February 2022 – 16:24:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Kimberley Robson
Sent	2/8/2022 4:24:23 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kimberley Robson
White Gums, Northern Territory, 0870, Australia

This email was sent by Kimberley Robson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kimberley provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kimberley Robson at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Rogers, Greg – Friday, 04 February 2022 – 17:59:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Greg Rogers
Sent	2/4/2022 5:59:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
greg rogers
Stirling North, South Australia, 5710, Australia

This email was sent by greg rogers via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however greg provided an email address (*****) which we included in the REPLY-TO field.

Please reply to greg rogers at *****.

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Ropers, Karen – Wednesday, 09 February 2022 – 09:27:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Karen Ropers
Sent	2/9/2022 9:27:32 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Karen Ropers
Nailsworth, South Australia, 5083, Australia

This email was sent by Karen Ropers via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Karen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Karen Ropers at *****.

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Rose, Olivia – Thursday, 10 February 2022 – 11:21:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Olivia Rose
Sent	2/10/2022 11:21:13 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Olivia Rose via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Olivia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Olivia Rose at *****.

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Rossum, Harm – Wednesday, 09 February 2022 – 09:42:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Harm Van Rossum
Sent	2/9/2022 9:42:53 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Harm Van Rossum
Boronia, Victoria, 3155, Australia

This email was sent by Harm Van Rossum via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Harm provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Harm Van Rossum at *****.

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Rundell, Hay – Thursday, 10 February 2022 – 16:06:01

Subject	I TOTALLY Object to Origin EMP for EP 98 & 76
From	Hay Rundell
Sent	2/10/2022 4:06:01 PM

I OBJECT to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

FRACKING IS NOT SAFE.

AND CANNOT BE DONE WITHOUT ADVERSE EFFECTS ON THE WATER, AIR, LAND AND THE WHOLE NATURAL ENVIRONMENT.

Origin DOES NOT HAVE A social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and DRILLING AT LEAST. POSSIBLY MORE.
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Hay Rundell
Heathmere, Victoria, 3305, Australia

This email was sent by Hay Rundell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Hay provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Hay Rundell at *****.

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Rykmans, Judy – Wednesday, 09 February 2022 – 17:22:34

Subject	Objection to Origin EMP for EP 98 & 76
From	Judy Rykmans
Sent	2/9/2022 5:22:34 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Judy Rykmans

This email was sent by Judy Rykmans via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Judy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Judy Rykmans at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Samarawickrama, Asitha – Monday, 07 February 2022 –
00:19:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Asitha Samarawickrama
Sent	2/7/2022 12:19:40 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Asitha Samarawickrama

This email was sent by Asitha Samarawickrama via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Asitha provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Asitha Samarawickrama at *****.

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Sampson, Mary – Wednesday, 09 February 2022 – 12:10:28

Subject	Objection to Origin EMP for EP 98 & 76
From	Mary Sampson
Sent	2/9/2022 12:10:28 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Mary Sampson n

This email was sent by Mary Sampson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Mary provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Mary Sampson at *****,

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Sam-Rioli, Shannyn – Monday, 07 February 2022 – 13:04:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Shannyn Ah Sam-Rioli
Sent	2/7/2022 1:04:30 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Shannyn Ah Sam -Rioli
Marrara, Northern Territory, 0812, Australia

This email was sent by Shannyn Ah Sam-Rioli via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Shannyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Shannyn Ah Sam-Rioli at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

SANDKUHLER, Adrian – Thursday, 10 February 2022 –
17:31:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Adrian SANDKUHLER
Sent	2/10/2022 5:31:09 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Adrian SANDKUHLER via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Adrian provided an email address (*****om) which we included in the REPLY-TO field.

Please reply to Adrian SANDKUHLER at *****om.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Saunders, Jocelyn – Wednesday, 09 February 2022 – 17:02:01

Subject	Objection to Origin EMP for EP 98 & 76
From	Jocelyn Saunders
Sent	2/9/2022 5:02:01 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Jocelyn Saunders via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jocelyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jocelyn Saunders at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Savchuk, Lisa – Wednesday, 09 February 2022 – 06:51:58

Subject	Objection to Origin EMP for EP 98 & 76
From	Lisa Savchuk
Sent	2/9/2022 6:51:58 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Lisa Savchuk
Prospect East, South Australia, 5082, Australia

This email was sent by Lisa Savchuk via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lisa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lisa Savchuk at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Sawyer, Graeme – Thursday, 10 February 2022 – 12:30:22

Subject	TRM: Please find attached a response from the Protect Country Alliance
From	Graeme Sawyer
Sent	2/10/2022 12:30:22 PM

Please find attached a response to the EMP proposal from the Protect Country Alliance.

Best regards,

Graeme Sawyer
Coordinator
Protect Country Alliance

Ph *****

***** <mailto:*****>

Attached Documents

**SUBMISSION Re Origin Energy B2 Beetaloo Sub-basin Multi-well Drilling, Stimulation
and Well Testing Program Exploration Permit (EP) 98 & 76 EMP on behalf of the
Protect Country Alliance (PCA)**

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Executive Summary

The Protect Country Alliance (PCA) brings together impacted landholders, communities, and civil society groups concerned about gas fracking proposals or projects in the Northern Territory. The Alliance is made up of delegates representing regional communities across the NT including; Elliott, Marlinja, Minyeri, Borroloola, Mataranka, Jilkminngan and Hermannsberg. The PCA also has member organisations based in all major population centres across the NT.

Despite Origin's claims that all landholders and Traditional Owners consent to this project, the PCA works with many in the region, including Native Title Holders and Traditional Owners and pastoralists who strongly object and are extremely concerned about the risks to their livelihoods. This division and discrepancy should be acknowledged in the EMP. The current EMP presents unacceptable risk to the Territory's water, land and culture.

The ORI10-1 EMP fails to meet the criteria for approval under the Petroleum (Environment) Regulations 2016 and should be rejected.

PCA has identified many significant issues which mean that the EMP's proposed activities and mitigation measures fall short of the standard required under the Petroleum (Environment) Regulations 2016 ('the Regulations'), and must be rejected.

- I. There are insufficient baseline knowledge, policy certainty and regulatory safeguards to properly understand and mitigate the risks associated with onshore unconventional gas extraction in the NT. The precautionary principle dictates that exploration activities should not proceed in these circumstances.
- II. Origin's interpretation of the cumulative impact assessment requirement under the Regulations contradicts the clear intention of the amended provision and misleadingly downplays the scale of its exploration program's environmental impacts.
- III. Origin's greenhouse gas emissions assessment lacks supporting evidence and results in an underestimate of anticipated emissions.
- IV. The EMP mischaracterises and fails to adequately mitigate real risks to stygofauna and subsurface groundwater dependent ecosystems.
- V. The assessment and proposed mitigation of impacts on threatened species and local wildlife draws on insufficient baseline data and includes illogical reasoning.
- VI. Proposals for the management of drilling waste and well integrity are unclear and fail to provide assurance about the isolation of toxins.
- VII. The project fails to meet the principles of Ecologically Sustainable Development (ESD) and creates significant risks for future generations, both in relation to threats to the groundwater systems in the region and broader climate emissions.

Given the issues set out below and the cumulative impacts of unconventional gas exploration in the Beetaloo, the EMP should be referred to the NT EPA for assessment as to whether an environmental impact assessment is required under the *Environment Protection Act 2019* prior to a decision being made (ss 55(2), (4)). There are significant risks and uncertainties that need to be evaluated and assessed, not the least of which is the stygofauna and groundwater

implications revealed in the SREBA studies to date, especially when viewed in the context of long term well failures and ESD principles.

We also have concerns about Origin's engagement with Traditional Owners and landowners in the NT, and the purported social and economic benefits of the proposed activities. We have recently seen the *Rallen V SANTOS* court decision finding woefully inadequate consultation with impacted landowners and further showing that the NT government, as the regulator, was not aware of these consultation failings in approving the relevant EMP. Our feedback suggests that Origin's consultation has also been inadequate and this needs to be checked in detail.

Insufficient baseline knowledge

The Pepper Inquiry concluded that there were significant gaps in knowledge about surface and underground water resources, hydrogeology, and aquatic and terrestrial ecosystems in the NT, which prevented an adequate assessment of the risks to environmental values posed by onshore gas.¹ The Pepper inquiry said that their 135 recommendations could not be relied upon in relation to groundwater and that the SREBA needed to be conducted before a final risk assessment could be made in relation to groundwater issues.²

Whilst the SREBA is not complete, and the parts that have been done have issues about their quality, the results to date provide significant new levels of information that dramatically change the risk analysis relating to potential impacts on groundwater. These elevated risks include the existence of new species of stygofauna, the connectivity issues revealed by DNA comparison, the presence of sulphide reducing bacteria, new flow information etc. This information needs to be analysed in relation to the risks associated with this EMP.

The environmental risks of onshore gas activities cannot be considered adequately mitigated to an acceptable level in the absence of a comprehensive understanding of baseline environmental values in the Beetaloo, a clear policy for the avoidance of additional greenhouse gas emissions from onshore gas, coherent and enforceable protections for ground water resources, including stygofauna and the full implementation of all other Pepper Inquiry recommendations.

The Inquiry accordingly recommended the completion of a Strategic Regional Environmental Baseline Assessment ('SREBA') for prospective onshore shale gas regions, with the Beetaloo to be prioritised.³ This has not yet been done. This means that it is currently irresponsible and potentially unsafe to allow such activities to proceed. In addition, while this EMP may cover 'exploration and appraisal' rather than 'production' activities, and as a result arguably have a smaller environmental footprint, it is unclear why the NTG would consider it appropriate to allow any steps towards the development of a full-scale onshore gas industry, and associated environmental impacts, when it has not yet ascertained whether such an industry could safely and sustainably operate. Already there are clear impacts, as an example, the Well Completion Report (WCR) drilling log file for Tanumbirini 1⁴ showed approximately **21 million litres** of these drilling mud fluids were lost in the first 400 metres of the drilling process

In recognition of the principles of ecologically sustainable development ('ESD principles'), the Pepper Inquiry recommended that the NT and Australian Governments seek to ensure that there is no net increase in the life cycle GHG emissions from onshore gas produced in the NT.⁵ Although at the exploration stage of its gas project trajectory, Origin estimates that the activities encompassed in this EMP will produce 146.5 - 273 kilotonnes of CO₂-e, with a peak

¹ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 133.

² Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 4.6 p 39

³ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 7.5.

⁴ <https://geoscience.nt.gov.au/gemis/ntgsjspui/handle/1/83784>

⁵ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), Rec. 9.8.

annual emissions amount of 177.6kt CO₂-e.⁶ This peak emissions amount equates to 0.86% of the Northern Territory's entire annual emissions for 2019,⁷ just for one company's early exploration plans. In the absence of a completed, evidence-based and realistic greenhouse gas emissions offsets policy, it is not clear that emissions from onshore gas - including those created through the appraisal activities in this EMP - can successfully and economically be offset. The catastrophic consequences of further unmitigated greenhouse gas emissions for the world's climate are well-documented, and will have severe consequences for health and livelihoods in the Northern Territory. Without a viable plan for offsetting the emissions onshore gas, the emissions resulting from this EMP's activities and other steps towards the production of unconventional gas in the Beetaloo pose an environmental risk that cannot be said to be properly mitigated.

