

From: [REDACTED]
Sent: Fri, 17 Mar 2023 02:40:22 +0000
To: Regulatory Submissions (Shared Mailbox)
Cc: [REDACTED]; [REDACTED]; barossa regulatory
Subject: Confidential: Santos General Direction 1898 Report #9
Attachments: Santos to NOPSEMA General Direction 1898 Progress Report WEEK 9_FINAL.pdf
Categories: [REDACTED]

CONFIDENTIAL

Dear [REDACTED] and [REDACTED],

On behalf of Santos and Barossa Joint Venture Parties, please find attached Progress Report #9 on General Direction 1898.

Kind regards

[REDACTED]

Santos

m. [REDACTED]

Santos Ltd A.B.N. 80 007 550 923

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17 March 2023

CONFIDENTIAL

[REDACTED]
[REDACTED]
NOPSEMA
Level 8, 58 Mounts Bay Road
Perth WA 6000

Dear [REDACTED]

We refer to NOPSEMA's General Direction dated 13 January 2023 (**Direction**) issued under section 574 of the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* (Cth) in relation to the Barossa Gas Export Pipeline Installation Environment Plan (**EP**). The Direction was issued to Santos NA Barossa Pty Ltd, SK E&S Australia Pty Ltd and Santos Offshore Pty Ltd as the registered holders of Pipeline Licence NT/PL5.

Pursuant to Direction 4, 'the registered holders must submit progress reports to NOPSEMA detailing progress in undertaking the actions required by Directions 2 and 3 every 7 days from the date of this Direction, until those Directions have been met'.

We note NOPSEMA's reference to the MOC process within the Explanatory Statement and provide an update in respect of that specifically.

To date, Santos has submitted progress reports dated 20 and 27 January; 03, 10, 17 and 24 February; 04 and 10 March 2023 pursuant to Direction 4.

The latest report is annexed to this letter.

Should you require any further information, please let us know.

Yours sincerely

[REDACTED]
On behalf of Santos NA Barossa Pty Ltd, as Operator for and on behalf of the Barossa Joint Venture Parties

**CC JERA Barossa Pty Ltd
SK E&S Australia Pty Ltd**

Annexure

No.	Action Required	Status	Anticipated Completion Date
Direction 1 <i>The registered holders must notify NOPSEMA of any future activities covered by the Barossa Gas Export Pipeline Installation Environment Plan (EP) that are to commence at least 10 days before the activity commences.</i>			
1.	Notify NOPSEMA of any future activities covered by the EP that are to commence at least 10 days before the activity commences.	The previously reported marine survey occurred from 10 to 14 March 2023 without incident. Stakeholders have been notified that the survey has concluded (Appendix 1).	N/A
Direction 2 <i>The registered holders must undertake and complete an assessment to identify any underwater cultural heritage places along the Barossa pipeline route (Pipeline Route) to which people, in accordance with Indigenous tradition, may have spiritual and cultural connections that may be affected by the future activities covered by the EP (the assessment), as follows:</i> <ul style="list-style-type: none"> a) <i>The assessment is to be undertaken by suitably qualified and independent experts with relevant experience and research credentials (experts).</i> b) <i>In undertaking the assessment, the experts must:</i> <ul style="list-style-type: none"> i. <i>obtain information from people and/or organisations who have, in accordance with Indigenous tradition, spiritual and cultural connections to any underwater cultural heritage places along the Pipeline route that may be affected by the activities; and</i> ii. <i>record and have regard to the information obtained.</i> c) <i>The assessment must be recorded in a report that is to be provided on completion to:</i> <ul style="list-style-type: none"> i. <i>people and/or organisations who provided information under paragraph (b)(i) above; and</i> ii. <i>NOPSEMA.</i> 			
2.	Undertake an assessment to identify any underwater cultural heritage places along the Pipeline Route. The assessment must be undertaken by suitably qualified and independent experts with relevant experience and research credentials.	Wessex Archaeology Ltd (Wessex) advises that their assessment continues, and a draft report is anticipated by ~27 April 2023.	TBC
3.	The experts must: <ul style="list-style-type: none"> i. obtain information from people and/or organisations who have, in accordance with Indigenous tradition, spiritual and cultural connections to any underwater cultural heritage places along the Pipeline Route that may be affected by the activities; and 	Independent expert, anthropologist Dr Stephanie Rusden, part of Dr Corrigan's team, advises that they will be continuing to progress their cultural heritage assessment through collection of stories, song lines and oral histories relating to any spiritual and cultural connections and any underwater cultural heritage places during a visit to the Tiwi Islands in the week of 20 March 2023.	TBC

