

Santos QNT Pty Ltd
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Environment Division
Department of Environment and Natural Resources
Northern Territory Government
Level 1, Arnhemica House, 16 Parap Road, Parap NT 0820
GPO Box 3675, Darwin NT 0801

22 September 2019

Dear Mr. Purdon,

Santos QNT Pty Ltd (Santos) is the operator of exploration permits (EP) 161, located approximately 350 km south-east of Katherine in the Northern Territory (NT). On 12 December 2018, Santos received formal advice that the Environmental Management Plan: *Water Bore Monitoring Program - Tanumbirini South, Inacumba North & Inacumba South* (Document Number: MAB-PLN-004, DPIR ref: E2018/0024-0010), referred to herein as the "EMP", had been approved.

In accordance with Regulation 22 the Petroleum (Environment) Regulations Santos is proposing to modify the regulated activity to include the installation of additional groundwater bores and undertake the associated monitoring.

Details of the Modification

Santos is proposing to modify the EMP to include one additional groundwater bores. This modification encompasses the installation of one Impact Monitoring Bore and undertake the associated monitoring.

The impact monitoring bore will be constructed to comply with the general intent of the *Draft Code of Practice for Petroleum Activities in the Northern Territory and Preliminary Guideline: Groundwater Monitoring Bores for Exploration Petroleum Wells in the Beetaloo Sub-basin*. Groundwater monitoring will be undertaken for the water supply bore the Code.

Scope of Works

The modification seeks to construct the Impact Monitoring bore to monitor the groundwater present within the Bukalalra Sandstone immediately down gradient from the approved Inacumba 1/1H exploration well. The surface location of the monitoring bore is entirely within the area of land cleared for the approved Inacumba 1/1H exploration well. The water bore will be within 50 metres of the Inacumba 1/1H well and optimised to comply with NT guidelines. The approximate location of the new impact monitoring bore is shown in Table 1 below.

Table 1: Location and Type of Monitoring Bores

Water Bore	Type	Latitude	Longitude
Inacumba North Impact 2	Impact Monitoring	-16.516	134.842

Environmental Impact

The additional activities and associated risk profile are identical to that covered by the current and approved EMP. The scope modification will not result in an increase in environmental risk and there is no additional land clearing proposed.

The risk mitigation controls outlined in the existing EMP are identical and will not require any amendment to accommodate the additional scope. The additional minor scope is covered under the existing security agreements associated with this area.

Cultural Heritage

The additional activities are located on land that has undergone cultural heritage clearance, sacred site avoidance clearance and AAPA certification. The scope of works and the location of all proposed activities, including the drilling of groundwater monitoring bores are covered by AAPA Certificate C2018/105 and AAPA Certificate C2019/043 (provided under separate cover on 20 May 2019). These approval certificates cover the proposed works including 'water bore installation'.

Stakeholder Engagement

Santos QNT Pty Ltd has continued to engage with key stakeholders on an ongoing basis. Contact has been maintained as per the existing Land Access Agreement (LAA) and in accordance with the LAA, the landholder will be notified of these works.

If you require any further information or have any queries please don't hesitate to contact me via david.close@santos.com or on (08) 8116 7897.

Yours Sincerely,



David Close
General Manager – Onshore New Ventures