The NTG committed to developing a Water Allocation Plan ('WAP') or WAPs for the aquifers within and adjacent to the Beetaloo as part of its response to the Pepper Inquiry's final report in 2018. No such WAPs have yet been developed. This means that there is no way of knowing whether the enormous amounts of water required by Origin and other gas companies pursuing appraisal activities in the Beetaloo can safely and sustainably be allocated without impacting other water users, including townships, Indigenous communities, pastoralists and other businesses. While these companies must obtain licences to extract groundwater, these licences are considered and granted in isolation and rarely, if ever, informed by an overarching understanding of the cumulative impact of water consumption on water resources. Indeed, unless and until a SREBA is completed for the Beetaloo aquifers, such an understanding does not exist. This is a serious gap in the regulatory framework required to safeguard NT water, and must be filled to successfully mitigate the risks of activities like those in the EMP.

We note that in the EMP, Origin states at the outset of its risk assessment that 'the adoption of all recommendations by the NTG, the new Code of Practice and associated regulatory changes provides a high level of inherent protection to ensure activities are undertaken in a safe and consistent manner'.⁸ This is concerning, as the recommendations have not actually been implemented and the Pepper inquiry said they cannot provide any guarantees relating to groundwater, and thus the 'inherent protection' relied upon by Origin cannot be said to exist, undermining the integrity of its risk matrix.

Cumulative Impacts

The cumulative impact assessment does not align with the intention of the Regulations and misleadingly downplays the proposed activities' environmental impacts.

⁶ ORI10-1: Origin Energy B2 Pty Ltd Beetaloo Sub-basin Multi-well Drilling, Stimulation and Well Testing Program Exploration Permit (EP) 98 & 76 Environment Management Plan, p114-125 ('EMP').

⁷ The NT emitted 20.7Mt in 2019: Australian Government - Department of Industry, Science, Environment and Resources, *National Greenhouse Accounts 2019 - State and Territory Greenhouse Gas Inventories* <<https://www.industry.gov.au/data-and-publications/national-greenhouse-accounts-2019/state-and-territory-greenhouse-gas-inventories-annual-emissions>>.

⁸ EMP, 182.

The EMP's cumulative impact assessment is restricted to Origin's existing wells (in the Beetaloo only), two additional approved wells, and the four proposed in the EMP.⁹ This is problematic for three reasons.

First, it ignores the impacts of other gas companies' exploration and appraisal activities in the Beetaloo, even though these activities have the same kind of regional environmental impacts as Origin's own and therefore clearly 'accumulate'. This issue was raised by the Pepper Inquiry, which noted the potential for 'exploration creep' if the cumulative impacts of exploration activity are not assessed on a regional basis.¹⁰ The Regulations were amended at the recommendation of the Pepper Inquiry to require a cumulative assessment as a way of protecting against intensive exploration activity across multiple EPs inadvertently resulting in production-level environmental impacts before its recommendations were fully implemented. Origin's interpretation of the Regulations does not align with the clear intention of the amended Regulations, and the EMP therefore falls short of the standard required for approval under the framework.

As an example the Pepper Inquiry was unable to make conclusive assessments about the potential impacts of hydraulic fracturing on stygofauna and subterranean aquatic ecosystems due to a near complete lack of information about these organisms and ecosystems in the NT.¹¹ However, the Inquiry did state that such ecosystems are 'likely to be susceptible to excessive groundwater use and any contamination from shale gas hydraulic fracturing operations'.¹² What is the cumulative impact of the lost drilling mud from all the wells drilled across the Cambrian Limestone aquifer?

A second, similar, issue with this approach is that the environmental impacts of other industries in the region are also excluded, despite these industries also having similar consequences for the environment, such as extraction of groundwater, land clearing and increased noise, traffic, dust and light pollution.

Thirdly, this approach makes it difficult for the public (or the regulator) to evaluate Origin's risk assessments and conclusions, undermining the effectiveness of the EMP process. For example, Origin assesses that the 'increased industrialisation of landscape resulting in a loss of amenity and tourism value [is] considered low due to limited extent of petroleum activities'.¹³ Without an indication of the full scale of current and planned appraisal activity across the Beetaloo, it is difficult to know whether this is a fair assessment of the risk.

Finally, it contradicts Origin's own assessment of its objectives for a Beetaloo gas industry which, as illustrated in Figure 8 of the EMP, posits a large-scale gasfield comprising 400-500 wells. If Origin is planning for, and hoping to achieve, development on this scale, then the consequences of that development should be included in its assessment of the cumulative impacts of its plans. There is no valid reason for Origin to exclude 'what could eventuate if a successful result was achieved',¹⁴ and this approach does not align with the evident intention of the Regulations.

⁹ EMP, 25.

¹⁰ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 413-4.

¹¹ See Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 128, 166.

¹² Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 128.

¹³ EMP, 135.

¹⁴ EMP, 25.

Greenhouse gas emissions

The EMP's greenhouse gas emissions assessment lacks supporting evidence and omits relevant sources of emissions, resulting in a significant mischaracterisation of the climate change impacts of Origin's exploration program.

The EMP's assessment of the climate change impacts of the proposed activities is lacking in supporting evidence and downplays the scale of Origin's greenhouse gas emissions. Origin's summary of the cumulative greenhouse gas emissions from its proposed activities is limited to its own 'approved, proposed and potential' activities from 2022-24.¹⁵ It fails to take into account either the emissions from other companies' exploration activities in the Beetaloo, or emissions from its own previous and current works. The summary and assessment therefore mischaracterises the cumulative greenhouse impacts of exploration in the Beetaloo and disguises the actual scale and contribution of its own emissions.

Furthermore, Origin states that 'no material emissions are anticipated' from most of the activities that are included in the summary. No evidence is provided for this, no definition of 'material emissions' is provided, and it is unclear why activities like 'civil construction' are not expected to result in emissions. The greenhouse gas discussion also includes unfounded assertions like 'a future shale gas development will be net zero 1 and 2 emissions',¹⁶ while the contention that 'the current net climate benefits of using natural gas in replacing coal for electricity generation is up to 50% less emissions'¹⁷ not only factually incorrect when methane leakage is considered, but is irrelevant considering that, per Origin's own statements about the 'early' stage of its exploration project, any substitution of Origin-produced Beetaloo gas for coal could not be expected to occur for at least 3 years. Overall, the EMP fails to provide assurance that the serious climate consequences of the proposed activities have been either adequately identified or mitigated against.

Stygofauna and groundwater

Origin fails to identify and address real risks to subsurface groundwater dependent ecosystems and stygofauna, including recently discovered species.

Subsurface water systems are home to complex ecosystems, with underground organisms - 'stygofauna' - physiologically adapted to the comparatively low nutrient and oxygen, sunlight-free aquifer environment. Relatively little is known about stygofauna around Australia and especially in the NT, but there is evidence that the 'feeding, movement and excretion by diverse assemblages of stygofauna potentially enhance groundwater ecosystem services such as water purification, bioremediation and water infiltration.'¹⁸ As a result, jurisdictions around Australia recognise the ecological and biodiversity value of stygofauna, and have introduced regulation to protect subsurface groundwater-dependent ecosystems.¹⁹ Generally,

¹⁵ EMP, Table 25, 124.

¹⁶ EMP, 124.

¹⁷ EMP, 123.

¹⁸ Andrew J et al, 'Biodiversity, functional roles and ecosystem services of groundwater invertebrates' (2008) 22 *Invertebrate Systematics* 103.

¹⁹ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 115.

stygo fauna assemblages are more frequently found in shallower aquifers, where biomass and oxygen filtered down from the ground surface are more plentiful.

In order to fill these knowledge gaps and develop the understanding of stygo fauna essential to assessing the risks posed by onshore unconventional gas activities, the Inquiry recommended that the SREBA identify, characterise and provide measures to protect all subterranean aquatic ecosystems in the Beetaloo Sub-basin.²⁰ As discussed earlier, the Beetaloo SREBA has not been completed and Origin's fracking should not be allowed to proceed in the absence of this essential baseline data. However, the findings of preliminary stygo fauna studies for the SREBA²¹ have been released and include:

- That stygo fauna are present in the Cambrian Limestone Aquifer ('CLA') formations of the Beetaloo Sub-basin
- The CLA is home to at least 11 species of stygo fauna previously unknown to science, including a relatively large predatory shrimp species (indicating a multi-layered food web)
- The genetic similarity of the *Parisia unguis* shrimp species found at sample sites more than 300km apart adds to existing evidence of the interconnectedness of aquifers in and adjacent to the Beetaloo Sub-basin and along with the water studies²² show that pollutants can move over a significant distances and quite quickly

In an area such as the Beetaloo Sub-basin the availability of groundwater, and its quality, are essential factors in supporting the ability of people to live in the region and the region's ability to support a range of agricultural practices. The consequences of the inability to use this groundwater would be catastrophic for the region and those connected areas via the regional underground flows.

Stygo fauna are a very important element of groundwater and we now know there are extensive and unique stygo fauna assemblages in the underground waterways in the Beetaloo Sub-basin. Their probable role in groundwater quality shows risks to them could have very significant implications.

the links between biodiversity, ecosystem function, and ecosystem services in groundwater are unknown. In some aquifers, feeding, movement and excretion by diverse assemblages of stygo fauna potentially enhance groundwater ecosystem services such as water purification, bioremediation and water infiltration. Further,

²⁰ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), recommendations 7.19 and 7.20.

²¹ Gavin Rees et al, 'Characterisation of the stygo fauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory' (2020) GISERA project W18.

²² Huddleston-Holmes CR, Frery E, Wilkes P, Bailey AHE, Bernadel G, Brandon C, Buchanan S, Cook SB, Crosbie RS, Evans T, Golding L, Gonzalez Dda, Gunning ME, Hall LS, Henderson B, Herr A, Holland K, Jarrett A, Kear J, Kirby J, Lech M, Lewis S, Macfarlane C, Martinez J, Northover S, Murray J, O'Grady A, Orr ML, Owens R, Pavey C, Post D, Sundaram B, Rachakonda P, Raiber M, Ransley T, Tetreault-Campbell S and Wang L, (2020) Geological and environmental baseline assessment for the Beetaloo GBA region. Geological and Bioregional Assessment Program: Stage 2. Department of the Environment and Energy, Bureau of Meteorology, CSIRO and Geoscience Australia, Australia.

*as specific taxa apparently play 'keystone' roles in facilitating ecosystem services, declines in abundance or even their extinction have serious repercussions.*²³

Stygofauna are adapted to conditions of constant temperature, no sunlight, and low nutrient (particularly carbon) and oxygen content in the groundwater environment.

The Pepper inquiry noted the uncertainty of the implications for groundwater as no studies had been done to determine the presence of stygofauna in the Beetaloo region nor were there any research findings that could help with the risk assessment relating to the risks fracking-related processes would create for stygofauna in the underground water.

Recommendation 7.20

That the Beetaloo Sub-basin SREBA must identify and characterise all subterranean aquatic ecosystems, with particular emphasis on the Roper River region. P 165

The Panel is not able to comment on the potential consequences to any stygofauna present if an aquifer is contaminated because there is no toxicity data available for these animals. However, as stated above, a more detailed assessment of stygofauna should be part of the recommended strategic regional environmental baseline assessments recommended by the Panel. P166

However, an assessment of the possibility that groundwater biodiversity (stygofauna and GDEs) may be affected by over extraction or contamination of groundwater can only be done after the recommended SREBA is completed (Recommendation 7.5). P 166

The panel also made clear the need to develop a better understanding of risks:-

the concentrations of dissolved oxygen through the aquifer need to be determined to inform the potential for degradation of fugitive methane in groundwater by aerobic or anaerobic microbial pathways (see Section 7.6.1), and the potential for the occurrence of stygofauna; P 445

The release of preliminary research into the water systems of the Beetaloo area in the Northern Territory confirmed the existence of extensive populations of unique stygofaunal organisms, many of which are new species to science²⁴. There were 11 species new to science in the initial survey²⁵(note there further and more widespread surveys are needed).