No.	Action Required	Status	Anticipated Completion Date
	ii. record and have regard to the information obtained.		
4.	Provide a report containing the assessment to: i. people and/or organisations who provided information under Direction 2, paragraph (b)(i); and ii. NOPSEMA.	Nothing to report at present.	N/A
<p style="text-align: center;">Direction 3</p> <p><i>Following the completion of the assessment required by Direction 2, if any underwater cultural heritage places along the Pipeline Route to which people, in accordance with Indigenous tradition, may have spiritual and cultural connections are identified that may be affected by future activities covered by the EP, the registered holders must update the EP. This must include relevant content as required under regulation 13 and regulation 14 of the Offshore Petroleum and Greenhouse Gas Storage (Environment) Regulations 2009 (Environment Regulations), including details and evaluation of impacts and risks (the evaluation) of future activities, including:</i></p> <ul style="list-style-type: none"> <i>a) the methods and results of the evaluation on any identified underwater cultural heritage places along the Pipeline Route to which people, in accordance with Indigenous tradition, may have spiritual and cultural connections identified in undertaking Direction 2;</i> <i>b) details of the control measures (if any) adopted to demonstrate that the environmental impacts and risks of the activity will be reduced to as low as reasonably practicable (ALARP) and be of acceptable levels;</i> <i>c) a description of any other legislative requirements that apply to the activity and a demonstration of how those will be met; and</i> <i>d) how any information obtained from people and / or organisations who provided information under paragraph 2(b)(i) above, has been taken into account in the evaluation, and in determining control measures.</i> 			
5.	Assuming that any underwater cultural heritage places along the Pipeline Route are identified that may be affected by future activities covered by the EP, update the EP to include an updated environmental assessment pursuant to regulations 13 and 14 of the Environment Regulations.	Nothing to report at present.	N/A

Explanatory Statement

- Santos commenced its Management of Change (MoC) relating to the assessment of underwater cultural heritage places on 3 January 2022 (activities included in this and previous progress reports).

Other Related Matters

- Santos wrote to NOPSMEA on 15 February 2023 regarding pipeline installation activities outside of the Expected Period documented in the Barossa Gas Export Pipeline Installation Environment Plan (Revision 3) without contravening Regulation 7(1), Regulation 17(5), or Regulation 17(6). NOPSEMA responded to the letter on 22 February 2023. Santos is currently considering the letter.
- Santos received a letter of 8 March 2023 and email of 13 March 2023. Responses are provided as Appendix 2 and 3.
- Santos will provide NOPSEMA with responses to the Final GEP EP Inspection Report conclusions 3589-C1 and 2589-C2 by 23 March 2023.

Annexure

Appendix 1: Final GEP EP survey weekly update (#6) sent 14 March 2023

From: Consultation, Santos
Subject: Barossa Marine Survey - Weekly Update #6
Date: Tuesday, 14 March 2023 4:05:39 PM
Attachments: Barossa Marine Survey Notice Feb 2023.pdf
 image002.png

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email.

Barossa Marine Survey - Weekly Update #6

Date issued:

Tuesday, 14 March 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine survey has been completed in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA).

The survey was carried out from a vessel (Bhagwan K) during daylight hours with survey equipment towed from the vessel's aft. There was no construction activity involved and the seabed was not contacted.

The survey was conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	12° 01.4' South	129° 54.5' E
End	09° 49.2' South	130° 15.8' E

Look Back:

The marine survey has now concluded.

Look Ahead:

None for this marine survey.

Communications:

This is the final Barossa marine survey weekly update.

Santos will continue to provide updates on the Barossa Development through its Quarterly Update or future activity notifications.

Should you require any further information or have a comment on the survey, please contact Santos on 1800 267 600 or Offshore.Consultation@santos.com

From: Consultation, Santos
Sent: Tuesday, 7 March 2023 12:15 PM
Subject: Barossa Marine Survey - Weekly Update #5

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email.

Barossa Marine Survey - Weekly Update #5

Date issued:

Tuesday, 7 March 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine surveys will be conducted in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). Previous updates advised that a survey is scheduled to occur nominally between 22 February and 5 March 2023. Due to inclement weather the survey was unable to be undertaken during this period. The survey is now scheduled to commence tomorrow, 8 March 2023.