²³ Andrew J. Boulton A,D, Graham D. Fenwick B, Peter J. Hancock A and Mark S. Harvey C ,2008 'Biodiversity, functional roles and ecosystem services of groundwater invertebrates', Invertebrate Systematics, 2008, 22, 103–116

²⁴ Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, 2020 "Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory " GISERA project number: W18. December 2020

²⁵ <https://theconversation.com/blind-shrimps-translucent-snails-the-11-mysterious-new-species-we-found-in-potential-fracking-sites-155137>

⁵ Oberprieler, S, Rees, GN, Nielsen, D, Shackleton, M, Watson, G, Chandler, L. and Davis, J, (2021) Connectivity, not short-range endemism, characterises the groundwater biota of a northern Australian karst system. Science of the Total Environment. 796:148955. <https://doi.org/10.1016/j.scitotenv.2021.148955>

Low genetic variation in the freshwater shrimp species, *Parisia unguis*, from sources hundreds of km apart confirm the water systems of the region are interconnected, it's essentially one big connected system. (you don't get such low variation if there are separate systems in the basin)

The presence of this species, ranging across a geographic distance of ~300 km, and the low genetic divergence (maximum 3.9% in COI and 3.29% in 16S RNA gene) among specimens indicate groundwater connectivity in recent times.⁵

Even in previous reviews of knowledge such as the CSIRO-led stygofauna in Australian groundwater it is clear that there are significant knowledge gaps in Australia. Origin's attempts to use this coal funded project to rationalise the threats fracking poses to stygofauna in the NT are simplistic, inaccurate and go against the Pepper Inquiry recommendations, especially the SREBA elements. There needs to be a much more detailed study of the risks to stygofauna created by changes to their environment caused by fracking processes before any further fracking, even exploratory, is allowed.

Stygofauna in the Beetaloo sub-basin are clearly different from species in coal seam and other gravel substrate systems. They are in karst systems that contain large sub-surface aquatic habitats. The large shrimp species, *Parisia unguis*, appears to be endemic to the NT but to have a high degree of mobility within Cambrian Limestone Aquifer (CLA) karst systems. It is possible that smaller stygofaunal species, such as amphipods, ostracods and copepods, may be more restricted, i.e., endemic, to specific areas or habitats within the CLA. Further surveys are needed to more fully understand the distribution of stygofauna within the region.

To allow these fracking processes to proceed without developing a clear understanding of the risks is a clear breach of both the Principles of Ecologically Sustainable Development (ESD) and the Precautionary Principle, both of which are guiding principles of the government policy and decision making in relation to the fracking EMPS's. They are also supposedly guiding principles of the Environmental Protection Authority (EPA).

These risks include water level changes and a change in dissolved oxygen concentrations in the groundwater, chemical susceptibilities of stygofauna, including Lethal Dose (LD50) information, and issues relating to changes in groundwater attributes and the complex food webs within these subterranean water bodies that may impact on stygofaunal species, which are renowned for being sensitive to changes.

There are also a series of questions that the Pepper inquiry raised that need to be answered in relation to the complex foodwebs, organisms and interactions that the introduction of carbon and other elements, especially biocides, might disrupt. These include

the concentrations of dissolved oxygen through the aquifer need to be determined to inform the potential for degradation of fugitive methane in groundwater by aerobic or anaerobic microbial pathways (see Section 7.6.1), and the potential for the occurrence of stygofauna;

the baseline concentrations of major ions must be established through the aquifer profile to provide a reference condition against which leakage of flowback water

from a well, or from a surface spill contaminating the groundwater, can be assessed. Pepper Inquiry Report Page 445

The GISERA-funded pilot study revealed a complex assemblage of new species and the presence of a very large (by stygofauna standards) predatory shrimp species. The presence of such a large predatory species indicates a significant and complex food web. Many risk factors are indicated by the literature about stygofauna.

As an example, leakage of methane into aquifers can lead to food webs being disrupted, resulting in a significant negative impact on water quality through an increase in microbacterial blooms, triggered by the methane. These changes can lead to water being unfit for human consumption and de-oxygenation of water.

Normally,

The limited supply of carbon reaching groundwater restricts the productivity of the ecosystem considerably, and constrains pristine aquifers to generally being low-energy environments, with, low biomass and low abundance of microbial and invertebrate fauna. Consequently, stygofauna live in environments with limited food supply.²⁶

These underground systems are “nutrient deprived” but the sudden injection of pollutants such as the drilling mud lost during the Tanumbirini 1 well drilling, will introduce significant levels of carbon and related food sources for bacteria into these systems with a likelihood of significant impacts.

Biocides are very toxic chemicals to aquatic organisms. Stygofauna are known to be extremely sensitive to chemicals. Biocides carry warnings such as: extremely toxic to aquatic organisms, has long lasting impacts²⁷. They must not be allowed to escape into ecosystems containing the newly discovered and as yet largely undescribed stygofauna. There is evidence that traces of these chemicals are in drilling mud.²⁸

The evidence from Table 6, Waste management, from Appendix 6 page 15 of the Imperial EMP shows clearly that the drilling fluids being used will contain biocides and these drilling fluids will be treated with drilling chemicals to increase use and avoid bacteria. The same biocide is indicated in SANTOS documents and the contractors are using the same product across the basin and origin mentions Be-9 will be used in their operation.

²⁶ Stygofauna in Australian Groundwater Systems: Extent of Knowledge P 3.

²⁷ *Environ. Sci. Technol.* 2015, 49, 1, 16–32 Publication Date: November 26, 2014
<https://doi.org/10.1021/es503724k>

²⁸ Environment Management Plan , Imperial Oil & Gas 2021-2025 EP187 Work Program NT Exploration Permit (EP) 187, www.haveyoursay.nt.gov.au

There is no specific testing data to show just how toxic these chemicals would be to stygofauna, which is part of the reason the precautionary principle must be invoked to stop this process. Stygofauna are known to be very sensitive to chemicals and disturbance. It is probable that these chemicals will cause changes in the stygofauna assemblages and disrupt their ecosystem service function.

Origin ignores these Beetaloo-specific findings in its EMP, instead relying on high level and generic indicators from a 2015 summary paper on stygofauna across Australia to conclude that stygofauna are unlikely to be affected by its proposed activities.²⁹

The EMP does not adequately identify or address risks to stygofauna and the ecosystem services they provide posed by the proposed activities, nor does it support the Minister to make a decision in accordance with the principle of evidence-based decision-making under section 20 of the Environment Protection Act 2019. This principle applies to the Minister's decision to approve an EMP, and dictates that decisions should be 'based on the best available evidence in the circumstances that is relevant and reliable'.

The SREBA and the specific research to characterise the Beetaloo's subterranean aquatic ecosystems are still underway, with further and more widespread surveys required. There are still huge gaps in our understanding of the distribution, vulnerabilities and ecosystem roles of stygofauna in the region, including EPs 76 & 98.

These gaps mean that it is impossible to be certain about the potential impacts of unconventional gas exploration activities on stygofauna, including from changes to dissolved oxygen levels in aquifers, the presence of drilling and fracturing chemicals, and leakage of methane into groundwater systems. Any of these occurrences would change the chemical composition of underground water, impacting the habitat and food sources of resident ecosystems, while little is known about the susceptibility of stygofauna to chemicals used by the gas industry. The lack of comprehensive characterisation of stygofauna assemblages also undermines their potential as an indicator or reference point for aquifer purity and health, which could otherwise help to monitor and protect these groundwater systems.

In the absence of sufficient knowledge to understand and properly mitigate against the risks to stygofauna and underground ecosystems, the precautionary principle and the principles of ecologically sustainable development dictate that caution must be exercised and exploration activities suspended unless and until these knowledge gaps are filled. A decision to approve the EMP in these circumstances would fail to fulfil the Minister's obligation to consider and apply these principles in her decision.

The Minister must also clarify why dissolved oxygen is not being used as one of the items monitored in the code of practice in relation to groundwater given it is such an important element.

Biodiversity

Origin's assessment of the risks to threatened species found in exploration areas is founded on inadequate baseline monitoring and lacks evidence to support its conclusions about the minimal impacts to local wildlife. The surveying program used to develop an understanding of

²⁹ EMP, 165.

the local flora and fauna populations in the project areas is somewhat unclear. At various points, the EMP refers to 'previous surveys and database searches' (no date or other details),³⁰ 'incidental fauna surveys at Amungee NW in 2021',³¹ 'recent surveys' (no date or other details),³² 'surveys undertaken elsewhere in the region' (no location or date details),³³ and the 'most recent August 2018 survey'.³⁴ The EMP includes a land condition assessment ('LCA') prepared by a contractor in 2021 (Appendix K). The LCA was commissioned in relation to the entirety of Origin's Beetaloo exploration program, and appears to have involved: ground truthing survey of the Velkerri 76 N1 lease area and access track in October 2019; three days of fieldwork across the Amungee and Beetaloo W sites within EP 98 in August-September 2021, and a weed survey of disturbed areas and access tracks at Amungee NW, Beetaloo W, Kyalla 117 N2 and Velkerri 76 S2.³⁵

The EMP relies heavily (both directly and via the LCA) on the results of desktop reviews of online databases, with the LCA used to verify database results and determine the actual likelihood of potentially occurring threatened species in fact being found in the project areas (and therefore the scale of environmental impacts). This is problematic for two key reasons.

First, the surveying exercises appear to be ad hoc and patchy, and therefore unable to provide an adequate basis for conclusions about the presence and impacts on local wildlife. Notably, there is no evidence provided of any direct flora or fauna surveying of the Velkerri 76 S2, and the reference to the 'most recent vegetation survey' in August 2018 includes the statement that 'as the survey was conducted during the late dry season, grasses and other annual species were difficult or impossible to identify'.³⁶ As acknowledged in subsequent sections of the EMP, grasses provide vital habitat and food sources for various threatened species, including the Gouldian Finch, and the reliance on an incomplete and out-dated vegetation survey is highly concerning.

Second, the databases used as the primary basis for the flora and fauna risk assessments do not provide accurate and comprehensive information about the distribution of species in the NT. The absence of comprehensive information about the biodiversity assets of regions including the Beetaloo was a key concern of the Pepper Inquiry, which recommended that the SREBA include terrestrial biodiversity assessments of potential onshore gas development areas and that no gas activities be allowed in areas found to have high conservation value.³⁷ These recommendations have not been fulfilled, and the databases relied upon by Origin and its contractor as the basis for its assessment of the risks to significant fauna remain highly unlikely to give an accurate idea of the presence and vulnerabilities of wildlife in the Beetaloo. The EMP itself recognises the gaps in relevant databases, noting that the extent of Bullwaddy (an important habitat for a range of native species) is 'far more extensive in the Beetaloo exploration area than that indicated by the NT Herbarium records'.³⁸ In the absence of complete databases, and given the fragmented populations of species such as the Gouldian Finch, on-the-ground monitoring is crucial. The fact that no such surveying has been

³⁰ EMP, 160.

³¹ EMP, 161.

³² EMP, 161.

³³ EMP, 161.

³⁴ EMP, 159.

³⁵ EMP Appendix K - Land Condition Assessment, 8-9.

³⁶ EMP, 159.

³⁷ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 185-6.

³⁸ EMP, 159.

undertaken by Origin indicates that its assessment of the 'low' risk to local fauna is unsupported.

The EMP also proposes the use of uncovered ponds to store wastewater, including fracking flowback fluids. This storage method allows for the evaporation of waste liquid, condensing toxic waste and resulting in lower transportation and disposal costs for the company. Due to the risk of spills during extreme rainfall events in the Territory's wet season, and the potential for access to toxic wastewater by wildlife, the Pepper Inquiry recommended that all wastewater should be stored in enclosed tanks.³⁹ Open wastewater tanks pose a clear risk to birds who consume, or fall into and can't escape from, the contaminated water they contain. Other environmental impact assessments for mining projects, and the Federal Government's Geological and Bioregional Assessment for the Beetaloo, have identified the toxicity of accessible mine waste water as a specific threatening process for Gouldian Finches.⁴⁰

The proposed activities are in the vicinity of wetlands that accommodate both numerous bird species, while threatened bird species including the Gouldian Finch are listed as occurring within the exploration area. Full mitigation of the toxicity risk to birds requires wastewater to be stored in enclosed tanks at all times. At the very least, tanks should be covered by a net to prevent access to wastewater and some form of escape ramp. Neither of these readily available measures is proposed in the EMP, meaning that the risk has not been reduced to a level that is as low as reasonably practicable. Instead, Origin makes the questionable conclusion that although the endangered Gouldian Finch is likely to occur within the exploration area, and there is wet season foraging habitat on-site, 'the high level of water availability regionally is likely to remove the driver to access the Amungee NW and Velkerri 76 S2 sites'.⁴¹ No real explanation is provided as to why finches would choose to travel to other water sources, especially when the open wastewater ponds will remain unattended (and uncovered) for large periods of inactivity over the EMP timeline. The EMP also refers to 'fauna monitoring results' as confirmation of the absence of Gouldian Finches,⁴² but as noted earlier there is no explanation of the timing or nature of this monitoring and there does not appear to have been any fauna surveying conducted in preparation for the EMP.

Waste and well integrity

The EMP does not contain sufficient specificity or certainty about the mitigation of environmental risks from wastewater and drilling muds to indicate that these risks have been reduced to an acceptable level that is as low as reasonably practicable. Origin states that '[a] low toxicity water-based drilling mud is anticipated to be used', that 'other low toxicity chemicals ... may also be used' and that 'synthetic based muds ... may be utilised to drill the horizontal and intermediate section of each of the wells'.⁴³ Overall, section 3.8.3.1 on drilling fluids, muds and cuttings mostly comprises generic information and does not provide an adequate foundation for an evaluation of the potential environmental impacts of drilling

³⁹ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), recommendation 7.12.

⁴⁰ Redbank Copper Ltd, 'Redbank: Gouldian Finch Management Plan' (2010), 9; Australian Government and CSIRO, 'Persistence of Gouldian Finch' <<https://gba-explorer.bioregionalassessments.gov.au/bee/items/item/15/0>>..

⁴¹ EMP, 162.

⁴² EMP, 162.

⁴³ EMP, 73. Emphasis added.

materials. Similarly, section 3.13.2.3 does not provide a clear treatment pathway for drilling muds. If drilling waste cannot be disposed of onsite, including because it is incompatible with surrounding soils or 'otherwise inappropriate' (presumably too toxic), the EMP states that it 'may be left in-situ across the wet season'.⁴⁴ No information is provided as to how the risk of run-off and dispersal of this potentially toxic waste into the environment during wet season monsoon events would be prevented.

Absolute well integrity is essential to ensuring that methane and industry chemicals do not leak into surrounding strata and, especially, groundwater systems during the shallower stages of drilling. The Gum Ridge and Anthony Lagoon formations of the CLA sustain the baseflow and riparian ecosystems of the Roper and Daly Rivers, as well as the Elsey National Park and the Mataranka springs major tourist attraction. There is strong evidence of interplay between the formations of the CLA, meaning that contamination of an aquifer at the Origin exploration sites would not remain confined to that area, but could spread to adjacent locations and ecosystems. The casing of Origin's existing Amungee NW-1H exploration well experienced a deformation which resulted in the cessation of fracture stimulation at the well. This event is only acknowledged once in the EMP, which states that 'this was not considered a major hazard'.⁴⁵ There is no evidence provided about who made this assessment or why, nor any indication of measures implemented by Origin to ensure that a similar deformation does not occur in the drilling and casing of its proposed wells. In combination with the fact that neither the Well Operations Management Plan nor the Well Integrity Management Plan for the proposed wells are made public, legitimate concerns arise as to Origin's ability and preparedness to ensure the integrity of its proposed exploration wells.

There is a failure to comply with the pepper inquiry and code of practice requirements and the lack of this information make it impossible to provide up to date feedback. As of 8 Feb 2022 the POINT website point.nt.gov.au, does not provide detailed information about Beetaloo W1, spudded 2016, Kyalla 117 spudded 2019 or Velkerri 76 spudded 2021. There is also no data from water monitoring bores at these locations available from these sources. Approval should not be given until these documents are available for public scrutiny.

Bacteria induced corrosion summary

The preliminary water study (Rees et al⁴⁶) confirms that sulphate-reducing bacteria (SRB) are present in the basin and colonising casings in water bores. The risks that these bacteria pose to the integrity of wells have very significant implications for the future and this needs to be factored into decision making.

The Pepper inquiry noted that their 135 recommendations could not be applied to groundwater until after the SDRABA and related research was done.

⁴⁴ EMP, 104.

⁴⁵ EMP, 113.

⁴⁶ Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, (2020) Characterisation of the stygofauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory. GISERA project number: W18. December 2020

7.7.3 Aquatic biodiversity

The Panel has not been able to assess the risk of any shale gas development to aquatic biodiversity in the NT because of the limited knowledge relating to NT aquatic biodiversity. Having said this, biodiversity in surface waters should be adequately protected if the Panel's recommendations prohibiting the shale gas industry extracting surface water (Recommendation 7.6) and discharging treated or untreated wastewater into drainage lines, waterways or temporary stream systems (Recommendation 7.17) are accepted. However,

an assessment of the possibility that groundwater biodiversity (stygo fauna and GDEs) may be affected by over extraction or contamination of groundwater can only be done after the recommended SREBA is completed (Recommendation 7.5).

P 166

The Pepper inquiry raised a number of issues that need to be investigated if Stygo fauna were found. It is very clear that there is no green light to fracking in the 135 recommendations and the SREBA study to date has raised massive concerns about risk factors that need detailed analysis, not the glossing over and ignoring of the evidence as seen in the Origin EMP and the NT's EPA response to Minister Lawler.

This risk analysis relating to Groundwater, including corrosion risks and stygo fauna clearly needs to be a part of the final risk assessment mentioned in the Pepper Inquiry's recommendation 4.6.

There is a massive risk of future problems created by well failures. These problems seem to be unavoidable if the wells are proceeded with, even exploration wells. This is a clear breach of ESD principles as it creates significant problems for future generations.

It is the clear responsibility of the NT government to regulate these risks. The stated policy that decisions in relation to petroleum and gas development will be guided by the principles of Ecologically Sustainable development (ESD) make it vitally important that the longer term view is taken with regards to this and other fracking proposals in the NT. It is possible that the fracking companies will be gone from the region and the responsibility for managing the outcomes of this corrosion, if that is even possible, will fall on future NT governments and the consequences will be suffered by future generations of Territorians. The evidence from the Marcellus shale in the US shows that the problems with leaks keep growing with time and massive remediation costs are thrown back onto governments and communities.

Well failure appears to be virtually guaranteed over time. As Professor Ingrassia notes eventually all wells fail. The consequences of the chemical and other pollutants are potentially extreme. Cattle properties are increasingly being concerned at the possible consequences of chemical spills and leaks and possible spoiling of groundwater quality.

Sulfate-reducing bacteria and sulphur-oxidizing bacteria (SOB) are in the Beetaloo⁴⁷ and are a massive risk to the long term viability of wells. These bacteria instigate corrosion processes

⁴⁷ Gavin Rees, Stefanie Oberprieler, Daryl Nielsen, Garth Watson, Michael Shackleton and Jenny Davis, (2020) Characterisation of the stygo fauna and microbial assemblages of the Beetaloo Sub-basin, Northern Territory. GISERA project number: W18. December 2020

that impact on concrete and steel structures. Microbially induced concrete corrosion (MICC) caused by sulphuric acid attack is a major problem with concrete. These are basic chemical reactions and cannot be stopped long term.

The Oil and Gas Industry can only control sulfate reducing bacteria (SRB) with biocides when it is on the inside of a well. The environment where SRB are present (mainly damp soil with organic material present or other bacteria which can provide a food source/or aquifers) is a natural control system until punctured by an oil and gas well. This gas or oil well, if cement coated, gives the SRB food and their numbers grow as the natural control (availability of food) is no longer constrained. As SRB “eat” the sulphates in the cement they exhaust Hydrogen Sulphate (rotten egg gas), which in the presence of water turns to acid, initiating the whole cycle starts again.

How long a well’s external surface will withstand the corrosive effects of this acid before it is broken down enough to allow cross contamination of the aquifers, depends greatly upon the number of bacteria present, but we can be absolutely confident that this cross contamination will eventually occur.

Reports show this corrosion is already a problem in QLD coal seam gas projects⁴⁸. Saltel Industries was approached in 2016 by one of Australia’s leading natural gas producers to tailor a solution for their unusual problem: in some of their CSG wells in Queensland, the 7-inch production casing must cope with severe and localised external corrosion developing at shallow depth. These corrosion cases are suspected to be caused by bacteria growing under specific pressure and temperature environments.

Microbiologically-influenced corrosion seems to be systemic in the region, and other operators might encounter similar issues in their CSG wells. There needs to be further study of this issue in the SREBA before these wells are allowed to proceed⁴⁹.

This information confirms that corrosion is an issue in the CSG areas of QLD and validates fears that the same process will cause wells to eventually fail in the NT, releasing injected chemicals and related material, back into the fractured rock layers, where they may mix with the hypersaline waters of the Moroak Aquifer before finding their way into aquifers and surface waterways.

The problem of well casing corrosion is extensive in the USA⁵⁰. A root cause analysis of the 2015 Aliso Canyon blowout determined that surface corrosion on the outside of well casing caused by prolonged contact with groundwater and microbes, most likely methanogenic Archaea, was the underlying cause of the corrosion.

There are many examples of corrosion problems affecting infrastructure in the NT. In 1998 the Adelaide River Bridge partially collapsed due to the impact of corrosive bacteria⁵¹.

⁴⁸ <https://www.einpresswire.com/article/480473562/xpandable-patches-to-extend-the-life-of-corroded-csg-wells-in-queensland-australia>

⁴⁹ Personal correspondence, Charles Albouy, Saltel Industries

⁵⁰ Concerned Health Professionals of New York, & Physicians for Social Responsibility. (2020, December). Compendium of scientific, medical, and media findings demonstrating risks and harms of fracking (unconventional gas and oil extraction) (7th ed.). <http://concernedhealthny.org/compendium/>

⁵¹ NT News August 27th 1998

The effect of corrosive water on cementing and casing in the NT is demonstrated by deep oil exploration wells (McDills and Dakota) drilled in the Perdika/Great Artesian Basin in the 1960s (the Perdika Basin is one of the prospective unconventional shale gas areas of the NT). Now, some fifty years later, the steel casing has almost entirely corroded away, resulting in inter-aquifer contamination. These wells required expensive rehabilitation work to stem artesian flow. A single bore cost the Territory and Commonwealth Governments \$500,000 to plug (1960s prices), as the company responsible for the well was insolvent.

This example highlights the issue of operator insolvency due to the boom and bust cycles of oil and gas development which complicates efforts to hold liable parties responsible and provide for timely remediation.

The hypersaline nature of the deep aquifers and the high temperature further raises concerns about the integrity of the wells with both deep corrosion risks and closer to surface risks. There is a major concern among stakeholders that integrity failure will connect the hypersaline deep aquifers like the Moroak to beneficial fresh water systems like the Gum Ridge aquifer. This poses a massive risk to the human and animal use of the region in the medium and long term and is clearly a breach of ESD principle of intergenerational equity.

The future risks imposed on Territorians and other economic sectors are completely inappropriate and are a clear breach of the EPBC act provisions relating to ESD and the precautionary principle. The Samuels report⁵² clearly articulates the failures of jurisdictions such as the NT to enforce the EPBC act and its embedded principles. The NT Government espouses the ESD principles as the guiding principles in its decision making in relation to the processes around fracking yet it does not appear to be implementing these principles. The principles must be applied to the review of this EMP.

Chemicals

Origin lists a range of chemical substances of extreme concern to people across the region and they should not be allowed to be injected into the ground where at some point they may leak into the underground water systems and eventually into major rivers in the NT. Given the corrosive bacteria issues and the statistics on well failures, especially long term, their use is unacceptable. The NT government has a major responsibility to regulate these chemicals and to protect the people and the environment in the NT from them.

Chemicals in fracking processes have been related to a range of environmental and health concerns and the EMP seems to gloss over these issues and what appears to be relevant information.

A lot of this information has emerged in the USA since the Pepper inquiry as the US becomes aware of and has to deal with groundwater pollution and leaking wells on a massive scale. Also it has emerged that per- and polyfluoroalkyl substances (PFAS) chemicals or their derivatives⁵³ are being used in fracking and it appears some of the substances listed by Origin

⁵² Samuel, G 2020, Independent Review of the EPBC Act—Interim Report, Department of Agriculture, Water and the Environment, Canberra.

⁵³ Horwitt, J.D, July 2021, Fracking with “ForeverChemicals” Physicians for Social Responsibility

are in these categories. PFAS and related chemicals, known as forever chemicals, have very significant health implications and have already caused significant community concern in the region and they should not be allowed. The risks are too extreme.

As an example, Polyethelene glycol is noted in the PSR fracking with PFAS document as one of the chemicals of concern. Michigan in the USA has a drinking water standard of 6 parts per trillion for such chemicals. One cup is enough to pollute 22 billion litres of water or 12000 Olympic swimming pools. The Origin EMP suggests hundreds of kilograms to be used. We ask that these chemicals be banned from use in the NT fracking industry.

The EMP does not show sufficient concern about Dioxane. Dioxane is listed in the 7th Compendium of Scientific, Medical, and Media Findings Demonstrating Risks and Harms of Fracking as a carcinogen⁵⁴:

Most notable is the constituent 1,4-dioxane, a previously discovered PW component that is associated with human cancer and has been shown to be challenging to remove from the waste-stream.

It is also an acute category 3 hazard to the aquatic environment.

Given the Stygofauna presence and the long term risks of leaks it is completely unacceptable to be adding these chemicals to the underground systems that people and biodiversity and livestock depend on and that could in the long term impact on rivers and the associated aquatic biodiversity.

Ethylene Glycol is listed as a chemical known to the State of California to cause birth defects or other reproductive harm. In animal studies it is consistently associated with adverse effects on the kidney such as crystal nephropathy.

Ulexite is known to be toxic to reproduction and may impair fertility and cause harm to the unborn child. These chemicals are dismissed as low concern yet there would appear to be much more risk than indicated, especially given the aquifers are sources of drinking water and agricultural water.

Biocides, such as Be-9 are a major risk to aquatic species, but there is no concern shown in the chemical analysis. The material is very toxic, and has classifications R51/53 Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment. The documents suggest 17000 litres will be used. This cannot be allowed until a full analysis of risks to Stygofauna is provided. There are many chemicals listed with high aquatic toxicity which means they have significant implications for stygofauna and the water systems from the Beetaloo through to Katherine, Flora, Daly and Roper rivers. There has been no research done on the possible impacts of these biocides on stygofauna or the groundwater environment of the Cambrian Limestone Aquifer. No further approvals should be made until this work is completed to enable an informed risk assessment.

⁵⁴ Lester, Y., Ferrer, I., Thurman, E. M., Sitterley, K. A., Korak, J. A., Aiken, G., & Linden, K. G. (2015). Characterization of hydraulic fracturing flowback water in Colorado: Implications for water treatment. *Science of the Total Environment*, 512-513, 637-644. doi: 10.1016/j.scitotenv.2015.01.043

It is vitally important that the NTG does its checking regarding these chemicals as the impacts on water, human and animal health are of great significance. If these chemicals turn up in agriculture or horticulture water supplies, they could greatly disrupt these industries.

There are many chemicals listed which carry significant warnings and are not analysed in a manner providing any confidence that they will not be a problem. The Marcellus shale area in the US has massive problems with chemicals in water and the 7th Compendium (2020)⁵⁵ and the Pennsylvania state Grand Jury give some insight into these problems. Chemicals like endocrine disruptors, surfactants and biocides are major risks and need much more detailed and careful analysis. It is the responsibility of the NT government to make sure this analysis is done thoroughly to identify and prevent human health risks and environmental risks.

Stakeholder engagement

We note with concern that some Traditional Owners with responsibility for country within these lease areas have raised serious concerns about the failure of Origin Energy to gain their free, prior and informed consent. Origin Energy appear to have consulted narrowly in relation to specific exploration wells only, thus disenfranchising other First Nations people with an interest in the consequences of exploration which will occur over much larger areas. We fully support Traditional Owner aspirations for a full participatory role in decision-making which they have raised in various fora and believe they should rightly be considered and treated as full stakeholders in relation to these EMPs. We also note that Australia is a signatory to the UN Declaration on the Rights of Indigenous Peoples, which protects First Nations people's rights to self-determination and to any consent for projects given to be free, prior to projects' commencement, and fully informed.

Origin has not provided adequate assurance that the environmental costs of its planned activities in the NT will be counterbalanced by tangible benefits to affected communities. The EMP states that 'the potential social and economic effects associated with the proposed exploration activities are considered to be minor and predominantly positive',⁵⁶ but neither evidence for this statement nor details about these 'positive' social and economic effects is provided. This is unsurprising, given that Origin's Corporate Affairs Manager has previously stated that:

*'...realistically, the shale gas industry is very hard to get into. The workforce is generally highly specialised... which can make sourcing appropriate local labour challenging. While Origin tries to employ local contractors where practicable, it is usually more efficient for us to work with large contractors who can provide multiple services for us, and these contractors are often not NT based.'*⁵⁷

Further concern is raised by an examination of attendance sign-in sheets for Origin's Velkerri 76 site, which indicated that over 90% of entrants in late 2020 were Origin employees or

⁵⁵ Concerned Health Professionals of New York, & Physicians for Social Responsibility. (2020, December). Compendium of scientific, medical, and media findings demonstrating risks and harms of fracking (unconventional gas and oil extraction) (7th ed.). <http://concernedhealthny.org/compendium/>

⁵⁶ EMP, 169.

⁵⁷ Stephanie Stonier, speaking at the Barkly Future Forum, March 2020.

contractors based in Queensland while local traditional owners had problems accessing the meeting.

Appendix B: Legislative and policy context

The Beetaloo Sub-basin has been identified by the Northern Territory and Australian Governments as a highly prospective region for the extraction of unconventional (shale) gas. The Beetaloo is a priority basin for development under the Australian Government's conceptual 'gas-fired recovery' plan for restoring the national economy from the impacts of COVID-19, and has been the subject of a 'Strategic Basin Plan' released in January 2021.⁵⁸ The key consequence of this designation has been significant financial and policy commitments made to the onshore gas industry, including the grant of \$21 million to Empire Energy to undertake exploration activities and repeated assertions of Australia's long-term need for natural gas by prominent Government figures.

The Northern Territory Government ('NTG') has similarly committed to pursuing the development of an onshore gas industry in the NT, despite prominent and persistent community opposition.⁵⁹ The NTG commissioned the Scientific Inquiry into Hydraulic Fracturing in the NT to provide an assessment of the potential social and environmental risks of fracking. The 'Pepper Inquiry' handed down its final report in 2018. The Inquiry made 135 recommendations, and concluded that it was only the implementation of all these recommendations that could 'create the framework that will mitigate the risks associated with any onshore shale gas industry in the NT'.⁶⁰

Notably, despite finding that its suite of recommendations could mitigate the risks of onshore gas, the Pepper Inquiry also concluded that:

*'...the Panel has identified four high-priority issues ... in respect of which there is insufficient information to enable a full risk assessment to be conducted for the development of a mature onshore shale gas industry. These are: sustainable groundwater use; contamination of groundwater with hydraulic fracturing fluids and wastewater from leaky wells; groundwater contamination from on-site surface spills of wastewater; and the effect of these water quantity and quality issues on either surface and/or groundwater-dependent ecosystems.'*⁶¹

The NTG has been progressing its work on the Pepper Inquiry recommendations, but its latest progress report indicates that only 65 of the 135 recommendations have been fully implemented.⁶² PCA is very concerned that some of the recommendations classified as 'fully

⁵⁸ Australian Government, 'Unlocking the Beetaloo: the Beetaloo Strategic Basin Plan' (January 2021) <<https://www.industry.gov.au/data-and-publications/unlocking-the-beetaloo-the-beetaloo-strategic-basin-plan>>

⁵⁹ See, e.g., "'Not now, not ever": NT Traditional Owners remain united against fracking' (2 August 2021) SBS <<https://www.sbs.com.au/news/not-now-not-ever-nt-traditional-owners-remain-united-against-gas-fracking/cf9140a9-8fcc-4c80-836d-0a6ca4efde14>>; Christopher Knauss, "'Grave mistake": climate scientists issue dire warning over Beetaloo Basin fracking plans' (23 September 2021) *The Guardian* <<https://www.theguardian.com/australia-news/2021/sep/23/grave-mistake-climate-scientists-issue-dire-warning-over-beetaloo-basin-fracking-plans>>.

⁶⁰ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 454.

⁶¹ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory, *Final Report* (April 2018), 166.

⁶² Northern Territory Government, 'Ninth Hydraulic Fracturing Implementation Progress Update' (14 December 2021) <<https://hydraulicfracturing.nt.gov.au/resources/community-bulletins/community-bulletin-47>>.

implemented' by the NTG have not actually been completely fulfilled to the standard indicated by the Pepper Inquiry.⁶³

Major recommendations that have not yet been implemented include:

- The application of the 'water trigger' under the *Environment Protection and Biodiversity Conservation Act 1999* Cth to onshore gas development (Rec 7.3)
- The completion of a Strategic Regional Environmental Baseline Assessment for the Beetaloo Sub-basin (Rec. 7.5)
- The development of a Water Allocation Plan for the aquifers underlying and adjoining the Beetaloo Sub-basin (Rec. 7.7)
- Regulation or policies to ensure that there is no net increase in the lifecycle greenhouse gas emissions from any onshore gas produced in the NT (Rec. 9.8)

The NTG released a 'Greenhouse Gas Policy for Major Emitters' in 2021 and undertook community consultation on the draft policy. No further engagement has occurred, nor has the final policy been released.

The NTG is also midway through a reform agenda for water regulation,⁶⁴ and released a 'Directions Paper' on a proposed *Strategic Water Plan* in December 2021. Onshore gas was not specifically mentioned in the Directions Paper.

63 Earth Justice report
https://www.lockthegate.org.au/only_a_quarter_of_nt_fracking_recommendations_implemented_in_full_nearly_four_years_since_inquiry

⁶⁴ See Northern Territory Government, 'Water Regulatory Reform 2021-23 - Information Paper' (1 September 2021).

Scantlebury, Carol – Tuesday, 08 February 2022 – 12:59:38

Subject	Objection to Origin EMP for EP 98 & 76
From	Carol Scantlebury
Sent	2/8/2022 12:59:38 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that propose a huge threat to the environment through risks to polluting both water resources and the air with greenhouse gases and from toxic water waste. With a climate emergency in place and due to the seasonal flooding in the northern territory this project is a threat to a large area.

Beside this project being a climate and environmental disaster, Territorians, especially the First Nation people, have not been consulted nor have they given permission for Origin Energy to proceed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Carol Scantlebury

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Please reply to Carol Scantlebury at *****.

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Scaturchio, Rosemary – Thursday, 03 February 2022 –
15:00:23

Subject	Objection to Origin EMP for EP 98 & 76
From	Rosemary Scaturchio
Sent	2/3/2022 3:00:23 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rosemary Scaturchio
Darwin DC, Northern Territory, 0820, Australia

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Please reply to Rosemary Scaturchio at *****.

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Schahinger, Dianne – Thursday, 03 February 2022 – 15:20:45

Subject	Objection to Origin EMP for EP 98 & 76
From	Dianne Schahinger
Sent	2/3/2022 3:20:45 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

Please don't allow Origin to bulldoze over the rights of the Aboriginal people.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Dianne Schahinger

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Please reply to Dianne Schahinger at *****.

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Schild, Beryl – Thursday, 10 February 2022 – 11:14:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Beryl Schild
Sent	2/10/2022 11:14:13 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Beryl Schild

This email was sent by Beryl Schild via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Beryl provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Beryl Schild at *****.

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Schmitz, Volker – Wednesday, 09 February 2022 – 10:42:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Volker Schmitz
Sent	2/9/2022 10:42:33 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Is there anyone in government that listens to the concerns raised by the science community? Global warming is real, the threats to our collective futures are real! Please stop looking at the money. There is no such thing as responsible fracking, no more than there is responsible Russian roulette!

This email was sent by Volker Schmitz via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Volker provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Volker Schmitz at *****.

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Schultz, Rosalie – Thursday, 03 February 2022 – 16:27:46

Subject	Objection to Origin EMP for EP 98 & 76
From	Rosalie Schultz
Sent	2/3/2022 4:27:46 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Rosalie Schultz
White Gums, Northern Territory, 0870, Australia

This email was sent by Rosalie Schultz via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Rosalie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Rosalie Schultz at *****.

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Shakes, Carolynne – Wednesday, 09 February 2022 – 08:37:45

Subject	Objection to Origin EMP for EP 98 & 76
From	Carolynne Shakes
Sent	2/9/2022 8:37:45 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Carolynne Shakes
Kent Town, South Australia, 5067, Australia

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Please reply to Carolynne Shakes at *****.

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Sharp, Emily – Wednesday, 02 February 2022 – 14:33:36

Subject	Objection to Origin Environmental Management Plan to drill and frack in the Roper region
From	Emily Sharp
Sent	2/2/2022 2:33:36 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Emily Sharp
Toowong, Queensland, 4066, Australia

This email was sent by Emily Sharp via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Emily provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Emily Sharp at *****.

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Shaun, Clark – Wednesday, 02 February 2022 – 11:27:06

Subject	Objection to Origin EMP for EP 98 & 76
From	Clark Shaun
Sent	2/2/2022 11:27:06 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Clark Shaun via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Clark provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Clark Shaun at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Sheppard, Jasmyn – Tuesday, 01 February 2022 – 18:25:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Jasmyn Sheppard
Sent	2/1/2022 6:25:43 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jasmyn Sheppard
Mparntwe, Northern Territory, 0870, Australia

This email was sent by Jasmyn Sheppard via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jasmyn provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jasmyn Sheppard at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Shiell, Trevor – Friday, 04 February 2022 – 15:41:12

Subject	Objection to Origin EMP for EP 98 & 76
From	Trevor Shiell
Sent	2/4/2022 3:41:12 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

trevor Shiell. Gas will be replaced by other sources of energy

The technology is obsolete and the waste of water is undefensble in the context of world food shortages

This email was sent by trevor Shiell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however trevor provided an email address (*****) which we included in the REPLY-TO field.

Please reply to trevor Shiell at *****.

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Smith, Greg – Thursday, 03 February 2022 – 19:57:30

Subject	Objection to Origin EMP for EP 98 & 76
From	Greg Smith
Sent	2/3/2022 7:57:30 PM

Fossil fuels are not the way of the future. Fugitive emissions from gas development are the untold story of the climate crisis. I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Greg Smith
Bardon, Queensland, 4065, Australia

This email was sent by Greg Smith via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Greg provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Greg Smith at *****.

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Smith, KR – Wednesday, 09 February 2022 – 14:05:51

Subject	Objection to Origin EMP for EP 98 & 76
From	KR Smith
Sent	2/9/2022 2:05:51 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
KR Smith
Pemulwuy, New South Wales, 2145, Australia

This email was sent by KR Smith via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however KR provided an email address (*****) which we included in the REPLY-TO field.

Please reply to KR Smith at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Smith, Sue – Thursday, 03 February 2022 – 14:49:27

Subject	Objection to Origin EMP for EP 98 & 76
From	Sue Smith
Sent	2/3/2022 2:49:27 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Sue Smith

This email was sent by Sue Smith via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sue provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sue Smith at *****.

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Smith, Zoe – Thursday, 10 February 2022 – 08:02:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Zoe Smith
Sent	2/10/2022 8:02:48 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Zoe Smith via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Zoe provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Zoe Smith at *****.

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Solonec, Alex – Monday, 07 February 2022 – 08:35:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Alex Solonec
Sent	2/7/2022 8:35:43 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Alex Solonec

This email was sent by Alex Solonec via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Alex provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Alex Solonec at *****.

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Somer, Julie – Wednesday, 09 February 2022 – 08:30:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Julie De Somer
Sent	2/9/2022 8:30:09 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP. PLEASE!

Yours sincerely,
Julie de Somer
New South Wales, 2330, Australia

This email was sent by Julie de Somer via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Julie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Julie de Somer at *****.

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Staines, Alisha – Wednesday, 09 February 2022 – 06:49:42

Subject	Objection to Origin EMP for EP 98 & 76
From	Alisha Staines
Sent	2/9/2022 6:49:42 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Alisha Staines
Unley Park, South Australia, 5061, Australia

This email was sent by Alisha Staines via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Alisha provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Alisha Staines at *****.

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Stanford, Lisa – Wednesday, 09 February 2022 – 07:15:21

Subject	Objection to Origin EMP for EP 98 & 76
From	Lisa Stanford
Sent	2/9/2022 7:15:21 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Lisa Stanford via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lisa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lisa Stanford at *****.

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Stanton, Meredith – Friday, 04 February 2022 – 18:47:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Meredith Stanton
Sent	2/4/2022 6:47:54 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

Gas mining in the Roper region poses a serious risk to the environment, climate and local water sources and must be rejected to protect traditional indigenous lands, people and culture from the invasive and polluting gas industry.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Meredith Stanton

This email was sent by Meredith Stanton via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Meredith provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Meredith Stanton at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Steele, Kerrie – Wednesday, 09 February 2022 – 11:16:04

Subject	Objection to Origin EMP for EP 98 & 76
From	Kerrie Steele
Sent	2/9/2022 11:16:04 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kerrie Steele
Tarrawanna, New South Wales, 2518, Australia

This email was sent by Kerrie Steele via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kerrie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kerrie Steele at *****.

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Stefanoff, Dr – Tuesday, 01 February 2022 – 22:45:47

Subject	Objection to Origin EMP for EP 98 & 76
From	Dr Lisa Stefanoff
Sent	2/1/2022 10:45:47 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Dr Lisa Stefanoff
White Gums, Northern Territory, 0870, Australia

This email was sent by Dr Lisa Stefanoff via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dr Lisa provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dr Lisa Stefanoff at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Stomann, Katrina – Friday, 04 February 2022 – 18:15:57

Subject	Objection to Origin EMP for EP 98 & 76
From	Katrina Stomann
Sent	2/4/2022 6:15:57 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

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- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Katrina Stomann

Munro Street, McMahon's Point, New South Wales, 2060, Australia

This email was sent by Katrina Stomann via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Katrina provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Katrina Stomann at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Sullivan, Karin – Wednesday, 09 February 2022 – 11:06:14

Subject	Objection to Origin EMP for EP 98 & 76
From	Karin Sullivan
Sent	2/9/2022 11:06:14 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by karin sullivan via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however karin provided an email address (*****) which we included in the REPLY-TO field.

Please reply to karin sullivan at *****,

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Szwed, Heather – Tuesday, 08 February 2022 – 11:18:29

Subject	Objection to Origin EMP for EP 98 & 76
From	Heather Szwed
Sent	2/8/2022 11:18:29 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

This email was sent by Heather Szwed via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Heather provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Heather Szwed at *****,

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T, Paula – Monday, 07 February 2022 – 15:55:17

Subject	Objection to Origin EMP for EP 98 & 76
From	Paula T
Sent	2/7/2022 3:55:17 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Paula T

This email was sent by Paula T via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Paula provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Paula T at *****.

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Tager, Shani – Thursday, 10 February 2022 – 09:29:06

Subject	Submission re Origin Energy's Beetaloo EPs 98 and 76
From	Shani Tager
Sent	2/10/2022 9:29:06 AM

Good morning,

Please see attached for the submission from 350 Australia.

Best,

Shani Tager (she/her) | Senior Campaigner
350 Australia

0432 *****

Follow us on Facebook | Twitter | Instagram

I acknowledge the Dharug and Gundungurra Nations on whose land I live and work. I recognise that sovereignty was never ceded and pay my respects to Elders past and present. There can be no climate justice without justice for First Nations people across the globe.

Attached Documents



10 February 2022

By email: origin.ep98&76@nt.gov.au.

350 Australia submission re Origin Energy's Beetaloo EPs 98 and 76

Thank you for the opportunity to make this submission. 350.org Australia is a registered charity, and our charitable purpose is to inform and educate the general public about climate change, its impact on the natural environment, and the need to reduce fossil fuel emissions and adopt renewable energy solutions. We are building a grassroots movement to stand up to the fossil fuel industry, and support a just transition from coal, oil and gas to a renewable-energy future for all. We have 60,000 supporters across the country.

350 Australia believes that this EMP fails to meet the criteria for approval as set out in the Petroleum (Environment) Regulations 2016. Given the significant impact of the plan in the context of cumulative impacts, we call on the Minister to refuse to consider it until it's been referred to the NT EPA for assessment as to whether an Environmental Impact Assessment is required.

Pepper recommendations not implemented

The Pepper Inquiry into Fracking in the NT found that the danger fracking poses to water resources, community health and the environment could *only* be reduced to an acceptable level if *all* of its recommendations were fully implemented.

These recommendations included a comprehensive baseline study into environmental and social values in the Beetaloo, the SREBA. The SREBA, along with most of the other Pepper Inquiry recommendations, has not been completed. In fact, the NT Government recently halted its support for crucial research into underground organisms ('stygofauna'), after scientists realised that the presence of these stygofauna across large distances probably means that aquifers in the Beetaloo are connected to waterways relied upon by communities outside the Basin - and would therefore be at risk of contamination from fracking's dangerous chemicals.

Without the baseline understanding of how essential water resources are connected and could be impacted by fracking, it is absurd for Origin to claim that it can successfully mitigate risks to those water resources. The absence of a comprehensive and completed SREBA means the risks from Origin's activities are impossible to properly understand.

Climate impact

Origin estimates that its exploration fracking will emit 146,518 to 273,030 tonnes of greenhouse gasses into the atmosphere. This equates to 1.3% of the Territory's entire greenhouse gas emissions for 2019 - just for one company's early exploration fracking plans. Analysts Reputex found that Beetaloo Basin greenhouse gas emissions would be up to 1.4 billion tonnes over 20 years.

These emissions are completely incompatible with the Territory's target of net zero emissions by 2050. The International Energy Agency modelling shows that new fossil fuel projects, like Origin's, are incompatible with achieving net zero emissions by 2050.

Analysis completed for the Federal Government last year found that if they're allowed to go ahead with their plans, gas companies like Origin could be drilling and fracking 20-40 new wells annually in the next few years, and 200-300 if the industry heads into full-scale production.

This situation poses an unacceptable risk to the global climate and approving the EMP would significantly undermine the Territory's target of net zero emissions by 2050.

Tait, Lillian – Thursday, 03 February 2022 – 15:38:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Lillian Tait
Sent	2/3/2022 3:38:33 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

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- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Lillian Tait
Emungalan, Northern Territory, 0850, Australia

This email was sent by Lillian Tait via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Lillian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Lillian Tait at *****.

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Taminiau, Dee – Tuesday, 08 February 2022 – 14:52:52

Subject	Objection to Origin EMP for EP 98 & 76
From	Dee Taminiau
Sent	2/8/2022 2:52:52 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

This email was sent by Dee Taminiau via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Dee provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Dee Taminiau at *****.

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Taylor, Isabel – Wednesday, 09 February 2022 – 22:17:32

Subject	Objection to Origin EMP for EP 98 & 76
From	Isabel Taylor
Sent	2/9/2022 10:17:32 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Isabel Taylor
Rum Jungle, Northern Territory, 0822, Australia

This email was sent by Isabel Taylor via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Isabel provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Isabel Taylor at *****.

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Taylor, Jane – Wednesday, 09 February 2022 – 06:44:09

Subject	Objection to Origin EMP for EP 98 & 76
From	Jane Taylor
Sent	2/9/2022 6:44:09 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

This email was sent by Jane Taylor via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jane provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jane Taylor at *****.

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Teasdale, Wendy – Wednesday, 09 February 2022 – 08:06:00

Subject	Objection to Origin EMP for EP 98 & 76
From	Wendy Teasdale
Sent	2/9/2022 8:06:00 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Wendy Teasdale
Sawtell, New South Wales, 2452, Australia

This email was sent by Wendy Teasdale via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Wendy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Wendy Teasdale at *****.

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Thio, Jill – Thursday, 10 February 2022 – 15:40:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Jill Thio
Sent	2/10/2022 3:40:33 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jill Thio
Deptford, Victoria, 3875, Australia

This email was sent by Jill Thio via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jill provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jill Thio at *****.

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Thompson, Katie – Tuesday, 08 February 2022 – 14:18:35

Subject	Objection to Origin EMP for EP 98 & 76
From	Katie Thompson
Sent	2/8/2022 2:18:35 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

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This email was sent by katie thompson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however katie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to katie thompson at *****.

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Tierney, Tracy – Wednesday, 09 February 2022 – 16:45:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Tracy Tierney
Sent	2/9/2022 4:45:33 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

This email was sent by Tracy tierney via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Tracy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Tracy tierney at *****.

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Todd, Gwenyth – Thursday, 03 February 2022 – 20:51:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Gwenyth Todd
Sent	2/3/2022 8:51:13 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gwenyth Todd
New South Wales, 2620, Australia

This email was sent by Gwenyth Todd via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gwenyth provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gwenyth Todd at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Toepfer, Suzette – Wednesday, 09 February 2022 – 09:07:25

Subject	Objection to Origin EMP for EP 98 & 76
From	Suzette Toepfer
Sent	2/9/2022 9:07:25 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

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Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Suzette toepfer
Mildura, Victoria, 3500, Australia

This email was sent by Suzette toepfer via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Suzette provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Suzette toepfer at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Tropeano, Virginia – Wednesday, 09 February 2022 – 09:30:48

Subject	Objection to Origin EMP for EP 98 & 76
From	Virginia Tropeano
Sent	2/9/2022 9:30:48 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Virginia Tropeano
Griffith DC, New South Wales, 2680, Australia

This email was sent by Virginia Tropeano via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Virginia provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Virginia Tropeano at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Trudgen, Michelle – Thursday, 10 February 2022 – 09:07:37

Subject	Objection to Origin EMP for EP 98 & 76
From	Michelle Trudgen
Sent	2/10/2022 9:07:37 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

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Please accept this submission and refuse the grant of this EMP.

This email was sent by Michelle Trudgen via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Michelle provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Michelle Trudgen at *****.

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Turner, Melinda – Thursday, 10 February 2022 – 18:33:01

Subject	Objection to Origin EMP for EP 98 & 76
From	Melinda Turner
Sent	2/10/2022 6:33:01 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Melinda Turner

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Please reply to Melinda Turner at *****.

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Tutty, Justin – Thursday, 10 February 2022 – 18:00:31

Subject	Objection to Origin EMP for EP 98 & 76
From	Justin Tutty
Sent	2/10/2022 6:00:31 PM

Origin does not have a social licence to operate.

These EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater (in violation of a clear recommendation from the Pepper inquiry)
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions (!!!)
- destroy habitat
- threaten groundwater

I've heard from Traditional Owners of land within Origin lease areas who have serious concerns about poor decision processes.

I'm also aware that this approvals path does not adequately consider cumulative impacts of broadscale exploitation.

Please refuse the grant of this EMP.

Yours sincerely,
justin tutty
Tiwi, Northern Territory, 0810, Australia

This email was sent by justin tutty via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however justin provided an email address (*****) which we included in the REPLY-TO field.

Please reply to justin tutty at *****].

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Vaughan, Alex – Thursday, 10 February 2022 – 15:08:48

Subject	Origin EMP ALEC submission
From	Alex Vaughan
Sent	2/10/2022 3:08:48 PM

To whom it may concern,

Please find attached ALEC's submission to 'Origin Energy Multi-well Drilling, Stimulation and Well Testing Program for Exploration Permit (EP) 98 & 76 Environment Management Plan'.

Kind regards,

Alex

--

Alexander Vaughan
Policy Officer
Arid Lands Environment Centre

Phone: (08) *****

Mobile: ***** 178

Website: alec.org.au

Facebook: [aridlandsec](https://www.facebook.com/aridlandsec)

I acknowledge that I live and work on Arrernte country, the sovereignty of which was never ceded.

Please note: I work Monday - Wednesday

Attached Documents



Office: 90 Gap Road Alice Springs NT
Mail: PO Box 2796 Alice Springs 0870 NT
Web: www.alec.org.au
Phone: 08 89522497
Email: policy@alec.org.au

10th February 2022

‘ORI10-1: Origin Energy Multi-well Drilling, Stimulation and Well Testing Program for Exploration Permit (EP) 98 & 76 Environment Management Plan’ submission

The Arid Lands Environment Centre (ALEC) is Central Australia’s peak community environmental organisation that has been advocating for the protection of nature and ecologically sustainable development of the arid lands since 1980. The ALEC community have been closely following the development of the Beetaloo Basin for 8 years now. ALEC’s policy work on fracking has focused on close engagement with the Scientific Inquiry into Hydraulic Fracturing in the Northern Territory handed down by Justice Pepper (Pepper Inquiry) and its subsequent implementation. In the past year consulted with our membership and community on the AMGP pipeline, Senate Inquiry into the Beetaloo Cooperative Drilling Policy, the Greenhouse Gas offsets policy and co-organised a webinar on this EMP and others proposed for the Beetaloo Basin in late Jan which was attended by 148 people. ALEC actively contributes to the development of energy and resources policy through regulatory reform, written submissions, community education and advocacy within the community.

ALEC welcomes the opportunity to provide a submission on Origin Energy’s Multi-well Drilling, Stimulation and Well Testing Program for Exploration Permit (EP) 98 & 76 Environment Management Plan

ALEC’s response will first focus on the regulatory environment of shale gas activities in the Beetaloo Basin and the failure to implement key recommendations of the Pepper Inquiry which limit the capacity for any exploration drilling project to be adequately and safely regulated, and the climate implications of the proposed EMP.

Pepper inquiry implementation as the regulatory environment of shale gas activities in the Beetaloo Basin.

As noted in the final report of the Pepper inquiry:

“The recommendations in this Report are a complete package. It is only the implementation of the entire package that will create the framework that will mitigate the risks associated with any onshore shale gas industry in the NT to an acceptable level. If the Government does not implement all the Panel’s recommendations, then the Panel, in the Panel’s assessment, is not able to state with certainty that the identified risks will be mitigated to acceptable levels.”²

Despite the Pepper Inquiry providing a pathway for fracking to occur in the Northern Territory, the viability of the industry from a regulatory standpoint remains unknown. The implementation of all 135 recommendations (which were consequently split into 138 for implementation) remains critical to the Territory Government's license to regulate, in addition to the gas industry's social license to operate.

Recent analysis¹ of the progress of Pepper Inquiry recommendation implementation shows that after 4 years, *only 36 of the 138* of the recommendations have been fully implemented, despite the government's continued promise that all recommendations will be fully implemented before gas extraction in the Beetaloo Basin reaches production stage². Exploration activity like that proposed by Origin in this EMP expanding to 6 wells send a clear signal that there is an increased urgency around exploration. The Northern Territory Government³ and Origin Energy's timelines also suggest that production licenses may be issued as early as 2023. In this context, it is deeply alarming that so much regulatory reform has not yet been progressed, indicating that the pace of exploration has outstripped that of the regulatory reform needed to effectively regulate shale gas exploration.

Erosion of trust in the SREBA process

The SREBA is a central component of the Pepper Inquiry involving the completion of 6 baseline studies over an advised 3-5 year period.⁴ A transparent and robust SREBA was a key feature to restore public confidence in the shale gas industry, in addition build confidence in the regulatory regime.

However at this stage the SREBA is incomplete and inadequate. Rather than the 3-5 year timeline as advised in the Pepper Inquiry, or the 3 years emphasised in the Draft SREBA framework (2019), elements of the SREBA, notably the social cultural and economic study have been reduced to a period of 18 months and the whole process is being fast tracked so as to conclude in December 2022. This has been done with no public consultation, nor has there been any communication outlining how and why this decision was made, when and by who. The decision to substantially erode the timeframe for research is unacceptable. The SREBA makes up 30 of the 135 recommendations of the Pepper Inquiry. A decision to compromise its timeline has implications for many of these recommendations.

The Pepper Inquiry was clear in the need for transparency and accountability in decision making. It was stated that, "transparent decision-making by an accountable regulator is the cornerstone of a trusted and efficient regulatory regime"⁵. The handling of the SREBA process is undermining trust in the regulatory regime.

¹ Lock the Gate, 2022. 'Whatever Pepper: Only ¼ of NT fracking recommendations implemented nearly four years since inquiry'. Accessed 10 February 2022.

² Gunner, M, 2018. Fracking moratorium lifted - strict laws to be in place before exploration or production can occur, 2018. Accessed: <https://newsroom.nt.gov.au/mediaRelease/25488>

³ Commonwealth of Australia, 2021. 'Unlocking the Beetaloo: the Beetaloo Strategic Basin Plan'.

⁴ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory *Final Report*, p.451-452.

⁵ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory *Final Report*, p.431.

Failure to achieve regulatory separation

ALEC remains seriously concerned that regulatory separation has not occurred, with the Department of Industry, Tourism and Trade (DITT) still maintaining key responsibilities around the regulation of fracking. The Pepper Inquiry was very clear in Recommendation 14.34, stating:

“That prior to the grant of any further exploration approvals, in order to ensure independence and accountability, there must be a clear separation between the agency with responsibility for regulating the environmental impacts and risks associated with any onshore shale gas industry and the agency responsible for promoting that industry”.⁶

DITT still manages Well Operation Management Plans (WOMPs) which are a key process which can have significant environmental impacts, such as regulating well integrity. WOMPs remain hidden from the public, again undermining the Pepper Inquiry and the need for transparency. While it was established that all environmental regulations of the shale gas industry are to be regulated by the Department of Environment, Parks and Water Security (DEPWS), this is not currently occurring.

Greenhouse gas emissions

Origin estimates that its proposed drilling and fracking process will emit 146,518 to 273,030 tonnes of avoidable greenhouse gases into the atmosphere. This is equivalent to 1.3 percent of the NT's annual per capita emissions for a single exploration drilling EMP and is incompatible with NT government's commitment to move towards net zero greenhouse gas emissions. It is also likely to bring them over the threshold of the large emitters policy. The Federal Government's Beetaloo Strategic Gas Basin plan states that, gas companies like Origin could be drilling and fracking 20-40 new wells annually in the next few years, and 200-300 if the industry heads into full-scale production. That would mean 1-2 million tonnes of greenhouse gases in the next few years, and 10-15 million tonnes every year for a full-scale fracking industry.

Origin is required to assess the cumulative impacts of its proposed activities. Origin only includes its own existing exploration wells as the basis for its cumulative impact assessment, ignoring its own expected future production and publicly reported exploration activity from other gas companies in the Beetaloo. This clear misinterpretation of the cumulative impact assessment requirement allows Origin to mischaracterise the scale of the risks posed to the climate by the expanding industrialisation of the Beetaloo.

Though this EMP is for a smaller scale exploration drilling project, the much larger climate implications of origin's production plans must be taken into account when assessing the appropriateness of this project, as working towards production is the sole purpose of the proposed activity. The NT doesn't yet have a greenhouse gas policy relating to fracking, so there are no obligations on Origin to reduce or offset the carbon emissions from its fracking

⁶ Scientific Inquiry into Hydraulic Fracturing in the Northern Territory *Final Report*, p.431.

plans. This situation poses an unacceptable risk to the global climate, and approving the EMP would significantly undermine the Territory's target of net zero emissions by 2050.

Kind Regards,

Hannah Ekin,

Central Australian Frack Free Coordinator

Warburton, Graham – Friday, 04 February 2022 – 11:10:26

Subject	Objection to Origin EMP for EP 98 & 76
From	Graham Warburton
Sent	2/4/2022 11:10:26 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Graham Warburton
Darawank, New South Wales, 2428, Australia

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Please reply to Graham Warburton at *****.

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Watt, Duncan – Thursday, 03 February 2022 – 22:14:54

Subject	Objection to Origin EMP for EP 98 & 76
From	Duncan Watt
Sent	2/3/2022 10:14:54 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Duncan Watt via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Duncan provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Duncan Watt at *****,

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Weir, Sharon – Wednesday, 09 February 2022 – 11:03:50

Subject	Objection to Origin EMP for EP 98 & 76
From	Sharon Weir
Sent	2/9/2022 11:03:50 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Sharon Weir via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Sharon provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Sharon Weir at *****.

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West, Margaret – Saturday, 05 February 2022 – 12:01:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Margaret West
Sent	2/5/2022 12:01:40 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Margaret West
Nightcliff, Northern Territory, 0810, Australia

This email was sent by Margaret West via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Margaret provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Margaret West at *****.

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Westfold, Jessica – Wednesday, 02 February 2022 – 10:44:40

Subject	Objection to Origin EMP for EP 98 & 76
From	Jessica Westfold
Sent	2/2/2022 10:44:40 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear that this plan is not in line with the wishes of local communities, which I believe need to be respected.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Jessica Westfold

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Please reply to Jessica Westfold at *****.

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Wheatley, Val – Friday, 04 February 2022 – 21:21:51

Subject	Objection to Origin EMP for EP 98 & 76
From	Val Wheatley
Sent	2/4/2022 9:21:51 PM

I wholeheartedly support the following statement. I am deeply concerned about the destructiveness of fracking to our environment. We are in a catastrophic climate emergency due to global warming. All involvement with gas should be ceased immediately.

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Val Wheatley via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Val provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Val Wheatley at *****.

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Wheaton, Ian – Wednesday, 09 February 2022 – 11:19:58

Subject	Objection to Origin EMP for EP 98 & 76
From	Ian Wheaton
Sent	2/9/2022 11:19:58 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,

Ian Wheaton

Flagstaff Hill, South Australia, 5159, Australia

This email was sent by Ian Wheaton via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Ian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Ian Wheaton at *****.

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Whittaker, Kym – Wednesday, 09 February 2022 – 20:18:38

Subject	Objection to Origin EMP for EP 98 & 76
From	Kym Whittaker
Sent	2/9/2022 8:18:38 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Kym Whittaker
Charlton, Queensland, 4350, Australia

This email was sent by Kym Whittaker via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Kym provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Kym Whittaker at *****.

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Wilde, Coral – Tuesday, 08 February 2022 – 12:39:13

Subject	Objection to Origin EMP for EP 98 & 76
From	Coral Wilde
Sent	2/8/2022 12:39:13 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Coral Wilde

This email was sent by Coral Wilde via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Coral provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Coral Wilde at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Williams, Colleen – Thursday, 10 February 2022 – 01:57:43

Subject	Objection to Origin EMP for EP 98 & 76
From	Colleen Williams
Sent	2/10/2022 1:57:43 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Colleen Williams
Maddington, Western Australia, 6109, Australia

This email was sent by Colleen Williams via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Colleen provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Colleen Williams at *****.

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To learn more about web protocol RFC 3834 visit: <https://tools.ietf.org/html/rfc3834>

Williams, Roma – Thursday, 03 February 2022 – 19:15:53

Subject	Objection to Origin EMP for EP 98 & 76
From	Roma Joy Williams
Sent	2/3/2022 7:15:53 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

This email was sent by Roma Joy Williams via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Roma Joy provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Roma Joy Williams at *****.

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Williamson, Gillian – Wednesday, 09 February 2022 – 06:16:05

Subject	Objection to Origin EMP for EP 98 & 76
From	Gillian Williamson
Sent	2/9/2022 6:16:05 AM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians. This is an urgent ethical and moral dilemma. You should not be even thinking of this given the dire circumstances and lack of time in which to address.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gillian Williamson
Bonnie Doon, Victoria, 3720, Australia

This email was sent by Gillian Williamson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Gillian provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Gillian Williamson at *****.

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Wilson, Scott – Friday, 04 February 2022 – 09:37:09

Subject	Support towards Origin EMP for EP 98 & 76
From	Scott Wilson
Sent	2/4/2022 9:37:09 AM

I am writing to show support for the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin is a competent and professional organisation that has the knowledge, skills and resources to execute the plan effectively and efficiently and the project will be beneficial for all.

Please approve the Environmental Management Plan because the risks involved are minimal, it is a well established and professional industry and will create jobs and economic prosperity for the region's. It is clear that these EMPs do meet the requirements set down in the Petroleum (Environment) Regulations 2016.

Please accept this submission and approve the grant of this EMP.

Yours sincerely,
Scott Wilson
Blue Haven, New South Wales, 2262, Australia

This email was sent by Scott Wilson via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Scott provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Scott Wilson at *****.

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Winnell, Jodie – Tuesday, 01 February 2022 – 19:21:20

Subject	Objection to Origin EMP for EP 98 & 76
From	Jodie Winnell
Sent	2/1/2022 7:21:20 PM

I am writing to strongly object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require 525 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Jodie Winnell
Williamstown, Victoria, 3016, Australia

This email was sent by Jodie Winnell via Do Gooder, a website that allows people to contact you regarding issues they consider important. In accordance with web protocol RFC 3834 we have set the FROM field of this email to our generic no-reply address at *****, however Jodie provided an email address (*****) which we included in the REPLY-TO field.

Please reply to Jodie Winnell at *****.

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Winterbottom, Harry – Thursday, 03 February 2022 – 16:10:22

Subject	Fracking will solve no problems and will speed up the planet's destruction
From	Harry Winterbottom
Sent	2/3/2022 4:10:22 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Harry Winterbottom

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Please reply to Harry Winterbottom at *****.

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York, Gae – Friday, 04 February 2022 – 14:32:33

Subject	Objection to Origin EMP for EP 98 & 76
From	Gae York
Sent	2/4/2022 2:32:33 PM

I am writing to object to the Origin Energy plan for 4 new exploration wells in EPs 98 & 76 that are currently on public exhibition.

It is clear Origin does not have a social licence to operate from Territorians.

Please reject the Environmental Management Plan because of the risks involved and the inadequacy of the science. It is clear that these EMPs do not meet the requirements set down in the Petroleum (Environment) Regulations 2016.

I am particularly concerned about the many risks the proposal poses to the environment, including cumulative risks of this project in the context of other threatening processes, that have not been properly addressed.

I am particularly concerned that the plan will:

- Require at least 220 million litres of water for fracking and drilling
- Create large open water storages full of toxic wastewater
- Produce 270,000 tonnes of greenhouse gases, 1.3% of Territory emissions
- Clear vegetation and threaten the Gouldian Finch
- Put at risk groundwater in the Lake Woods catchment

I also feel it is particularly important to note that Traditional Owners within Origin lease areas have raised serious concerns about inadequate consent processes. I hope that a proper process is now undertaken that fully meets their aspirations for participatory decision-making.

Please accept this submission and refuse the grant of this EMP.

Yours sincerely,
Gae York

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Please reply to Gae York at *****.

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