The survey will be carried out from a vessel (Bhagwan K) during daylight hours with survey equipment towed from the vessel's aft. There will be no construction activity involved and the seabed will not be contacted.

The survey will be conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	12° 01.4' South	129° 54.5' E
End	09° 49.2' South	130° 15.8' E

Look Back:

N/A. Vessel not yet within the survey operational area.

Look Ahead:

Subject to favourable weather conditions, the Bhagwan K is scheduled to commence the survey tomorrow, 8 March 2023.

Once the vessel enters the operational area, survey activities will commence at the southern end of the route shown in the attached notice. The vessel will travel north along the route at an average speed of ~5 knots. Survey activities will end at the northern end of the pipeline route. The vessel will also complete a number of tie-in survey lines and may need to duplicate the survey over some sections, dependent on data quality.

Vessel Details:

The Bhagwan K (below) is a Darwin-based utility vessel regularly used for offshore industry support work, including marine surveys. It is 24m in length and has a regular crew of four. A Santos representative will also be onboard for the survey duration. Other vessels are requested to maintain a safe distance from the survey vessel which will have limited manoeuvrability while undertaking the work. Contact details for the vessel are as follows:

Call Sign	VHLC
Maritime Mobile Service Identity (MMSI)	503434500
Bridge	VHF channels 10 and 16

Communications:

The Santos representative on the vessel will be contactable via its radio communication system. Anyone without this radio capability, seeking to urgently contact Santos about the survey, should call 1800 267 600 which is a manned 24-hour service.

Should you require any further information or have a comment on the survey please contact Santos on the same telephone number, 1800 267 600, or via email at Offshore.Consultation@santos.com

The next weekly update will be provided on 14 March.

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email.

Barossa Marine Survey - Weekly Update #4

Date issued:

Tuesday, 28 February 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine surveys will be conducted in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). Previous updates advised that a survey is scheduled to occur nominally between 22 February and 5 March 2023. Due to inclement weather the survey is yet to commence.

The survey will be carried out from a vessel (Bhagwan K) during daylight hours with survey equipment towed from the vessel's aft. There will be no construction activity involved and the seabed will not be contacted.

The survey will be conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	12° 01.4' South	129° 54.5' E
End	09° 49.2' South	130° 15.8' E

Look Back:

N/A. Vessel not yet within the survey operational area.

Look Ahead:

Due to inclement weather the vessel was unable to commence activities within the survey operational area on Sunday, 26 February 2023, as previously advised in Weekly Update #3. A new indicative start date will be advised when available.

Once the vessel enters the operational area, survey activities will commence at the southern end of the route shown in the attached notice. The vessel will travel north along the route at an average speed of ~5 knots. Survey activities will end at the northern end of the pipeline route. On its return journey the vessel will then complete a number of tie-in survey lines and may need to duplicate the survey over some sections, dependent on data quality.

Vessel Details:

The Bhagwan K (below) is a Darwin-based utility vessel regularly used for offshore industry support work, including marine surveys. It is 24m in length and has a regular crew of four. A Santos representative will also be onboard for the survey duration. Other vessels are requested to maintain a safe distance from the survey vessel which will have limited manoeuvrability while undertaking the work. Contact details for the vessel are as follows:

Call Sign	VHLC
Maritime Mobile Service Identity (MMSI)	503434500
Bridge	VHF channels 10 and 16

Communications:

The Santos representative on the vessel will be contactable via its radio communication system. Anyone without this radio capability, seeking to urgently contact Santos about the survey, should call 1800 267 600 which is a manned 24-hour service.

Should you require any further information or have a comment on the survey please contact Santos on the same telephone number, 1800 267 600, or via email at Offshore.Consultation@santos.com

The next weekly update will be provided on 7 March.

From: Consultation, Santos

Sent: Wednesday, 22 February 2023 9:30 AM

Subject: Barossa Marine Survey - Weekly Update #3

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email.

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Barossa Marine Survey - Weekly Update #3

Date issued:

Wednesday 22 February 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine surveys will be conducted in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). Previous updates advised that a survey is scheduled to occur nominally between 22 February and 5 March 2023. Due to vessel availability, the survey is now scheduled to start on 26 February 2023.

The survey will be carried out from a vessel (Bhagwan K) during daylight hours with survey equipment towed from the vessel's aft. There will be no construction activity involved and the seabed will not be contacted.

The survey will be conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	12° 01.4' South	129° 54.5' E
End	09° 49.2' South	130° 15.8' E

Look Back:

N/A. Vessel not yet within the survey operational area.

Look Ahead:

The vessel is currently expected to commence activities within the survey operational area on Sunday, 26 February 2023. Survey activities will commence at the southern end of the route shown in the attached notice.

The vessel will travel north along the route at an average speed of ~5 knots. Survey activities will end at the northern end of the pipeline route. On its return journey the vessel will then complete a number of tie-in survey lines and may need to duplicate the survey over some sections, dependent on data quality.

Vessel Details:

The Bhagwan K (below) is a Darwin-based utility vessel regularly used for offshore industry support work, including marine surveys. It is 24m in length and has a regular crew of four. A Santos representative will also be onboard for the survey duration. Other vessels are requested to maintain a safe distance from the survey vessel which will have limited manoeuvrability while undertaking the work. Contact details for the vessel are as follows:

Call Sign	VHLC
Maritime Mobile Service Identity (MMSI)	503434500

Bridge	VHF channels 10 and 16
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Communications:

The Santos representative on the vessel will be contactable via its radio communication system. Anyone without this radio capability, seeking to urgently contact Santos about the survey, should call 1800 267 600 which is a manned 24-hour service.

Should you require any further information or have a comment on the survey please contact Santos on the same telephone number, 1800 267 600, or via email at Offshore.Consultation@santos.com

The next weekly update will be provided on 28 February.

From: Consultation, Santos
Sent: Tuesday, 14 February 2023 4:03 PM
Subject: Barossa Marine Survey - Weekly Update #2

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email. Weekly Update #1, issued on 8 February, is also attached. Please see weekly update #2 below.

Barossa Marine Survey - Weekly Update #2

Date issued:

Tuesday 14 February 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine surveys will be conducted in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). A survey is scheduled to occur nominally between 22 February and 5 March 2023.

The survey will be carried out from a vessel (Bhagwan K) during daylight hours with survey equipment towed from the vessel's aft. There will be no construction activity involved and the seabed will not be contacted.

The survey will be conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	09° 49.2' South	130° 15.8' E
End	12° 01.4' South	129° 54.5' E

Look Back:

N/A. Vessel not within the survey operational area until 22 February 2023.

Look Ahead:

N/A. Vessel not within the survey operational area until 22 February 2023.

Vessel Details:

The Bhagwan K (below) is a Darwin-based utility vessel regularly used for offshore industry support work, including marine surveys. It is 24m in length and has a regular crew of four. A Santos representative will also be onboard for the survey duration. Contact details for the vessel are as follows:

Call Sign	VHLC
Maritime Mobile Service Identity (MMSI)	503434500
Bridge	VHF channels 10 and 16

Communications:

The next weekly update will be provided on 21 February.

Should you require any further information or have a comment on the survey, please contact Santos on 1800 267 600 or Offshore.Consultation@santos.com

From: Consultation, Santos
Sent: Wednesday, 8 February 2023 2:36 PM
Subject: Barossa Marine Survey - Weekly Update #1

Dear stakeholder,

Santos provided the attached notice of proposed Barossa marine surveys on 1 February 2023, which included a commitment to provide weekly status updates via email. The following is the first weekly update.

Barossa Marine Survey - Weekly Update #1

Date issued:

Wednesday 8 February 2023

Activity Summary:

The Barossa Gas Export Pipeline (GEP) marine surveys will be conducted in accordance with an Environment Plan (EP) accepted by the National Offshore Petroleum Safety and Environmental Management Authority (NOPSEMA). A survey is scheduled to occur nominally between 22 February and 5 March 2023.

The survey will be carried out from a vessel during daylight hours with survey equipment towed from the vessel's aft. There will be no construction activity involved and the seabed will not be contacted.

The survey will be conducted along a route of approximately 260 kilometres (140 nautical miles) between the below coordinates:

Route	Latitude	Longitude
Start	09° 49.2' South	130° 15.8' E
End	12° 01.4' South	129° 54.5' E

Look Back:

N/A. Vessel not within the survey operational area until 22 February 2023.

Look Ahead:

N/A. Vessel not within the survey operational area until 22 February 2023.

Vessel Details:

Vessel details will be provided closer to the commencement of activities, along with the contact details for the Santos representative.

Communications:



