



# Yara Pilbara Nitrates

## 2023 Annual Compliance Report

### EPBC 2008/4546

### Technical Ammonium Nitrate Plant

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<b>Document Custodian</b>	Environmental Superintendent
<b>Document Approver</b>	Plant Manager

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2023 Annual Compliance Report  
EPBC 2008/4546  
Technical Ammonium Nitrate Plant

06-10-2023    650-200-ACR-YPN-0012    Rev 0

### Declaration of Accuracy

Yara Pilbara Nitrates Pty Ltd (YPN) is pleased to submit this Annual Compliance Report as per Condition 3 of the EPBC 2008/4546 Approval Decision (dated 14 September 2011) and Condition 3 of the directed variation (dated 12 September 2017) requiring reporting to 30 June to be submitted by 6 October each year.

In making this declaration, I am aware that sections 490 and 491 of the *Environment Protection and Biodiversity Conservation Act 1999* (Cth) (EPBC Act) make it an offence in certain circumstances to knowingly provide false or misleading information or documents. The offence is punishable on conviction by imprisonment or a fine, or both. I declare that all the information and documentation supporting this compliance report is true and correct in every particular. I am authorised to bind the approval holder to this declaration and that I have no knowledge of that authorisation being revoked at the time of making this declaration.

Signed .....  
 Full Name            Ty Hibberd  
 Position             Environment and Quality Manager  
 Organisation        Yara Pilbara Nitrates Pty Ltd  
                               ABN 33127391422  
  
 Date                    06/10/2023

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## 1 Introduction

### 1.1 Purpose

The purpose of this Annual Compliance Report (ACR) is to assess compliance with all conditions of the *Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act)* approval decision 2008/4546 (**EPBC 2008/4546**); issued 14 September 2011 for the Yara Pilbara Nitrates Pty Ltd (**YPN**) Technical Ammonium Nitrate (**TAN**) production facility (**TAN Plant**); and administer by the Department of Climate Change, Energy, the Environment and Water (**DCCEEW**) (herein "**the Department**"). The TAN Plant is located on Lot 3017 within the Burrup Strategic Industrial Area on the Burrup Peninsula, Western Australia.

EPBC 2008/4546 Conditions have been varied by four (4) separate variations, issued in accordance with Section 143 of the EPBC Act:

- Variation to Conditions 8(d), 10 and 11, dated 18 December 2013;
- Variation to Condition 10(c)iv, dated 10 February 2014;
- Directed variation to Condition 3, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14 (delete), substitute with Conditions 3, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14 and add Conditions 3A, 7 A, 9A, 9B, 10A, 11 A and 11 B, dated 12 September 2017; and
- Variation to Condition 9 and 9A, dated 24 March 2020.

Condition 3(a) of the revised approval issued on 12 September 2017 states:

*By 6 October each year, the person taking the action must:*

- i. Publish a report on their website addressing compliance with each of the conditions of this approval (for the reporting period 1 July of the previous year to 30 June of the reporting year), including implementation of any management plans and monitoring programs as specified in the conditions including an analysis of monitoring data required under condition 9A and 10A that has been collected during the reporting period; and*
- ii. Provide documentary evidence providing proof of the date of publication to the Department.*

In accordance with revised Condition 3 this 2023 Annual Compliance Report (**ACR**) addresses the 12-month period 1 July 2022 to 30 June 2023 and is to be published on YPN's website by 6 October 2023.

Preparation of the ACR has been guided by the Annual Compliance Report Guidelines (Commonwealth of Australia, 2014).

### 1.2 Project Details

The TAN Plant has a production capacity of 350,000 tonnes per annum (**TPA**) or 915 tonnes per day (**TPD**) of TAN. The TAN Plant comprises three major process units, each producing a separate product in the manufacturing process:

1. Nitric Acid plant to convert ammonia and atmospheric air into Nitric Acid (**NA**). The NA plant has a capacity of 760 TPD as 100% weight. The main feedstock, ammonia, shall be delivered from the adjacent ammonia plant.



2. Ammonium Nitrate (**AN**) Solution plant to convert ammonia and NA into AN solution. This AN wet section has a capacity of 965 TPD in balance with nitric acid production capacity.
3. TAN plant to convert AN solution into TAN prill (final product). This is a dry section for production of TAN prill (0.7 and 0.8 kg/m<sup>3</sup> density) with a capacity of 915 TPD. Surplus AN solution shall be sold as liquid.

The TAN Plant also has storage, loading and transport facilities, including an incoming liquid ammonia pipeline, bulk and bagged TAN storage, bulk loading system, bagging unit and truck loading.

The project is adjacent to the Yara Pilbara Fertiliser plant operated by Yara Pilbara Fertilisers Pty Ltd (**YPF**), which is the source of the liquid ammonia.

### 1.3 ACR Public Availability

This 2023 ACR is to be placed on the YPN website for the life of the Project. At the time of publication this 2023 ACR is available at:

<https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/>

A URL link to the uploaded report will be sent to the Department's Compliance and Enforcement Branch through its [EPBCMonitoring@environment.gov.au](mailto:EPBCMonitoring@environment.gov.au) email address.



## 2 Current Status

During the reporting period (1<sup>st</sup> July 2022 - 30<sup>th</sup> June 2023) the Nitric Acid plant operated between the following periods:

- 1<sup>st</sup> July 2022 (start of reporting period) to the 5<sup>th</sup> of July;
- 6<sup>th</sup> July to the 1<sup>st</sup> of August;
- 3<sup>rd</sup> to the 4<sup>th</sup> of August;
- 5<sup>th</sup> to the 27<sup>th</sup> of August;
- 3<sup>rd</sup> September to the 28<sup>th</sup> of January;
- 31<sup>st</sup> January to the 28<sup>th</sup> of February; and
- 26<sup>th</sup> May to the 13<sup>th</sup> of June.

The AN solution and Prill plants (U31/32) operated for a similar timeframe.

The total amount of TAN produced during the 2022-23 financial year was 238,640 tonnes.

YPN was issued an Environmental Operating Licence under Part V of the *Environmental Protection Act 1986* (EP Act) on the 20<sup>th</sup> April 2020 (Licence No. L9223/2019/1). Of relevance to EPBC 2008/4546 is the conditions regarding limits on emissions to air. Environmental monitoring and reporting occurred during the operational period of the TAN Plant.



### 3 Compliance

#### 3.1 Statement of Compliance

The results of the assessment of compliance with EPBC 2008/4546 approval conditions are shown in Table 1.

A total of 15 conditions, comprising of 50 sub-conditions, were assessed. The assessment found the following:

- 1 sub-condition was found to be 'non-compliant';
- 27 sub-conditions were found to be 'compliant';
- 22 sub-conditions were found to be 'not applicable'.

If a condition falls outside of the scope of the current reporting period (1 July 2022 to 30 of June 2023) it is considered Not Applicable (N/A). A sub-category is also provided in Table 1 to indicate status, i.e. "complete", "not required", "compliant", "in process" (when waiting for a response from the Department), "historical non-compliance" or "N/A - refer below", when the condition is an objective.

As reported in the 2017 ACR Addendum, YPN identified some gaps in evidence, specifically with reference to historic correspondence between YPN and various regulators that have been cited as evidence in previous ACRs. In these cases where YPN did not have the original or a copy of the evidence, but reference to the evidence has been previously made, the evidence was flagged as "not sighted". For this 2023 ACR, where relevant, reference is made to the 2017 ACR Addendum for these historical items and, if appropriate, noted as "complete" (i.e. Compliant - "complete").

In assessing compliance, the following definitions have been used:

Designations	Definition
Compliant	'Compliance' is achieved when all the requirements of a condition have been met, including the implementation of management plans or other measures required by those conditions.
Non-compliant	A designation of 'non-compliant' is given where the requirements of a condition or elements of a condition, including the implementation of management plans and other measures, have not been met.
Not applicable (N/A)	A designation of 'not applicable' is given where the requirements of a condition or elements of a <u>condition fall outside of the scope of the current reporting period</u> . For example, a condition which applies to an activity that has not yet commenced.



### 3.2 EPBC2008/4546 Compliance Table

Table 1 EPBC2008/4546 Compliance Table

Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
1	Within 30 days after the commencement of the action, the person taking the action must advise the Department in writing of the actual date of commencement.	N/A - "complete"	Refer to 2017 ACR, letter sent to SEWPaC on the 17 <sup>th</sup> of February 2013.  YPN sought agreement from the Department that this condition can be considered 'complete' in 2018 EPBC ACR.
2	The person taking the action must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the plan(s) and program(s) required by this approval, and make them available upon request to the Department. Such records may be subject to audit by the Department or an independent auditor in accordance with section 458 of the EPBC Act or used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.	Compliant	Refer to all other items in this table.  Refer to attachments provided.  Further documentation is available upon request by the Department.
3(a)	By 6 October each year, the person taking the action must: <ul style="list-style-type: none"> <li>i. Publish a report on their website addressing compliance with each of the conditions of this approval (for the reporting period 1 July of the previous year to 30 June of the reporting year), including implementation of any management plans and monitoring programs as specified in the conditions, including an analysis of monitoring data required under Condition 9A and 10A that has been collected during the reporting period; and</li> <li>ii. Provide documentary evidence providing proof of the date of publication to the Department.</li> </ul>	Compliant	The 2022 EPBC ACR was published on the YPN website on 6 <sup>th</sup> October 2022, with the Department notified on that date (Attachment 3a (1) and Attachment 3a (2)).  The supporting Air Quality Analysis Report (as per Condition 9A) for the 2022 ACR was completed and published to the YPN website on the 6 <sup>th</sup> of October 2022 (Attachment 3a (2)).  Rock art monitoring (as per Condition 10A) is no longer being undertaken individually due to YPN's existing and ongoing financial commitment to the State Governments Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER). Acceptance that Condition 10A(d) is being met was received from DCCEEW on the 7 <sup>th</sup> of November 2022 (Attachment 3(a) (3)).  The publication of rock art monitoring reports undertaken in DWER's MRAMP is at the discretion of the department. Reports can be found here: <a href="https://www.wa.gov.au/government/document-collections/murujuga-rock-art-strategy-document-collection">https://www.wa.gov.au/government/document-collections/murujuga-rock-art-strategy-document-collection</a>
3(b)	Reports required under Condition 3a) must remain published for the life of the approval unless otherwise advised by the Minister in writing.	Compliant	All previous EPBC 2008/4546 ACR's are available on the YPN website: <a href="https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/">https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/</a> (Attachment 3a (2)).
3A	The person taking the action must advise the Department of a potential or actual non-compliance with these conditions in writing within 7 days of becoming aware of the potential or actual non-compliance.	Compliant	Non-compliances with Condition 9B(a) occurred on the 1 <sup>st</sup> of December 2022 and 24 <sup>th</sup> January 2023. These non-compliance were reported on the 7 <sup>th</sup> of December and 31 <sup>st</sup> of January 2023 (respectively) which is within the 7 day requirement (Attachment 9B(a) (3) and Attachment 9B(a) (4))
4	The person taking the action must ensure that wastewater from the facility meets the requirements set out in Statement 594 for discharges into the Multi User Brine Return Line (MUBRL).	Compliant	Please note Statement 594 applies to its proponent, Water Corporation, and addresses multiple users in the Burrup area (not only YPN). YPN discharges wastewater to its neighboring facility YPF. YPF's Environmental Operating Licence (L9224/2019/1 issued under Part V of the EP Act) reflects the discharge requirements for Statement 594. During the reporting period (1 <sup>st</sup> July 2022 to 30 <sup>th</sup> June 2023) there was no licence limit exceedances for discharge to the MUBRL. Attachment 4 shows laboratory analysis results and continuous data for YPN's discharge during the reporting period.
5	To ensure the protection of listed threatened species and listed migratory species, the person taking the action must only apply larvicide or adulticide within or outside the project area (as shown in Attachment 1) that is an Approved Class 11 insecticide, unless agreed to in writing by the Minister.	Compliant	No mosquito larvicide or adulticide has been applied within the TAN Plant site during the reporting period (confirmed 8 <sup>th</sup> of August 2023).



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
6	To ensure the protection of listed threatened species and listed migratory species, the person taking the action must:	N/A - refer below	Condition objective, sub-conditions refer below.
6(a)	Employ such structures and apparatus as are necessary and agreed by the Western Australian Government to deter birds from entering the contaminated water pond, clean water pond, and sewage wastewater treatment station evaporation pond, as per Statement 870.	Compliant	The Department of Parks and Wildlife (DPaW); now the Department of Biodiversity, Conservation and Attractions (DBCA), confirmed the bird deterrence systems used on site is acceptable on the 25 <sup>th</sup> June 2015 (Attachment 6a). Bird deterrent wires have been installed over contaminated water ponds, clean water ponds, and sewage wastewater treatment evaporation pond (refer to Attachment 6b).
6(b)	Ensure these structures and apparatus are in place prior to commissioning and are maintained for the life of the approval.	Compliant	All ponds during the reporting period had bird deterrent wires in place at approximate 5m spacings as per configuration agreed with DBCA.  Refer to Attachment 6(b) for current photos of deterrents (July 2023) and Environmental Inspection Checklist (Question 12).
7	To ensure the protection of the listed threatened species; listed migratory species and the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, the person taking the action must submit to the Department the management plans mentioned below:	N/A - refer below	Condition objective, sub-conditions refer below.
7(a)	Construction Environmental Management Plan (CEMP), which must be submitted to the Department at least two (2) months prior to construction and must include, but not be limited to, management measures for the following: <ul style="list-style-type: none"> <li>• Air Quality and Dust;</li> <li>• Water Quality;</li> <li>• Erosion Control and Storm Water;</li> <li>• Waste;</li> <li>• Traffic; and</li> <li>• Blasting (if required).</li> </ul>	N/A - "complete"	Refer to the 2017 ACR Addendum, CEMP sent to SEWPaC on the 22 September 2012 and approved on 22 November 2012.  YPN sought the Departments agreement that this condition can be considered 'complete' in 2018 EPBC ACR.
7(b)	Operational Environmental Management Plan (OEMP), must be submitted to the Department at least two (2) months prior to operation and must include, but not be limited to, management measures for the following: <ul style="list-style-type: none"> <li>• Erosion Control and Storm Water;</li> <li>• Water Quality;</li> <li>• Air Quality and Dust;</li> <li>• Waste;</li> <li>• Traffic; and</li> <li>• Blasting (if required).</li> </ul>	N/A - "complete"	As reported in the 2017 ACR Addendum the revised Operational Environmental Management Plan (650-200-PLN-YPN-0001) (OEMP) and revised Emergency Response Management Plan were submitted to the Department for review in December 2016 (approximately 9 months prior to operations commencing – refer to Condition 7[c]).  An amended Operational Environmental Management Plan (OEMP) (including Hazardous Materials Management Plan and Aboriginal Heritage Management Plan prepared to address relevant parts of Condition 7[d]) was submitted to the Department for review and approval on 14 September 2017, approval of the OEMP was received on 15 September 2017.  YPN sought the Departments agreement in 2018 EPBC ACR that this condition can be considered 'complete' as current and future plan revisions are addressed under Conditions 12 and 13.
7(c)	Operations must not commence unless the OEMP is approved by the Minister.	N/A - "complete"	The OEMP was approved on 15 September 2017 with operations commencing the same day (Attachment 7c).  YPN seeks the Departments agreement that this condition can be considered 'complete'.
7(d)	Additional management plans covering both construction and operations, must be submitted to the Department at least two (2) months prior to construction, including: <ul style="list-style-type: none"> <li>• Aboriginal Heritage Management Plan;</li> </ul>	N/A - "complete"	Refer to 2017 ACR Addendum confirmed the approval status of the original Aboriginal Heritage Management Plan (AHMP), approved by SEWPaC on 24 October 2012.



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
	<ul style="list-style-type: none"> <li>Hazardous Materials Management Plan; and</li> <li>Emergency Response Management Plan.</li> </ul>		<p>The OEMP update included updates to the AHMP and Hazardous Materials Management Plan (HMMP).</p> <p>Emergency response is the subject of a separate plan (YPN code 250-500-PLN-000-0003). The original Emergency Response Management Plan (ERMP) was approved in 2012. A revised plan was submitted to the Department in December 2016, with the OEMP (refer to Condition 7[b]).</p> <p>YPN sought the Departments agreement in 2018 EPBC ACR that this condition can be considered 'complete' as current and future plan revisions are addressed under Conditions 12 and 13.</p>
7(e)	Once approved by the Minister, all plans required under Condition 7 must be implemented.	Compliant	<p>Refer to Condition 7(b) and 7(d) regarding plan approval and conditions.</p> <p>All plans referred to in Condition 7 were assessed for implementation status for this audit.</p> <p>Due to the fact that YPN's OEMP is currently under review an independent audit (as per section 12.1.1. of the OEMP) was not completed during the reporting period. An independent audit will occur once the OEMP is finalised and submitted. An internal audit was conducted for the reporting period and the following was found:</p> <p>One (1) commitment was identified as potentially non-conformant within YPN's OEMP:</p> <ul style="list-style-type: none"> <li>Unapproved hazardous materials can be received in the warehouse (i.e. materials that were not approved as per the requirements of the HMMP).</li> </ul> <p>As the majority of actions were assessed as conformant, the OEMP is assessed as satisfactorily implemented. Actions have been raised to correct the non-conformance.</p> <p>The Emergency Management Plan (EMP) is currently being updated and will be submitted to the Department once an internal review has been completed. No changes have been made to the environmental components of the EMP. At the time of submission (confirmed 30<sup>th</sup> August 2023) all actions within the EMP were assessed as conformant (internal assessment in March 2023).</p>
7A	The management plans required under Conditions 7 and 11A must not contain management actions that are inconsistent with these approval conditions or the National Heritage management principles.	Compliant	<p>Refer to Conditions 7 and 11A. Review of the plans by the Department and subsequent approval of plans by the Minister implies consistency with approval conditions and National Heritage (NH) management principles. Furthermore, this assessment has not readily identified any management plan actions that are inconsistent with the seven principles, summarised below for reference.</p> <ol style="list-style-type: none"> <li>Identify, protect, conserve, present and transmit, to all generations, NH values.</li> <li>Use best available knowledge, skills and standards; include ongoing technical and community input to decisions and actions that may have a significant impact on their NH values.</li> <li>Respect all heritage values and seek to integrate government responsibilities.</li> <li>Ensure that NH place use and presentation is consistent with the conservation of their NH values.</li> <li>Make timely and appropriate provisions for community involvement, especially by people who: a) have a particular interest in, or associations with, the place; and b) may be affected by the management of the place.</li> <li>Active participation of Indigenous people in identification, assessment and management is integral to the effective protection of Indigenous heritage values.</li> <li>Provide for regular monitoring, review and reporting on the conservation of NH values.</li> </ol>
8	To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites, the person taking the action must ensure that:	N/A - refer below	Condition objective, sub-conditions refer below.



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
8(a)	There is no unauthorised access by employees or contractors of the person taking the action to the Dampier Archipelago (including Burrup Peninsula) National Heritage Place outside of the project area (shown in Attachment 1) while those employees or contractors are undertaking work duties.	Compliant	YPN maintains a system to authorise access (for monitoring) including access forms and a register (Attachment 8a).  No signs of unauthorised access have been observed in the National Heritage area around the site. No incidents regarding unauthorised access have been identified.
8(b)	Chain mesh fencing of at least 2.5 metres in height is installed around the perimeter of the project site prior to construction.	Compliant	Chain mesh fencing of at least 2.5 metres in height is installed around the perimeter of the project site. The fence was installed prior to construction and is checked twice daily by security.  Refer to Attachment - Site Photos (5 <sup>th</sup> July 2023).
8(c)	Signs of at least 1m <sup>2</sup> in size are attached to fencing at the entrance to the project site and at no less than 50 metre intervals along the fence. These signs must clearly indicate the requirements of Condition 8(a).	Compliant	The required signage is attached to fencing at the entrance/exit to the project site. Due to the 2.5 m high security fencing completely surrounding the rest of the project site, fully restricting access to the National Heritage area, the existing signage at the entrance in combination with the high security fence is sufficient and together are measures which effectively 'go beyond compliance' with respect to the intention of this Condition. Consequently YPN considers the site compliant with the objective of this requirement.  YPN seeks agreement from the Department regarding this assessment and, if necessary to avoid future doubt, will request the condition be amended accordingly (i.e. to signage at entrance only, in combination with the high security fence on the perimeter of the remainder of the Project site).  A recent replacement of turnstiles (late May 2023) at the YPN gatehouse entry has seen the relocation of signs to the exterior of the fence (next to the exit turnstiles). This is due to insufficient space being available to attach the signs to the interior of the fence (Refer to Attachment - Site Photos).
8(d)	The relevant supervisor of the person taking the action must record the names of all those required to access areas containing rock art sites inside the Dampier Archipelago (including Burrup Peninsula) National Heritage Place boundary and is able to provide these records if asked to do so by the Department.	Compliant	Refer to Condition 8(a) - YPN maintains a National Heritage register, which records the names of all those required to access areas containing rock art sites inside the National Heritage area.
8(e)	Any impact the action has on the heritage values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place must be reported to the Department in writing within 72 hours. Impacts may include (but will not necessarily be limited to) any impacts caused by construction activity; vandalism perpetrated by personnel involved in plant construction or operations; spillage of potentially corrosive materials into the Dampier Archipelago (including Burrup Peninsula) National Heritage Place; impacts from blasting activity.	Compliant	No impact on heritage values has been identified in the audit period.
9	To protect the National Heritage Place, particularly the rock art sites, the person taking the action must undertake an air quality monitoring program. The air quality monitoring program must:	N/A - refer below	Condition objective, sub-conditions refer below.
9(a)	Undertake air quality monitoring at three (3) sites as shown in Attachment 2. These sites being sites previously selected, designed, fenced off and used in the original Western Australian Department of Environment and Conservation (WA DEC)/CSIRO air quality monitoring program. <ul style="list-style-type: none"> <li>Site 5 - Burrup Road site;</li> <li>Site 6 - Water tanks site; and</li> <li>Site 7 – Hearson Cove Road site.</li> </ul>	N/A - "complete"	As described in the 2017 ACR Addendum, YPN carried out this (baseline) air quality monitoring program at the indicated off-site locations. However, construction commenced in February 2013 and monitoring commenced in late Q3/early Q4 2013, which was assessed as a non-compliance.  With the non-compliance being historic (related to timing, linked to commencement of construction), this timing element of the requirement could not be remedied.  The program was otherwise implemented and completed as required by the Condition.



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
	<p>The air quality monitoring must be undertaken for a period of not less than 24 months beginning from the <u>commencement of construction</u>. The results of this monitoring will be used to establish <u>baseline data</u> on levels of:</p> <ul style="list-style-type: none"> <li>• Ammonia (NH<sub>3</sub>);</li> <li>• Nitrogen Oxides (NO<sub>x</sub>);</li> <li>• Sulphur Oxides (SO<sub>x</sub>); and</li> <li>• Total suspended particulates (TSP), including dust at those rock art sites.</li> </ul>		<p>Continuation of the air quality monitoring program after the completion of the baseline program required by this Condition is addressed by Condition 9A, below.</p> <p>As the baseline program has been completed and continuing monitoring is addressed by Condition 9A, YPN sought the agreement of the Department in the 2018 EPBC ACR that this condition can now be considered 'complete'.</p>
9(b)	Ensure that the monitoring of air quality at rock art sites is undertaken by a suitably qualified person (Air Quality).	N/A - "complete"	<p>As described in the 2017 ACR Addendum, the review of the ambient air quality monitoring program and preparation of the baseline monitoring report was undertaken by Dr Peter Forster, Strategen-JBS&amp;G (formerly known as Strategen Environmental Consultants Pty Ltd) air quality specialist. Peter has over 25 years' experience in air quality assessments, including monitoring of gaseous, semi-volatile and particulate pollutants.</p> <p>Refer to Condition 9(a) above – this condition could be considered 'complete', on the agreement of the Department.</p>
9(c)	Ensure air quality readings during the twenty four (24) months of baseline monitoring are taken at least four (4) times in every 12 months.	N/A - "complete"	<p>As described in the 2017 ACR Addendum:</p> <ul style="list-style-type: none"> <li>• NH<sub>3</sub>, NO<sub>2</sub> and SO<sub>2</sub> samples were collected for &gt;24 months and at least once in each quarter for each year.</li> <li>• Dust deposition samples were collected for &gt;24 months and at least once in each quarter for each year.</li> <li>• TSP samples were collected for &gt;24 months and at least once in each quarter for each year, from the Water Tanks site only.</li> <li>• A baseline TSP data set was developed from TAN plant boundary monitoring of PM10 for application to all three sites. Those data were collected for &gt;24 months and at least once in each quarter for each year.</li> </ul> <p>Refer to Condition 9(a) above – this condition could be considered 'complete', on the agreement of the Department.</p>
9A	To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites, the person taking the action must ensure:	N/A - refer below	Condition objective, sub-conditions refer below.
9A(a)	Ongoing air quality monitoring is undertaken within 30 days after this condition comes into effect (the date the relevant variation to conditions notice is signed), and until expiry of the approval.	Compliant	<p>Air quality monitoring has continued at sites 5, 6 and 7, with the first monitoring after Condition 9A came into effect (on 12 September 2017) commencing on 14 September 2017. Air Quality monitoring reports are available on the YPN website: <a href="https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/">https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/</a> and a screenshot of the website can be seen within Attachment 9A(a).</p>
9A(b)	Air quality monitoring parameters are monitored at the rock art sites: Site 5 (Burrup Road), Site 6 (Water tanks site) and Site 7 (Hearson Cove Road site) as shown in Attachment 2.	Compliant	<p>This Condition is consistent with the previous, baseline, monitoring locations. Air quality monitoring has continued at sites 5, 6 and 7 as required (refer to the YPN website as provided in Condition 9A[a]).</p> <p>On the 24<sup>th</sup> March 2020 approval was granted to relocated Site 7 (Deep Gorge) to accommodate the development of a board walk at the heritage site Ngajarli (formerly known as Deep Gorge) by Murujuga Aboriginal Corporation (MAC). The approval letter, new conditions and the location of Site 7 can be seen within Attachment 9A(b). On the 8<sup>th</sup> April 2020 Site 7 - Deep Gorge was relocated to Site 7 - Hearson Cove Road site. From this date onward reported results are from this location.</p>



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments															
9A(c)	<p>Monitoring of air quality at rock art sites is undertaken by a suitably qualified person (Air Quality).</p> <p>The air quality monitoring parameters in the table below must be monitored at the frequencies indicated in the table below.</p> <table border="1"> <thead> <tr> <th>Element of air quality to be monitored</th> <th>Specific air quality parameter to be sampled</th> <th>Minimum frequency of monitoring</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Ambient air concentration of gases</td> <td>NH<sub>3</sub> (ammonia)</td> <td rowspan="3">Continuous monitoring for at least 14 consecutive days, every month</td> </tr> <tr> <td>NO<sub>2</sub> (nitrogen oxide)</td> </tr> <tr> <td>SO<sub>2</sub> (sulphur oxide)</td> </tr> <tr> <td>Airborne particulate concentration</td> <td>Total suspended particulates up to 50 µm (TSP)</td> <td>Every 6 days</td> </tr> <tr> <td rowspan="2">Deposited dust</td> <td>Total dust deposition per month (Insoluble Fraction)</td> <td rowspan="2">Quarterly</td> </tr> <tr> <td>Total dust deposition per month (Soluble Fraction)</td> </tr> </tbody> </table>	Element of air quality to be monitored	Specific air quality parameter to be sampled	Minimum frequency of monitoring	Ambient air concentration of gases	NH <sub>3</sub> (ammonia)	Continuous monitoring for at least 14 consecutive days, every month	NO <sub>2</sub> (nitrogen oxide)	SO <sub>2</sub> (sulphur oxide)	Airborne particulate concentration	Total suspended particulates up to 50 µm (TSP)	Every 6 days	Deposited dust	Total dust deposition per month (Insoluble Fraction)	Quarterly	Total dust deposition per month (Soluble Fraction)	Compliant	<p>Refer to Condition 9(b), the continuing ambient air quality monitoring program continues to be overseen by JBS&amp;G (formerly Strategen Environmental Consultants Pty Ltd), with the support of YPN Environmental personnel.</p> <p>Within the audit period, ambient air concentrations of NH<sub>3</sub>, NO<sub>2</sub> and SO<sub>2</sub> have been monitored continuously from the 1<sup>st</sup> July 2022 (Radiellos deployed) to the 30<sup>th</sup> June 2023 (refer to reports on Yara website as provided in Condition 9A[a] for data which has been received to date).</p> <p>Within the audit period, TSP monitoring occurred every six days from the 4<sup>th</sup> July 2022 to the 29<sup>th</sup> June 2023 (refer to reports on Yara website as provided in Condition 9A[a]).</p> <p>Within the audit period, collection of dust deposition (insoluble and soluble fractions) data occurred every month from the 1<sup>st</sup> July 2022 to the 30<sup>th</sup> June 2023 (refer to reports on Yara website as provided in Condition 9A[a]). This is more than what is required within the condition and as such it is deemed that the condition has been met.</p> <p>Refer to condition 9 A(a) for link to website for published results. Please note the correct names for NO<sub>2</sub> and SO<sub>2</sub> are nitrogen dioxide and sulphur dioxide, respectively; i.e. 'oxide' is a typographical error within the approval document.</p>
Element of air quality to be monitored	Specific air quality parameter to be sampled	Minimum frequency of monitoring																
Ambient air concentration of gases	NH <sub>3</sub> (ammonia)	Continuous monitoring for at least 14 consecutive days, every month																
	NO <sub>2</sub> (nitrogen oxide)																	
	SO <sub>2</sub> (sulphur oxide)																	
Airborne particulate concentration	Total suspended particulates up to 50 µm (TSP)	Every 6 days																
Deposited dust	Total dust deposition per month (Insoluble Fraction)	Quarterly																
	Total dust deposition per month (Soluble Fraction)																	
9B	To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites:	N/A - refer below	Condition objective, sub-conditions refer below.															
9B(a)	Emissions of air pollutants during operations must not exceed the limits described in a Licence under Part V of the <i>Environmental Protection Act 1986</i> issued by the Western Australian Government.	Non-compliant	<p>YPN's Licence (L9223/2019/1) stipulates quarterly (Common Stack) and continuous (Nitric Acid Stack (CEMS)) monitoring. This includes (point source) discharge air quality limits (i.e. no ambient air quality limits), as follows:</p> <ul style="list-style-type: none"> <li>• Common stack: <ul style="list-style-type: none"> <li>○ PM – 15 mg/m<sup>3</sup></li> <li>○ NH<sub>3</sub> at – 10 mg/m<sup>3</sup></li> </ul> </li> <li>• Nitric Acid plant stack: <ul style="list-style-type: none"> <li>○ NO<sub>x</sub> (as NO<sub>2</sub>) – 103 mg/m<sup>3</sup></li> <li>○ NH<sub>3</sub> – 0.75 mg/m<sup>3</sup></li> <li>○ N<sub>2</sub>O – 196 mg/m<sup>3</sup></li> </ul> </li> <li>• Nitric Acid plant stack during start-up (2 hour maximum period): <ul style="list-style-type: none"> <li>○ NO<sub>x</sub> (as NO<sub>2</sub>) – 1,540 mg/m<sup>3</sup></li> <li>○ NH<sub>3</sub> – 11.5 mg/m<sup>3</sup></li> </ul> </li> </ul> <p>There was three (3) exceedances of licence limits for the Nitric Acid Stack during the reporting period Attachment 9B(a). All exceedances were reported as per Condition 9B(b).</p>															
9B(b)	If a reporting requirement is triggered for air emissions in the conditions of the Licence issued by the Western Australian Government under Part V of the <i>Environmental Protection Act 1986</i> , the person taking the action must also report to the Department in writing within the same timeframe as reporting is required to be provided to the Western Australian Government.	Compliant	<p>There was three (3) exceedances of licence limits during the reporting period. All exceedances were reported to the Department within seven (7) days of detection.</p> <p>The 1<sup>st</sup> of December (two exceedances) reported on the 7<sup>th</sup> of December 2022 and the 24<sup>th</sup> of January (one exceedance) reported on the 31<sup>st</sup> of January 2023 (Attachment 9B(a)).</p>															



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
10	To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites, the person taking the action must participate in monitoring the rock art by:	N/A - refer below	Condition objective, sub-conditions refer below.
10(a)	Contributing a pro-rata amount annually (in line with that currently utilised by the Western Australian Department of Water and Environmental Regulation, but not exceeding \$15,000/year) for a period of not less than two (2) years from the beginning of construction to the Burrup Rock Art Monitoring Program, which is an independent scientific program of monitoring, to detect any changes in patination, including any discolouration, of the surface of the rock art or the surrounding rock surface.	N/A - "complete"	As discussed in the 2017 ACR Addendum, both the Burrup Rock Art Technical Working Group (BRATWG) and the DWER-managed rock art monitoring program were not active during the previous reporting period and as such, YPN were not able to financially contribute through BRATWG to the DWER-managed rock art monitoring program. Previously YPN had financially contributed, with the first payment being made in 2011. The WA Burrup Rock Art Monitoring Program expired in June 2016.  Also, as discussed in the 2017 ACR Addendum, following monitoring in 2015 and 2016, a report was published by DWER on the BRATWG website in September 2017.  As: <ul style="list-style-type: none"> <li>the timing element of the condition ('for a period of not less than two [2] years from the beginning of construction' i.e. the minimum date for completion of this condition was 13 February 2015); and</li> <li>due to the inclusion of Condition 10A, which addresses ongoing - current and future - rock art monitoring.</li> </ul> YPN sought the agreement of the Department in the 2018 EPBC ACR that this condition can now be considered in effect no longer applicable and does not require further assessment.
10(b)	Revoked – on-going rock art monitoring is now in Condition 10A.	N/A	Not applicable.
10(c)	In addition to the above Condition 10(a) requirements, the person taking the action must provide for additional monitoring of rock art sites in a manner that is consistent with the Burrup Rock Art Monitoring Program. The monitoring of additional rock art sites must meet the following requirements:	N/A - "complete"	Refer to sub-condition 10(c)(iv) and new Condition 10A below. Sub-condition 10(c)(iv) timing is framed from the date of commencement of construction, with the monitoring to occur for at least two years until 13 June 2016. Condition 10A requires ongoing annual monitoring with the first event completed by 31 December 2017.  As: <ul style="list-style-type: none"> <li>previous ACRs have reported on the status of this condition;</li> <li>the timeframe for completion of sub-condition 10(c)(iv); and</li> <li>the capacity of Condition 10A to address ongoing -current and future – monitoring.</li> </ul> YPN sought the agreement of the Department in the 2018 EPBC ACR that this condition be considered in effect no longer applicable and does not require further ongoing assessment.
10(c)(i)	Engage a heritage monitor or other suitably qualified person (Heritage) to survey rock art sites within a two (2) kilometre radius of the project site, to provide advice on any changes to the appearance, or cultural value, of rock art sites within the examined area.	N/A - "complete"	Refer to Condition 10(c) above – this condition could be considered no longer applicable, on the agreement of the Department.
10(c)(ii)	The monitoring must be undertaken in a manner that is consistent with and complementary to the monitoring of rock art sites undertaken through the Burrup Rock Art Monitoring Program. If agreed by Department of Water and Environmental Regulation the monitoring of additional rock art sites may be integrated with the Burrup Rock Art Monitoring Program, with the person taking the action providing full contribution to the Department of Water and Environmental Regulation for the additional site monitoring.	N/A - "complete"	Refer to Condition 10(c) above – this condition could be considered no longer applicable, on the agreement of the Department.



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
10(c)(iii)	Prior to undertaking Condition 10(c) monitoring, provide the Department with written endorsement from a heritage monitor or other suitably qualified person (Heritage) on the suitability of the rock art monitoring proposed under Condition 10(c).	N/A - "complete"	Refer to Condition 10(c) above – this condition could be considered no longer applicable, on the agreement of the Department.
10(c)(iv)	Undertake the Condition 10(c) rock art monitoring at least once annually, where the first rock art monitoring event must be undertaken within 16 months of the commencement of construction, for a period of not less than two (2) years.	N/A - "complete"	Refer to Condition 10(c) above – this condition could be considered no longer applicable, on the agreement of the Department.
10(c)(v)	At least once annually, engage with the Murujuga Aboriginal Corporation in the planning and reporting associated with the annual survey of rock art sites required under Condition 10(c).	N/A - "complete"	Refer to Condition 10(c) above – this condition could be considered no longer applicable, on the agreement of the Department.
10(d)	Revoked – publishing of baseline rock art monitoring is now in Condition 14.	N/A	Not applicable.
10A	To protect the values of the Dampier Archipelago (including Burrup Peninsula) National Heritage Place, particularly the rock art sites, the person taking the action must ensure that on-going rock art monitoring is undertaken to identify any changes to the appearance, or cultural value, of rock art sites, as per the requirements below:	N/A - refer below	Condition objective, sub-conditions refer below.
10A(a)	On-going rock art monitoring must be undertaken at the same 6 sites as monitored under Condition 10 (or other sites if agreed to in writing by the Minister).	Compliant	As per Condition 10A(d) rock art monitoring is conducted by the Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER). Monitoring is undertaken at the discretion of the department.
10A(b)	The first on-going rock art monitoring event must be complete by no later than 31 December 2017. Subsequent rock art monitoring must be undertaken annually (undertaken between 15 July and 15 September) for the life of the approval.	Compliant	As per Condition 10A(d) rock art monitoring is conducted by the Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER). Monitoring is undertaken at the discretion of the department.
10A(c)	On-going rock art monitoring must be undertaken by a suitably qualified person (Heritage).	Compliant	As per Condition 10A(d) rock art monitoring is conducted by the Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER).
10A(d)	On-going rock art monitoring must be undertaken either: <ul style="list-style-type: none"> <li>i. by the person taking the action, using a methodology approved by the Minister in writing; or</li> <li>ii. through provision of an annual pro-rata amount for the Burrup Rock Art Monitoring Program or another program administered by the Western Australian Government Department of Water and Environmental Regulation.</li> </ul>	Compliant	Rock art monitoring is no longer being undertaken individually due to our existing and ongoing financial commitment to the State Governments Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER). Acceptance that Condition 10A(d) is being met was received from DCCEEW on the 7th of November 2022 (Attachment 10A(d))
10A(e)	At least once annually, the person taking the action must engage with the Murujuga Aboriginal Corporation in the planning and reporting associated with the on-going annual rock art monitoring.	Compliant	As per Condition 10A(d) rock art monitoring is conducted by the Murujuga Rock Art Monitoring Project, led by the Department of Water and Environmental Regulation (DWER). The Murujuga Rock Art Stakeholder Reference Group (MRASRG) are regularly engaged. The Murujuga Aboriginal Corporation (MAC) are part of this reference group. During the reporting period MRASRG held five meetings in August 2022, September 2022, December 2022, March 2023 and May 2023. A well as a stakeholder workshop (May 2023) and UWA Rock Art Symposium (February 2023). Engagement with MAC in relation to rock art monitoring is ongoing.
11	To protect the Dampier Archipelago (including Burrup Peninsula) National Heritage Place the person taking the action must ensure that there is no measurable impact from air pollutants to any rock art sites within 2km of the boundary of the action, at any time during the life of the approval. This includes measurable changes in patination, including but not limited to: discolouration of the surface of the rock art motif or the surrounding rock surface including	Compliant	YPN has not been notified of any evidence of any measurable impact from air pollutants to any rock art sites within 2 km of the project site.



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
	patina; or changes that make the rock art site more difficult to interpret (for example a decrease in definition).		
11A	If the Minister is not satisfied that the outcome described in Condition 11 is being met, the Minister may request (in writing) that the person taking the action submit a Rock Art Impact Mitigation Review (RAIMR) to the Department for approval by the Minister.	N/A	The Minister has not made any request to YPN with respect to this Condition.
11A(a)	The RAIMR must: <ul style="list-style-type: none"> <li>i. Be prepared by a suitably qualified person (Heritage) in consultation with a suitably qualified Person (Air Quality);</li> <li>ii. Be submitted within a timeframe specified by the Minister.</li> <li>iii. Include an analysis of the cause or causes of the detected change in the rock art surface;</li> <li>iv. Include a review of operations, including changes to operations to reduce the impact of air emissions on rock art; and</li> <li>v. Include mitigation and management measures to protect rock art sites within 2km of the boundary of the action from further impacts, to meet the requirements of Condition 11.</li> </ul>	N/A	Refer to Condition 11A above.
11A(b)	If the Minister approves the RAIMR required under this condition, then the approved RAIMR must be implemented.	N/A	Refer to Condition 11A above.
12	If the person taking the action wishes to carry out any activity otherwise than in accordance with the management plan(s) and or monitoring program(s) as specified in the conditions, the person taking the action must submit to the Department for the Minister's written approval a revised version of that management plan(s) and or monitoring program(s). The varied activity shall not commence until the Minister has approved the varied management plan(s) and or monitoring program(s) in writing. The Minister will not approve a varied management plan(s) and or monitoring program(s) unless the revised management plan(s) and or monitoring program(s) would result in an equivalent or improved environmental outcome over time. If the Minister approves the revised management plan(s), and or monitoring program(s) that management plan(s) and or monitoring program(s) must be implemented in place of the management plan(s) and or monitoring program(s) originally approved.	Compliant	The Emergency Management Plan (EMP) is currently being updated and will be submitted to the Department once an internal review has been completed. No changes have been made to the environmental components of the EMP.  YPN is currently compliant with the most recently approved EMP. A self-assessment most recently undertaken in March 2023.
13	If the Federal Minister believes that it is necessary or convenient for the better protection of National Heritage Place, listed threatened species and communities and listed migratory species to do so, the Minister may request that the person taking the action make specified revisions to the management plan(s), monitoring program(s) specified in the conditions and submit the revised management plan(s), monitoring program(s) for the Minister's written approval. The person taking the action must comply with any such request. The revised approved management plan(s), monitoring program(s), must be implemented. Unless the Minister has approved the revised management plan(s), monitoring program(s), then the person taking the action must continue to implement the management plan(s), monitoring program(s) originally approved, as specified in the conditions.	N/A	The Minister has made no request during the reporting period.
14	Unless otherwise agreed to in writing by the Minister, the person taking the action must publish on their website, for the life of the approval: <ul style="list-style-type: none"> <li>a) Management plans required under Conditions 7 and 11A, within 1 month of being approved.</li> </ul>	Compliant	YPN publishes all management plan(s) and monitoring program(s) on the website, <a href="https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/">https://www.yara.com.au/about-yara/about-yara-australia/pilbara/yara-pilbara-nitrates/</a> as follows:



Condition Number	Condition	Is the Project compliant with this condition?	Evidence / Comments
	b) A revised version of any management plans required under Conditions 7 and 11A, within 1 month of being approved under Condition 12 or 13. c) All baseline air quality data collected under Condition 9, by 31 October 2017. d) All ongoing air quality monitoring data required under Condition 9A, within 3 months of collection of each datum. e) All baseline rock art data or reports relating to Condition 10, within 30 days of any data or reports on being provided to the person taking the action. f) All rock art monitoring data or reports relating to on-going rock art monitoring required under Condition 10A, within 30 days of the data or reports being provided to the person taking the action		<p>Please note that it could be interpreted that to comply with both sub-conditions 14(a) and 14(b) the original management plans <i>and</i> any revised versions are to stay on the website for the life of the approval. To avoid confusion YPN has interpreted that the revised approved versions replace the originals, which can be removed from the website.</p> <p>a) Condition 7 plans include the CEMP, OEMP, AHMP, HMMP and EMP; Condition 11A refers to the RAIMR. As discussed in Condition 7 above, the OEMP has incorporated the AHMP and HMMP. All plans are available on the YPN website.</p> <p>b) N/A</p> <p>c) The Baseline Air Quality Monitoring Report is available on the YPN website.</p> <p>d) All ongoing quality monitoring data are available on the YPN website. Each report was posted within 30-60 days of the data becoming available to YPN.</p> <p>e) All baseline rock art monitoring reports are available on the YPN website. As discussed in the 2017 ACR Addendum, following monitoring in August of both 2015 and 2016 a report was published by DWER on the BRATWG website in September 2017. This report was also published on the YPN website.</p> <p>f) All rock art monitoring reports undertaken by Yara on the YPN webpage. MRAMP reports are available online through: <a href="https://www.wa.gov.au/government/document-collections/murujuga-rock-art-strategy-document-collection#stakeholder-reference-group">https://www.wa.gov.au/government/document-collections/murujuga-rock-art-strategy-document-collection#stakeholder-reference-group</a></p>
15	If, at any time after 2 years from the date of this approval, the person taking the action has not substantially commenced the action, then the person taking the action must not substantially commence the action without the written agreement of the Minister.	N/A - "complete"	<p>The TAN Plant substantially commenced in 2012, within 2 years of the date of approval.</p> <p>YPN sought the Departments agreement in 2018 EPBC ACR that this condition can be considered 'complete'.</p>



### 3.3 Details of Non-Compliance

There were three (3) instances that limits described in Licence L9223/2019/1 issued under Part V of the Environmental Protection Act 1986 were exceeded. These exceedances were in relation to the maintenance or malfunction of equipment and have been rectified.

The 1<sup>st</sup> of December (two exceedances) occurred due to the reduced cooling capacity of the cooling towers (maintenance) and the 24<sup>th</sup> of January (one exceedance) occurred due to the malfunction of equipment resulting in a significant increase of temperature within the Nitric Acid Reactor. All exceedances were for short durations.



#### 4 Management Plans

During the reporting period the following management plans were implemented:

- Operational Environmental Management Plan (OEMP) including management measures for:
  - Erosion Control and Storm Water;
  - Water Quality;
  - Air Quality and Dust;
  - Waste; and
  - Traffic.
- Aboriginal Heritage Management Plan (incorporated into OEMP);
- Hazardous Materials Management Plan (incorporated into OEMP); and
- Emergency Management Plan:

On 15 September 2017 the OEMP was approved by the Department. The OEMP is currently being revised and will be provided to the Department for approval once complete.



## 5 New Environmental Risks

No new environmental risks that were not contemplated in the Project referral and assessment process have been identified in the audit period.



## 6 Attachments

The following documents are attached to this 2023 ACR as evidence of compliance:

- Attachment 3a (1): Email from YPN to Department, dated 6 October 2022, regarding submission of 2022 EPBC ACR
- Attachment 3a (2): Screenshots from YPN website showing proof of publication for 2021/22 Air Quality Analysis Report (as per Condition 9A) and 2022 EPBC Annual Environmental Compliance Report
- Attachment 4: YPN Discharge to MUBRL- Continuous and Weekly Sample Results
- Attachment 6a: Email Correspondence for Bird Deterrent Approval 25 June 2015
- Attachment 6b: Bird Deterrent Structures Photos June 2022 and Environmental Inspection Checklist
- Attachment 7c: YPN OEMP Approval Letter 15 September 2017
- Attachment 8a: National Heritage Place Access Form and Register 2023
- Attachment 9A(a): Published Air Quality Monitoring Reports 2023
- Attachment 9A(b): Site 7 Relocation Approval Letter and Map of Relocation Site
- Attachment 9B(a): Nitric Acid Stack CEMS data (graph and table) and Stack Testing Results 14<sup>th</sup> July 2022, 21<sup>st</sup> September 2022, 2<sup>nd</sup> December 2022 and 8<sup>th</sup>/9<sup>th</sup> of June 2023 (Ektimo Quarterly Stack testing)
- Attachment 10A(d): Department of Climate Change, Energy, the Environment and Water (DCCEEW) Acceptance Letter that Condition 10A(d) is Compliant, dated 7th November 2022
- Attachment- Site Photos (5<sup>th</sup> July 2023)



2023 Annual Compliance Report  
EPBC 2008/4546  
Technical Ammonium Nitrate Plant

06-10-2023 600-200-ACR-YPN-0012 Rev 0

**Attachment 3a (1): Email from YPN to Department, dated 6 October 2022, regarding submission of 2022 EPBC ACR**





2023 Annual Compliance Report  
EPBC 2008/4546  
Technical Ammonium Nitrate Plant

06-10-2023 600-200-ACR-YPN-0012 Rev 0

**Attachment 3a (2): Screenshots from YPN website showing proof of publication for 2021/22 Air Quality Analysis Report (as per Condition 9A) and 2022 EPBC Annual Environmental Compliance Report**

- [Air Quality Monitoring Report - April 2021](#)
- [Air Quality Monitoring Report - May 2021](#)
- [Air Quality Monitoring Report - June 2021](#)
- [Air Quality Monitoring Report - July 2021](#)
- [Air Quality Monitoring Report - August 2021](#)
- [Air Quality Monitoring Report - September 2021](#)
- [Air Quality Monitoring Report - October 2021](#)
- [Air Quality Monitoring Report - November 2021](#)
- [Air Quality Monitoring Report - December 2021](#)
- [Ambient Air Quality Monitoring Report 2020 - 2021](#)
- [Air Quality Monitoring Report - January 2022](#)
- [Air Quality Monitoring Report - February 2022](#)
- [Air Quality Monitoring Report - March 2022](#)
- [Air Quality Monitoring Report - April 2022](#)
- [Air Quality Monitoring Report - May 2022](#)
- [Air Quality Monitoring Report - June 2022](#)
- [Air Quality Monitoring Report - July 2022](#)
- [Air Quality Monitoring Report - August 2022](#)
- [Ambient Air Quality Monitoring Report 2021 - 2022](#)**



Groundwater Monitoring Reports

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Rock7 Wet Monitoring Reports

Compliance Assessment Reports MSB70

Annual Environmental Compliance Reports EPBC 2008/4546

- [TAN Plant EPBC Annual Compliance Report 2014](#)
- [TAN Plant EPBC Annual Compliance Report 2015](#)
- [TAN Plant EPBC Annual Compliance Report 2016](#)
- [TAN Plant EPBC Annual Compliance Report 2017](#)
- [TAN Plant EPBC Annual Compliance Report 2017 - Addendum](#)
- [TAN Plant EPBC Annual Compliance Report 2018](#)
- [TAN Plant EPBC Annual Compliance Report 2019](#)
- [TAN Plant EPBC Annual Compliance Report 2020](#)
- [TAN Plant EPBC Annual Compliance Report 2021](#)
- [TAN Plant EPBC Annual Compliance Report 2022](#)

Other Reports

Approved Monitoring and Management Plans

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2023 Annual Compliance Report  
EPBC 2008/4546  
Technical Ammonium Nitrate Plant

06-10-2023 600-200-ACR-YPN-0012 Rev 0

**Attachment 4: YPN Discharge to MUBRL- Continuous and Weekly Sample Results**

Title	M1 (Incoming Sewater)			Yara Pilbara Nitrate Discharge Point to MUBRL (W4)										
	Incoming Brine Temp (WaterCorp)	Incoming Seawater Flow	Backup SW Inlet Temp (Desal 1)	Temperature	Conductivity	ORP	pH	Flow	Flow	YPM	Temperature Difference (W4-M1)	W4 Conductivity	W4 pH	
	°C	m <sup>3</sup> / hour	°C	°C	mS/cm	mV		kg/hr	m <sup>3</sup> /hr	°C	Minutes >5°C	Hours >5°C	mS/cm	
Unit	T102006	F102001	1-TT5101	611001_PV	61A002_PV	61A003_PV	61A004_PV	87F005_PV	87F005_PV*0.0010	W4-M1				
Tag #	°C	m <sup>3</sup> / hour	°C	°C	mS/cm	mV		kg/hr	m <sup>3</sup> /hr	°C	Minutes >5°C	Hours >5°C	mS/cm	Monthly Average
01-July-2022	20.4	1979.22	20.6	22.9	69.5	626.8	8.1	138.195.80	138.20	2.5	0.0	0.0		
02-July-2022	20.0	2113.92	20.0	22.1	70.3	603.4	8.1	137.736.62	137.74	2.1	0.0	0.0		
03-July-2022	19.5	2112.49	19.6	19.8	71.0	630.9	8.1	138.380.09	138.38	0.3	0.0	0.0		
04-July-2022	19.2	2148.74	19.4	19.6	70.9	654.7	8.1	141.913.35	141.91	0.4	0.0	0.0		
05-July-2022	19.2	2179.70	19.4	17.4	67.6	616.1	8.2	152.622.30	152.60	-1.8	0.0	0.0		
06-July-2022	19.1	2162.68	19.2	15.7	59.9	625.1	8.1	153.231.83	153.23	-3.4	0.0	0.0		
07-July-2022	19.0	2159.05	19.1	19.6	65.2	729.1	8.4	151.181.03	151.18	0.6	0.0	0.0		
08-July-2022	19.1	2170.50	19.1	19.4	69.5	559.9	8.4	149.845.00	149.80	0.3	0.0	0.0		
09-July-2022	19.3	2172.38	19.3	19.9	70.4	597.0	8.1	154.225.98	154.23	0.6	0.0	0.0		
10-July-2022	20.0	2171.41	19.9	20.1	69.7	616.6	8.1	163.329.53	163.33	0.1	0.0	0.0		
11-July-2022	20.7	2171.55	20.8	20.7	69.3	611.8	8.1	163.332.53	163.33	0.0	0.0	0.0		
12-July-2022	21.0	2170.90	21.1	21.2	69.1	613.5	8.1	163.227.10	163.20	0.2	0.0	0.0		
13-July-2022	21.1	2170.20	21.1	21.9	69.1	590.8	8.2	162.537.20	162.50	0.8	0.0	0.0		
14-July-2022	21.0	2179.44	21.1	22.2	69.0	539.4	8.1	161.935.43	161.94	1.2	0.0	0.0		
15-July-2022	21.3	2176.28	21.3	21.7	69.2	624.0	8.1	161.064.50	161.06	0.4	0.0	0.0		
16-July-2022	21.4	2170.69	21.5	21.0	69.7	635.3	8.1	162.217.23	162.22	-0.4	0.0	0.0		
17-July-2022	21.5	2170.50	21.5	22.0	69.6	621.6	8.1	162.120.20	162.12	0.5	0.0	0.0		
18-July-2022	22.0	2168.28	22.0	22.7	69.4	616.2	8.1	160.489.59	160.49	0.8	0.0	0.0		
19-July-2022	22.3	2153.82	22.4	23.3	70.7	597.4	8.1	121.370.19	121.37	1.0	0.0	0.0		
20-July-2022	22.3	2155.35	22.3	23.1	71.8	627.2	8.1	121.874.55	121.87	0.9	0.0	0.0		
21-July-2022	22.5	2130.04	22.4	23.5	72.2	602.7	8.1	121.017.67	121.02	1.0	0.0	0.0		
22-July-2022	23.3	2123.09	23.4	25.7	72.1	657.3	8.0	114.574.74	114.57	2.5	0.0	0.0		
23-July-2022	23.5	2160.29	23.8	24.2	72.3	703.6	8.0	122024.51	122.02	0.6	0.0	0.0		
24-July-2022	22.6	2230.74	22.9	21.8	72.7	630.9	8.1	122679.69	122.68	-0.9	0.0	0.0		
25-July-2022	22.3	1953.63	22.7	21.9	72.6	581.5	8.1	101293.42	101.29	-0.4	0.0	0.0		
26-July-2022	22.1	2103.89	22.1	22.2	74.0	767.5	8.1	102843.63	102.84	0.1	0.0	0.0		
27-July-2022	22.5	2113.00	22.1	22.0	73.2	688.8	8.1	122.787.53	122.79	-0.5	0.0	0.0		
28-July-2022	22.3	2153.94	22.1	24.3	69.9	786.1	8.0	118.187.23	118.19	2.0	0.0	0.0		
29-July-2022	22.7	2151.94	22.5	23.0	69.3	681.2	8.1	123.873.53	123.87	0.3	0.0	0.0		
30-July-2022	23.0	2160.67	22.9	23.0	69.6	607.6	8.0	128.248.30	128.25	0.0	0.0	0.0		
31-July-2022	23.3	2231.80	23.3	22.9	67.2	689.4	8.0	130.198.50	130.20	-0.4	0.0	0.0		69.8
01-August-2022	23.5	2196.13	23.4	23.8	66.0	677.0	8.1	125.056.65	125.06	0.3	0.0	0.0		8.1
02-August-2022	23.8	2237.27	23.9	22.3	59.8	620.9	8.1	124.574.18	124.57	-1.4	0.0	0.0		
03-August-2022	23.2	2217.04	23.4	21.5	60.8	650.2	8.1	125.712.64	125.71	-1.7	0.0	0.0		
04-August-2022	22.9	2208.45	22.9	19.4	63.4	600.7	8.1	126.209.00	126.21	-3.4	0.0	0.0		
05-August-2022	22.6	2254.60	22.5	20.8	63.9	666.8	8.1	125.553.70	125.60	-1.8	0.0	0.0		
06-August-2022	22.3	2233.00	22.3	23.2	70.4	654.3	8.1	126.286.70	126.30	0.9	0.0	0.0		
07-August-2022	22.3	2229.42	22.2	23.5	72.1	875.4	8.1	126.761.76	126.76	1.2	0.0	0.0		
08-August-2022	22.7	2216.40	22.4	23.4	72.5	911.5	8.0	127.853.00	127.85	0.7	0.0	0.0		
09-August-2022	22.3	2236.21	22.4	21.8	72.8	931.1	8.1	127.550.41	127.55	-0.5	0.0	0.0		
10-August-2022	21.8	2235.35	21.9	21.0	73.0	846.9	8.1	127.306.35	127.31	-1.1	0.0	0.0		
11-August-2022	21.8	2232.13	21.7	20.9	72.8	781.2	8.1	126.399.33	126.40	-0.9	0.0	0.0		
12-August-2022	21.8	2242.20	21.6	21.9	72.7	870.3	8.1	127.275.40	127.30	0.1	0.0	0.0		
13-August-2022	22.2	2194.00	21.7	23.7	72.4	713.9	8.1	127.315.11	127.32	1.5	0.0	0.0		
14-August-2022	23.1	2184.97	22.2	24.4	72.3	682.8	8.0	126.765.31	126.77	1.2	0.0	0.0		
15-August-2022	23.9	2175.05	23.0	25.0	72.4	660.6	8.0	127.123.37	127.12	1.0	0.0	0.0		
16-August-2022	24.2	2162.07	23.3	26.1	71.9	637.5	8.0	126.124.90	126.12	1.9	0.0	0.0		
17-August-2022	24.5	2159.61	24.2	26.2	71.7	916.5	8.0	129.264.28	129.26	1.6	0.0	0.0		
18-August-2022	24.3	2156.30	23.8	22.8	72.2	930.6	8.1	129.141.07	129.14	-1.4	0.0	0.0		
19-August-2022	23.7	2135.94	23.3	22.0	72.6	846.0	8.1	128.992.57	128.99	-1.7	0.0	0.0		
20-August-2022	23.0	2130.67	22.6	21.9	73.4	728.9	8.1	128.248.30	128.20	-1.3	0.0	0.0		
21-August-2022	23.3	2184.24	22.6	22.9	73.4	641.9	8.1	127.392.15	127.39	-0.5	0.0	0.0		
22-August-2022	23.7	2195.01	22.6	22.3	73.6	726.4	8.1	125.724.14	125.72	-1.3	0.0	0.0		
23-August-2022	23.5	2180.96	22.5	23.0	73.5	804.2	8.1	126.718.95	126.72	-0.5	0.0	0.0		
24-August-2022	22.4	2195.60	21.9	20.5	72.9	703.1	8.1	142.420.90	142.40	-1.9	0.0	0.0		
25-August-2022	22.3	2203.60	21.6	21.1	71.3	687.9	8.1	150.585.50	150.60	-1.2	0.0	0.0		
26-August-2022	22.7	2202.00	21.8	21.7	70.9	647.9	8.1	149.490.50	149.50	-1.0	0.0	0.0		
27-August-2022	23.2	2204.04	22.1	22.9	69.0	639.3	8.1	149.351.61	149.35	-0.4	0.0	0.0		
28-August-2022	24.0	2125.87	22.9	19.4	62.2	610.2	8.2	153.660.29	153.66	-4.6	0.0	0.0		
29-August-2022	23.6	2249.16	22.8	19.0	57.1	615.3	8.2	149.717.05	149.72	-4.6	0.0	0.0		
30-August-2022	23.5	2141.34	22.6					2.05						
31-August-2022	24.1	2142.63	22.9					1.99	0.00					69.3
01-September-2022	24.1	2109.80	23.4	24.7	69.3	410.3	8.1	5.418.90	5.40	0.6	0.0	0.0		8.1
02-September-2022	23.6	2181.43	23.5	23.2	56.6	584.4	8.1	141.065.43	141.07	-0.4	0.0	0.0		
03-September-2022	23.5	1788.77	23.5	23.8	63.3	914.4	8.1	140.258.73	140.26	0.3	0.0	0.0		
04-September-2022	23.8	2023.59	23.8	22.7	65.3	604.4	8.1	153.120.17	153.12	-1.2	0.0	0.0		
05-September-2022	23.9	2054.85	24.0	23.2	65.4	582.9	8.1	153.207.68	153.21	-0.7	0.0	0.0		
06-September-2022	23.3	2046.40	23.4	23.7	66.1	551.8	8.1	152.388.91	152.39	0.4	0.0	0.0		
07-September-2022	23.2	2056.62	23.1	23.1	69.5	598.3	8.1	152.595.82	152.60	-0.1	0.0	0.0		
08-September-2022	23.4	2054.94	23.2	23.3	69.3	596.9	8.1	154.260.43	154.26	-0.1	0.0	0.0		
09-September-2022	23.6	2041.75	23.5	23.5	68.1	590.4	8.1	152.548.43	152.53	0.0	0.0	0.0		
10-September-2022	23.5	2010.51	23.6	22.8	66.6	771.4	8.0	154.886.11	154.89	-0.7	0.0	0.0		
11-September-2022	23.8	1989.90	23.5	23.1	66.6	916.8	8.1	156.245.10	156.20	-0.7	0.0	0.0		
12-September-2022	24.3	1853.46	24.0	23.6	66.4	859.5	8.1	1						

Title	M1 (Incoming Seawater)			Yara Pilbara Nitrate Discharge Point to MUBRL (W4)										
	Incoming Brine Temp (WaterCorp)	Incoming Seawater Flow	Backup SW Inlet Temp (Desal 1)	Temperature	Conductivity	ORP	pH	Flow	Flow	YPN	Temperature Difference (W4-M1)	W4 Conductivity	W4 pH	
	°C	m <sup>3</sup> / hour	(Desal 1)	°C	mS/cm	mV		kg/hr	m <sup>3</sup> /hr		°C	mS/cm		
	Tag #	T102006	F102001	1-TT5101	61T1001_PV	61A1003_PV	61A1002_PV	61A1004_PV	87F1005_PV	87F1005_PV*0.0010	W4-M1	Minutes >5°C	Hours >5°C	Monthly Average
24-October-2022	26.2	2319.62	26.5	25.5	78.9	855.9	8.0	161,293.14	161.29		-0.7	0.0	0.0	
25-October-2022	26.7	2263.73	27.9	24.1	72.4	803.4	8.0	151,094.27	151.09		-2.6	0.0	0.0	
26-October-2022	27.1	2204.90	29.4	24.1	69.4	843.8	8.0	161,296.61	161.30		-3.0	0.0	0.0	
27-October-2022	26.2	2306.63	26.6	25.0	68.2	853.0	8.0	162,385.48	162.39		-1.3	0.0	0.0	
28-October-2022	25.8	2333.49	25.9	24.8	67.8	862.3	8.0	162,661.42	162.66		-1.0	0.0	0.0	
29-October-2022	25.0	2337.13	25.2	23.6	67.9	867.5	8.0	162,448.43	162.45		-1.4	0.0	0.0	
30-October-2022	25.1	2330.45	24.8	23.3	67.9	869.3	8.0	161,960.23	161.96		-1.8	0.0	0.0	
31-October-2022	25.1	2332.34	24.4	22.2	69.0	875.5	8.0	161,141.62	161.14		-2.9	0.0	0.0	74.1
01-November-2022	24.9	2332.00	24.2	22.3	69.3	845.2	8.0	160,780.40	160.80		-2.6	0.0	0.0	8.0
02-November-2022	25.4	2326.96	24.4	24.1	69.0	745.9	7.9	158,480.92	158.48		-1.2	0.0	0.0	
03-November-2022	25.9	2308.67	24.9	24.0	69.4	770.2	7.9	157,415.22	157.42		-1.9	0.0	0.0	
04-November-2022	26.8	2332.00	25.6	24.0	69.9	719.8	8.0	157,992.90	158.00		-2.8	0.0	0.0	
05-November-2022	27.1	2339.50	26.8	27.0	67.4	562.7	7.9	168,844.94	168.84		-0.1	0.0	0.0	
06-November-2022	26.4	2339.84	26.7	24.8	66.9	584.1	7.9	168,033.27	168.03		-1.5	0.0	0.0	
07-November-2022	25.3	2322.58	25.5	24.0	66.7	719.5	7.9	168,583.52	168.58		-1.3	0.0	0.0	
08-November-2022	24.8	2319.70	24.9	23.6	66.8	854.3	8.0	170,289.50	170.30		-1.2	0.0	0.0	
09-November-2022	25.1	2323.70	25.0	24.3	66.8	867.2	8.0	172,550.40	172.60		-0.8	0.0	0.0	
10-November-2022	24.8	2313.20	24.7	24.1	67.0	837.2	8.0	172,141.50	172.10		-0.7	0.0	0.0	
11-November-2022	24.8	2313.70	24.5	24.2	67.2	638.3	8.0	172,091.50	172.10		-0.6	0.0	0.0	
12-November-2022	26.1	2314.10	24.9	24.2	67.7	752.2	8.0	171,718.30	171.70		-1.9	0.0	0.0	
13-November-2022	26.8	2319.90	25.4	24.4	68.1	788.6	8.0	171,773.10	171.80		-2.4	0.0	0.0	
14-November-2022	26.9	2320.20	25.6	26.4	67.1	738.8	8.0	172,496.90	172.50		-0.5	0.0	0.0	
15-November-2022	27.1	2313.10	26.5	26.7	65.9	635.1	7.9	172,276.50	172.30		-0.4	0.0	0.0	
16-November-2022	27.1	2327.43	26.9	25.8	65.6	540.4	7.9	175,588.60	175.59		-1.3	0.0	0.0	
17-November-2022	26.9	1989.73	27.0	24.9	66.9	519.9	7.9	127,680.25	127.68		-1.9	0.0	0.0	
18-November-2022	25.8	2274.00	25.9	23.7	67.2	517.0	7.9	146,188.30	146.20		-2.1	0.0	0.0	
19-November-2022	26.6	2273.30	25.8	23.6	67.5	570.6	7.9	145,655.50	145.70		-3.0	0.0	0.0	
20-November-2022	26.9	2287.10	26.0	25.4	67.5	771.4	7.9	147,301.10	147.30		-1.5	0.0	0.0	
21-November-2022	28.1	1645.20	27.7	26.4	70.3	686.1	7.8	85,348.30	85.30		-1.7	0.0	0.0	
22-November-2022	30.5	888.68	31.1	28.6	80.6	483.8	7.7	22,309.14	22.31		-1.9	10.0	0.2	
23-November-2022	30.0	2265.00	28.2	26.1	73.4	364.1	7.9	145,616.20	145.60		-3.9	0.0	0.0	
24-November-2022	30.4	2293.90	27.1	27.0	67.2	672.1	7.9	145,044.30	145.04		-3.4	0.0	0.0	
25-November-2022	30.5	2272.70	27.8	27.5	66.2	648.8	8.0	146,769.00	146.80		-3.0	0.0	0.0	
26-November-2022	30.1	2270.70	28.3	26.7	66.9	415.4	8.1	144,297.80	144.30		-3.4	0.0	0.0	
27-November-2022	31.7	2272.60	28.5	26.9	67.1	393.6	8.0	143,969.90	144.00		-4.8	0.0	0.0	
28-November-2022	29.5	2276.17	28.8	27.6	68.4	362.7	8.0	142,896.64	142.90		-1.9	0.0	0.0	
29-November-2022	29.3	2240.20	29.0	28.9	71.2	364.6	7.9	140,621.80	140.60		-0.4	0.0	0.0	
30-November-2022	29.3	2267.52	30.5	29.2	70.9	416.1	7.9	169,418.10	169.42		0.0	0.0	0.0	68.4
01-December-2022	29.6	2277.93	31.1	29.4	69.1	458.6	7.9	186,222.23	186.22		-0.3	0.0	0.0	
02-December-2022	29.4	2292.78	30.1	29.2	68.6	489.7	8.0	200,258.67	200.26		-0.2	0.0	0.0	
03-December-2022	29.3	2299.50	29.4	28.9	69.0	542.4	8.1	201,054.10	201.10		-0.4	0.0	0.0	
04-December-2022	29.5	2307.50	29.3	28.9	69.3	572.7	8.1	201,968.50	202.00		-0.4	0.0	0.0	
05-December-2022	29.5	2320.70	29.5	28.6	69.7	556.2	8.1	204,909.20	204.90		-0.9	0.0	0.0	
06-December-2022	29.2	2330.50	29.2	28.9	68.9	549.1	8.1	209,120.10	209.10		-0.3	0.0	0.0	
07-December-2022	28.9	2328.26	28.9	28.3	68.3	537.7	8.1	213,435.02	213.44		-0.6	0.0	0.0	
08-December-2022	28.9	2325.00	28.7	27.8	68.7	511.0	8.1	212,418.10	212.40		-1.1	0.0	0.0	
09-December-2022	28.7	2333.20	28.6	28.3	68.7	577.0	8.1	212,790.90	212.80		-0.4	0.0	0.0	
10-December-2022	29.9	2329.40	29.0	28.2	69.7	503.1	8.1	212,912.10	212.90		-1.7	0.0	0.0	
11-December-2022	30.5	2338.40	29.6	27.9	70.4	485.3	8.1	217,500.50	217.50		-2.6	0.0	0.0	
12-December-2022	29.5	2346.60	29.4	29.0	69.2	497.0	8.1	225,107.30	225.10		-0.5	0.0	0.0	
13-December-2022	29.7	2361.26	29.4	28.9	69.1	483.1	8.1	224,841.02	224.84		-0.9	0.0	0.0	
14-December-2022	30.2	2347.73	29.5	29.4	69.2	470.7	8.1	215,434.83	215.43		-0.8	0.0	0.0	
15-December-2022	29.8	2340.61	29.6	28.2	70.0	423.8	8.1	202,044.78	202.08		-1.6	0.0	0.0	
16-December-2022	29.3	2356.13	28.8	27.8	69.8	498.8	8.1	202,787.86	202.79		-1.5	0.0	0.0	
17-December-2022	29.6	2342.00	28.7	28.7	67.9	563.8	8.1	202,655.10	202.70		-0.9	0.0	0.0	
18-December-2022	29.7	2062.50	28.9	28.3	67.8	456.4	8.1	143,048.70	143.00		-1.4	0.0	0.0	
19-December-2022	29.8	2335.10	29.1	27.7	68.1	558.0	8.1	147,810.05	147.81		-2.1	0.0	0.0	
20-December-2022	29.7	2344.90	29.0	27.2	69.1	721.0	8.1	151,380.20	151.40		-2.5	0.0	0.0	
21-December-2022	29.3	2340.32	29.0	26.7	68.8	532.0	8.1	153,002.42	153.00		-2.6	0.0	0.0	
22-December-2022	30.0	2350.80	28.9	27.3	67.8	487.1	8.1	160,847.40	160.80		-2.7	0.0	0.0	
23-December-2022	30.6	2342.12	29.3	27.7	67.9	579.7	8.1	155,144.84	155.14		-3.0	0.0	0.0	
24-December-2022	30.4	2355.20	30.0	28.9	67.7	568.9	8.0	167,009.91	167.01		-1.6	0.0	0.0	
25-December-2022	30.5	2350.70	30.7	29.3	66.8	469.8	8.1	171,718.74	171.72		-1.1	0.0	0.0	
26-December-2022	30.5	2348.68	30.2	29.8	66.8	469.9	8.1	170,091.56	170.09		-0.7	0.0	0.0	
27-December-2022	31.2	2352.54	30.6	29.9	67.6	467.7	8.1	169,234.55	169.23		-1.4	0.0	0.0	
28-December-2022	31.9	2411.16	31.6	30.4	68.1	452.8	8.1	235,330.74	235.33		-1.4	0.0	0.0	
29-December-2022	31.7	2433.94	33.1	30.0	67.7	444.6	8.1	252,108.42	252.11		-1.7	0.0	0.0	
30-December-2022	32.5	2423.50	34.9	30.3	68.6	436.0	8.1	243,430.63	243.43		-2.3	0.0	0.0	
31-December-2022	32.3	2429.04	32.9	31.0	67.7	441.8	8.1	251,591.30	251.59		-1.3	0.0	0.0	68.6
01-January-2023	32.1	2,430.67	33.6	29.6	68.1	448.3	8.1	254,600.11	254.60		-2.5	0.0	0.0	
02-January-2023	30.2	2,435.30	30.6	29.8	67.0	523.7	8.1	256,226.14	256.23		-0.4	0.0	0.0	
03-January-2023	30.3	2,432.89	30.8	30.1	66.6	512.4	8.0	259,847.44	259.85		-0.2	0.0	0.0	
04-January-2023	30.1	2,431.78	30.3	30.1	65.2	610.1	8.1	259,801.30	259.80		0.0	0.0	0.0	
05-January-2023	29.5	2,438.47	29.6	29.8	64.8	582.6	8.1	259,508.94	259.51		0.3	0.0	0.0	
06-January-2023	28.8	2,434.55	29.4	26.4	58.0	521.7	7.2	263,575.97	263.58		-2.4	0.0	0.0	
07-January-2023	28.7	2,435.82	29.3	28.8	63.8	674.7	7.8	265,038.26	265.04		0.2	0.0	0.0	
08-January-2023	29.0	2,432.74	29.8	29.9	64.8	718.9	8.0	267,505.49	267.51		0.9	0.0	0.0	
09-January-2023	29.3	2,434.36	30.9	29.8	65.5	638.5	8.0	268,121.04	268.12		0.5	0.0	0.0	
10-January-2023	29.8	2,383.20	30.6	30.3	65.0	570.8	8.0	252,873.11	252.87		0.5	0.0	0.0	
11-January-2023	30.7	2,355.24	30.9	29.9	65.9	637.6	8.0	250,751.61	250.75		-0.9	0.0	0.0	
12-January-2023	31.3	2,367.58	34.3	29.0	67.5	571.8	8.0	251,097.82	251.10		-2.3	0.0	0.0	
13-January-2023	31.9	2,377.88	35.7	29.6	68.5	491.9	7.9	262,166.45	262.17		-2.3	0.0	0.0	
14-January-2023	31.6	2,391.44	34.9	30.5	67.2	484.1	7.9	2						

Title	M1 (Incoming Seawater)			Yara Pilbara Nitrate Discharge Point to MUBRL (W4)											
	Incoming Brine Temp (WaterCorp)	Incoming Seawater Flow	Backup SW Inlet Temp (Desal 1)	Temperature	Conductivity	ORP	pH	Flow	Flow	YPN Temperature Difference (W4-M1)			W4 Conductivity	W4 pH	
										W4-M1	Minutes >5°C	Hours >5°C			
Unit	°C	m <sup>3</sup> / hour	°C	°C	mS/cm	mV		kg/hr	m <sup>3</sup> /hr	°C			mS/cm		
Tag #	T1Q2006	F1Q001	1-TT5101	61TI001_PV	61AI003_PV	61AI002_PV	61AI004_PV	87FI005_PV	87FI005_PV*Q010	W4-M1	Minutes >5°C	Hours >5°C	Monthly Average		
15-February-2023	33.7	2,367.30	33.2	30.5	67.3	259.4	7.9	251,626.80	251.60	-3.3	0.0	0.0			
16-February-2023	33.5	2,373.40	33.0	29.7	66.9	652.1	7.9	253,147.10	253.10	-3.8	0.0	0.0			
17-February-2023	34.4	2,376.50	32.8	30.7	69.0	670.6	7.9	254,674.60	254.70	-3.7	0.0	0.0			
18-February-2023	33.7	2,374.30	32.9	31.9	68.4	626.6	7.9	255,245.00	255.20	-1.8	0.0	0.0			
19-February-2023	33.9	2,379.60	33.5	31.9	68.3	747.1	7.9	255,471.00	255.50	-2.0	0.0	0.0			
20-February-2023	34.4	2,375.70	35.7	31.4	69.0	739.2	7.9	256,254.40	256.30	-3.0	0.0	0.0			
21-February-2023	34.0	2,380.80	35.7	32.2	68.1	739.4	7.9	256,826.40	256.80	-1.8	0.0	0.0			
22-February-2023	33.0	2,377.30	33.0	30.6	66.6	663.0	7.9	257,467.10	257.50	-2.4	0.0	0.0			
23-February-2023	32.2	2,385.60	32.2	30.9	64.0	615.0	7.9	257,689.64	257.69	-1.3	1,387.0	23.1			
24-February-2023	33.4	2,386.33	33.4	30.4	63.9	407.9	8.2	257,051.63	257.05	-3.0	626.0	10.4			
25-February-2023	32.1	2,372.40	31.7	30.4	63.8	482.2	7.9	256,114.50	256.10	-1.8	0.0	0.0			
26-February-2023	32.4	2,382.40	33.4	30.4	63.9	606.4	7.9	256,411.50	256.40	-1.9	0.0	0.0			
27-February-2023	32.5	2,373.60	33.4	30.5	63.9	688.3	8.0	257,208.90	257.20	-2.0	0.0	0.0			
28-February-2023	32.3	2,373.70	33.2	30.3	63.3	683.0	7.9	259,141.50	259.10	-2.0	1,295.0	21.6	66.3	7.9	
01-March-2023	33.1	2,163.50	33.1	30.6	60.6	714.1	7.9	40,271.60	40.30	-2.5	1,440.0	24.0			
02-March-2023	33.8	2,163.40	33.8					0.00	0.00						
03-March-2023	33.3	2,168.93	33.3					0.00	0.00						
04-March-2023	32.8	2,178.20	32.8					0.00	0.00						
05-March-2023	32.8	2,161.50	32.8					0.00	0.00						
06-March-2023	33.5	2,157.10	33.5					0.00	0.00						
07-March-2023	33.7	2,157.51	33.7					0.00	0.00						
08-March-2023	33.7	2,170.30	33.7					0.00	0.00						
09-March-2023	33.8	2,172.60	33.8					0.00	0.00						
10-March-2023	34.2	2,161.50	34.2					0.00	0.00						
11-March-2023	36.2	2,165.00	36.2					0.00	0.00						
12-March-2023	35.3	2,164.20	35.3					0.00	0.00						
13-March-2023	35.0	2,163.90	35.0					0.00	0.00						
14-March-2023	34.0	2,175.00	34.0					0.00	0.00						
15-March-2023	34.1	2,171.80	34.1					0.00	0.00						
16-March-2023	34.4	2,163.21	34.4					0.00	0.00						
17-March-2023	35.9	2,164.62	35.9					0.00	0.00						
18-March-2023	36.5	2,165.10	36.5					0.00	0.00						
19-March-2023	36.2	2,178.70	36.2					0.00	0.00						
20-March-2023	36.0	2,162.80	36.0					0.00	0.00						
21-March-2023	37.4	2,160.80	37.4					0.00	0.00						
22-March-2023	36.9	2,163.90	36.9					0.00	0.00						
23-March-2023	35.8	2,127.68	35.8					0.00	0.00						
24-March-2023	32.9	2,221.40	32.9					0.00	0.00						
25-March-2023	32.7	2,241.30	32.7					0.00	0.00						
26-March-2023	32.2	2,219.80	32.2					0.00	0.00						
27-March-2023	31.7	2,219.00	31.7					0.00	0.00						
28-March-2023	31.1	2,218.60	31.1					0.00	0.00						
29-March-2023	30.9	2,236.20	30.9					0.00	0.00						
30-March-2023	30.8	2,217.00	30.8					0.00	0.00						
31-March-2023	31.3	2,217.60	31.3					0.00	0.00				60.6	7.9	
01-April-2023	31.5	2,221.90	31.5					0.00	0.00						
02-April-2023	31.7	2,228.20	31.7					0.00	0.00						
03-April-2023	31.7	2,220.75	31.7					0.00	0.00						
04-April-2023	31.7	2,233.29	31.7					0.00	0.00						
05-April-2023	31.7	2,236.70	31.7					0.00	0.00						
06-April-2023	31.6	2,271.27	31.6					0.00	0.00						
07-April-2023	31.4	2,257.70	31.4					0.00	0.00						
08-April-2023	31.1	2,235.00	31.1					0.00	0.00						
09-April-2023	30.6	2,225.34	30.6					0.00	0.00						
10-April-2023	29.9	2,220.95	29.9					0.00	0.00						
11-April-2023	29.4	2,220.50	29.4					0.00	0.00						
12-April-2023	29.6	2,187.90	29.6					0.00	0.00						
13-April-2023	29.6	2,218.90	29.6					0.00	0.00						
14-April-2023	29.3	2,185.39	29.3					0.00	0.00						
15-April-2023	28.4	2,223.88	28.4					0.00	0.00						
16-April-2023	27.2	2,258.58	27.2					0.00	0.00						
17-April-2023	27.7	2,222.80	27.7					0.00	0.00						
18-April-2023	33.0	2,218.40	33.0					0.00	0.00						
19-April-2023	31.7	2,215.50	31.7					0.00	0.00						
20-April-2023	29.3	2,211.30	29.3					0.00	0.00						
21-April-2023	29.0	2,227.36	29.0					0.00	0.00						
22-April-2023	29.5	2,210.00	29.5					0.00	0.00						
23-April-2023	30.8	2,209.96	30.8					0.00	0.00						
24-April-2023	29.9	2,174.01	29.9					0.00	0.00						
25-April-2023	27.3	2,228.19	27.3					0.00	0.00						
26-April-2023	27.3	2,237.40	27.3					0.00	0.00						
27-April-2023	27.2	2,236.50	27.2					0.00	0.00						
28-April-2023	27.2	2,236.70	27.2					0.00	0.00						
29-April-2023	27.0	2,230.50	27.0					0.00	0.00						
30-April-2023	26.4	2,226.00	26.4					0.00	0.00						
01-May-2023	26.2	2,229.00	26.2					0.00	0.00						
02-May-2023	26.3	2,252.04	26.3					0.00	0.00						
03-May-2023	26.2	2,231.30	26.2					0.00	0.00						
04-May-2023	26.3	2,241.59	26.3					0.00	0.00						
05-May-2023	26.1	2,238.70	26.1					0.00	0.00						
06-May-2023	25.8	2,236.40	25.8					0.00	0.00						
07-May-2023	25.7	2,229.80	25.7					0.00	0.00						
08-May-2023	25.5	2,221.40	25.5					0.00	0.00						
09-May-2023	25.3	2,224.30	25.3					0.00	0.00						
10-May-2023	24.7	2,222.60	24.7					0.00	0.00						
11-May-2023	24.5	2,226.34	24.5					0.00	0.00						
12-May-2023	24.5	2,240.20	24.5					0.00	0.00						
13-May-2023	24.5	2,223.80	24.5					0.00	0.00						
14-May-2023	24.8	2,221.50	24.8					0.00	0.00						
15-May-2023	25.1	1,803.90	25.1					0.00	0.00						
16-May-2023	24.5	2,247.50	24.5					0.00	0.00						
17-May-2023	24.5	2,259.30	24.5					0.00	0.00						
18-May-2023	25.1	1,807.96	25.1					0.00	0.00						
19-May-2023	24.4	2,006.60	24.4					0.00	0.00						
20-May-2023	23.7	2,146.20	23.7					0.00	0.00						
21-May-2023	23.0	2,176.00	23.0					0.00	0.00						
22-May-2023	22.6	2,165.50	22.6					0.00	0.00						
23-May-2023	22.4	2,167.80	22.4					0.00	0.00						
24-May-2023	22.5	2,167.30	22.5					0.00	0.00						
25-May-2023	22.6	2,162.30	22.6					0.00	0.00						
26-May-2023	22.6	2,163.20	22.6					0.00	0.00						
27-May-2023	22.3	2,165.10	22.3					0.00	0.00						
28-May-2023	22.1	2,182.40	22.1					0.00	0.00						
29-May-2023	22.0	2,166.42	22.0					0.00	0.00						
30-May-2023	22.0	2,159.22	22.0					0.00	0.00						
31-May-2023	22.3	2,160.50	22.3					0.00	0.00						
01-June-2023	23.1	2,173.40	23.1					0.00	0.00						
02-June-2023	23.2	2,16													

Title	M1 (Incoming Seawater)			Yara Pilbara Nitrate Discharge Point to MUBRL (W4)										
	Incoming Brine Temp (WaterCorp)	Incoming Seawater Flow	Backup SW Inlet Temp (Desal 1)	Temperature	Conductivity	ORP	pH	Flow	Flow	YPN Temperature Difference (W4-M1)			W4 Conductivity	W4 pH
	°C	m3 / hour	°C	°C	mS/cm	mV		kg/hr	m3/hr	°C			mS/cm	
Tag #	T102006	F102001	1-T15101	61TI001_PV	61AI003_PV	61AI002_PV	61AI004_PV	87FI005_PV	87FI005_PV*0.0010	W4-M1	Minutes >5°C	Hours >5°C	Monthly Average	
09-June-2023	22.3	2,158.11	22.3					0.00	0.00					
10-June-2023	22.5	2,159.70	22.5					0.00	0.00					
11-June-2023	22.8	2,159.70	22.8					0.00	0.00					
12-June-2023	22.8	2,159.50	22.8					0.00	0.00					
13-June-2023	22.5	2,172.06	22.5					0.00	0.00					
14-June-2023	22.4	2,152.20	22.4					0.00	0.00					
15-June-2023	22.6	1,943.12	22.6					0.00	0.00					
16-June-2023	23.5	1,845.43	23.5					0.00	0.00					
17-June-2023	24.1	1,275.44	24.1					0.00	0.00					
18-June-2023		0.00						0.00	0.00					
19-June-2023		0.00						0.00	0.00					
20-June-2023		0.00						0.00	0.00					
21-June-2023		0.00						0.00	0.00					
22-June-2023		0.00						0.00	0.00					
23-June-2023		0.00						0.00	0.00					
24-June-2023		0.00						0.00	0.00					
25-June-2023		0.00						0.00	0.00					
26-June-2023		0.00						0.00	0.00					
27-June-2023		0.00						0.00	0.00					
28-June-2023		0.00						0.00	0.00					
29-June-2023		0.00						0.00	0.00					
30-June-2023		0.00						0.00	0.00					





Monthly Rolling Average (0 is represented as "-" to reduce visual noise)

Date Sampled	Arsenic III	Arsenic V	Cadmium	Chromium III	Chromium VI	Copper	Cobalt	Vanadium	Silver	Selenium	Mercury	Ammonia as ammoniacal nitrogen (NH3-N)	Nickel	Lead	Zinc
UNITS	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Licence Limits	0.14 mg/L	0.275 mg/L	0.036 mg/L	0.459 mg/L	0.0085 mg/L	0.011 mg/L	0.061 mg/L	3.05 mg/L	0.049 mg/L	0.183 mg/L	0.0014 mg/L	30.164 mg/L	0.427 mg/L	0.134 mg/L	0.419 mg/L
4-Jul-22	-	0.0018	-	-	-	0.0006	-	0.0037	-	-	-	2.4000	-	-	0.0063
11-Jul-22	-	0.0018	-	-	-	0.0009	-	0.0037	-	-	-	4.4000	-	-	0.0063
19-Jul-22	-	0.0018	-	-	-	0.0016	-	0.0038	-	-	-	4.9500	-	-	0.0063
25-Jul-22	-	0.0020	-	-	-	0.0022	-	0.0038	-	-	-	5.1250	-	-	0.0063
1-Aug-22	-	0.0020	-	-	-	0.0022	-	0.0039	-	-	-	4.5525	-	-	0.0070
8-Aug-22	-	0.0018	-	-	-	0.0019	-	0.0038	-	-	-	1.9025	-	-	0.0070
16-Aug-22	-	0.0018	-	-	-	0.0014	-	0.0036	-	-	-	0.9475	-	-	0.0070
22-Aug-22	-	0.0018	-	-	-	0.0011	-	0.0033	-	-	-	0.6100	-	-	0.0070
29-Aug-22	-	0.0018	-	-	-	0.0014	-	0.0031	-	-	-	0.9825	-	-	0.0073
5-Sep-22	-	0.0023	-	0.0013	0.0010	0.0014	-	0.0029	-	-	-	1.9325	-	-	0.0073
12-Sep-22	-	0.0023	-	0.0013	0.0010	0.0012	-	0.0029	-	-	-	2.1875	-	-	0.0073
19-Sep-22	-	0.0023	-	0.0013	0.0010	0.0011	-	0.0028	-	-	-	3.0250	-	-	0.0073
28-Sep-22	-	0.0023	-	0.0013	0.0010	0.0011	-	0.0029	-	-	-	2.8750	-	-	-
4-Oct-22	-	0.0020	-	-	-	0.0012	-	0.0031	-	-	-	1.5750	-	-	-
10-Oct-22	-	0.0020	-	-	-	0.0012	-	0.0031	-	-	-	1.9750	-	-	-
17-Oct-22	-	0.0020	-	-	-	0.0013	-	0.0031	-	-	-	1.7750	-	-	-
24-Oct-22	-	0.0023	-	-	-	0.0009	-	0.0030	-	-	-	1.5775	-	-	-
31-Oct-22	-	0.0023	-	-	-	0.0006	-	0.0028	-	-	-	1.5775	-	-	-
7-Nov-22	-	0.0025	-	-	-	0.0003	-	0.0027	-	-	-	0.8925	-	-	-
14-Nov-22	-	0.0025	-	-	-	-	-	0.0024	-	-	-	0.1925	-	-	-
21-Nov-22	-	0.0023	-	-	-	-	-	0.0023	-	-	-	0.1200	-	-	-
28-Nov-22	-	0.0023	-	-	-	0.0004	-	0.0023	-	-	-	1.8200	-	-	0.0080
5-Dec-22	-	0.0023	-	-	-	0.0004	-	0.0025	-	-	-	2.0125	-	-	0.0153
12-Dec-22	-	0.0023	-	-	-	0.0004	-	0.0028	-	-	-	2.1025	-	-	0.0230
19-Dec-22	-	0.0023	-	-	-	0.0007	-	0.0029	-	-	-	2.0900	-	-	0.0230
28-Dec-22	-	0.0023	-	-	-	0.0007	-	0.0030	-	-	-	0.4325	-	-	0.0218
3-Jan-23	-	0.0020	-	-	-	0.0013	-	0.0030	-	-	-	0.3225	-	-	0.0208
9-Jan-23	-	0.0020	-	-	-	0.0015	-	0.0030	-	-	-	0.2375	-	-	0.0203
16-Jan-23	-	0.0018	-	-	-	0.0015	-	0.0029	-	-	-	0.2650	-	-	0.0285
23-Jan-23	-	0.0018	0.0004	-	-	0.0014	-	0.0030	-	-	-	0.4125	-	-	0.0285
30-Jan-23	-	0.0018	0.0004	-	-	0.0009	-	0.0028	-	-	-	2.4650	-	-	0.0293
6-Feb-23	-	0.0018	0.0004	-	-	0.0010	-	0.0028	-	-	-	2.5525	-	-	0.0285
13-Feb-23	-	0.0020	0.0004	-	-	0.0011	-	0.0030	-	-	-	2.4500	-	-	0.0203
20-Feb-23	-	0.0020	-	-	-	0.0012	-	0.0037	-	-	-	2.2600	-	-	0.0135
27-Feb-23	-	0.0020	-	-	-	0.0015	-	0.0038	-	-	-	0.9100	-	-	0.0065
7-Mar-23	-	0.0015	-	-	-	0.0011	-	0.0029	-	-	-	0.8175	-	-	-
13-Mar-23	-	0.0010	-	-	-	0.0007	-	0.0021	-	-	-	0.8000	-	-	-
20-Mar-23	-	0.0005	-	-	-	0.0003	-	0.0007	-	-	-	0.8000	-	-	-
27-Mar-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-Apr-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11-Apr-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18-Apr-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26-Apr-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1-May-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8-May-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15-May-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
22-May-23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
29-May-23	-	0.0005	-	-	-	0.0028	0.0001	0.0007	-	0.0008	-	0.0150	0.0013	-	0.0350
6-Jun-23	-	0.0008	-	0.0013	0.0013	0.0009	0.0001	0.0015	-	0.0015	-	0.0150	0.0013	-	0.0503
12-Jun-23	-	0.0010	-	0.0013	0.0013	0.0012	0.0001	0.0022	0.0011	0.0023	-	0.0150	0.0015	-	0.0778
19-Jun-23	-	0.0010	-	-	0.0025	0.0011	0.0001	0.0022	-	0.0023	-	0.0150	0.0015	-	0.0778
26-Jun-23	-	0.0005	-	-	0.0025	0.0007	-	0.0015	-	0.0015	-	-	0.0003	-	0.0428



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**Attachment 6a: Email Correspondence for Bird Deterrent Approval 25 June 2015**

## Nicole Ivory

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**From:** Rajan Sinha  
**Sent:** Wednesday, 28 September 2016 1:20 PM  
**To:** Susan Giles  
**Subject:** FW: Request to get approval of bird deterrents as per condition 7.1 of MS 870 of YARA PILBARA NITRATE Project

Rajan Sinha  
Technical Services & Business Development Manager  
Operations  
Production  
Site Operations  
Mobile: 0410840369  
Office: (08) 9183 4139  
Email: [rajan.sinha@yara.com](mailto:rajan.sinha@yara.com)



Yara Pilbara Fertilisers Pty Ltd  
Lot 564, Village Road Burrup  
WA 6714 Karratha, Australia  
[www.yara.com](http://www.yara.com)



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**From:** Corbellini, Michelle [mailto:Michelle.Corbellini@DPaW.wa.gov.au]  
**Sent:** Thursday, June 25, 2015 1:48 PM  
**To:** Rajan Sinha  
**Cc:** Wessels, Nigel  
**Subject:** RE: Request to get approval of bird deterrents as per condition 7.1 of MS 870 of YARA PILBARA NITRATE Project

Hi Rajan

Yara fertiliser Pilbara's proposed methodology appears to align directly with the Department of Parks and Wildlife's (Parks and Wildlife) Pilbara Region advice dated 23 April 2015. Parks and Wildlife has no further comments on the proposed bird deterrent methods.

Kind regards

[Michelle Corbellini](#)  
Environmental Project Coordinator  
Pilbara Region

**Department of Parks and Wildlife**  
Locked Bag 104, Bentley Delivery Centre, WA, 6983  
Ph: (08) 9334 0260  
[Michelle.Corbellini@DPaW.wa.gov.au](mailto:Michelle.Corbellini@DPaW.wa.gov.au)





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**Attachment 6b: Bird Deterrent Structures Photos July 2023 and Environmental Inspection Checklist**

1. Clean Surface Water Pond 1 (05/07/2023)



2. Clean Surface Water Pond 2 (05/07/2023)



3. Clean Surface Water Pond 3 (05/07/2023)



4. Contaminated Surface Water Pond 4 (05/07/2023)



5. Contaminated Water Pond 5 (05/07/2023)



6. Clean Surface Water Pond 6 (05/07/2023)



# Environmental Inspection Checklist



YARA PILBARA



LOCATION:	
DATE:	TIME:

**SYSTEMATIC INSPECTION FORM ELEMENT 16: ENVIRONMENT**

A = Acceptable      NI = Needs Improvements      UA = Unacceptable      N/A = Not Assessed

No.	ITEM	COMPLIANCE ACHIEVED				COMMENTS
		A	NI	UA	N/A	
1	Are hydrocarbon spill kits available, ideally located, fully stocked and free of debris / rubbish?					
2	Are chemical spill kits available, ideally located, fully stocked and free of debris / rubbish?					
3	Are bins being used correctly? Is waste being disposed of in correct bin?					
4	Are available bins adequate? Are additional bins required?					
5	Is bin signage adequate?					
6	Is hazardous waste being disposed of appropriately (i.e. no evidence of oil, chemicals, batteries etc. in general waste bins)?					
7	Is waste container capacity/replacement frequency adequate for purpose?					
8	Does hazardous waste storage area require servicing?					
9	Is housekeeping adequate? Is waste present on ground/in drains?					
10	Are ponds/sedimentation basins in good condition?					
11	Do ponds/sedimentation basins require emptying?					
12	Are birds present in ponds/sedimentation basins? Do bird deterrents appear effective?					
13	Are tanks adequately bunded?					
14	Are hazardous materials stored correctly?					
15	Are there any noticeable spills to ground?					
16	Are there any obvious atmospheric emissions?					
17	Is there evidence of a loss of containment, i.e. is there an Ammonia or Nitric Acid smell?					
18	Are weeds in evidence on site? Are drainage channels weed free?					
19	Are animals in evidence on site?					
20	Are the waste water treatment plants operating effectively? Are any alarms in evidence?					
21	Are the off-site infiltration beds adequately storing YPF waste water?					
22	Is plant and equipment free of drips / seepage?					
23	Are water drainage features sufficient?					
24	Is erosion in evidence?					
25	Are heightened noise levels in evidence?					
26	Is there evidence of unseasonal biological growth (green vegetation, algae growth etc.)? Take photos.					

**Required Action:**

**Inspection Team**

Name:	Signature:	Name:	Signature:
Name:	Signature:	Name:	Signature:



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**Attachment 7c: YPN OEMP Approval Letter 15 September 2017**



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**Attachment 8a: National Heritage Place Access Form and Register 2023**



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**Attachment 9A(a): Published Air Quality Monitoring Reports 2023**



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**Attachment 9A(b): Site 7 Relocation Approval Letter and Map of relocation site**



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**Attachment 9B(a): Nitric Acid Stack CEMS data (graph and table), exceedance letters (250-200-LET-DAWE-0019 and 250-200-LET-DAWE-0020) and Stack Testing Results 14<sup>th</sup> July 2022, 21<sup>st</sup> September 2022, 2<sup>nd</sup> December 2022 and 8<sup>th</sup>/9<sup>th</sup> June of 2023 (Ektimo Quarterly Stack testing)**



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**Attachment 10A(d): Department of Climate Change, Energy, the Environment and Water (DCCEEW) Acceptance Letter that Condition 10A(d) is Compliant, dated 7<sup>th</sup> November 2022**



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**Attachment- Site Photos (5<sup>th</sup> July 2023- Site Inspection)**



Condition 8: 2.5 m chain link perimeter fence and signage near western perimeter emergency exit (south side)



Condition 8: 2.5 m chain link perimeter fence and signage near western perimeter emergency exit (north side)- replaced with spare (05/07/2023)



Condition 8: 2.5 m chain link perimeter fence and signage near Integration Road (entrance/exit)



Condition 8: 2.5 m chain link perimeter fence and signage near main entrance/exit-

Turnstiles recently (late May) upgraded to accommodate increased staff numbers over turn-around. Space not available for sign within inside of fence. Sign placed on exterior of fence at exit turnstiles.



Condition 8: 2.5 m chain link perimeter fence and signage near truck parking entrance/exit



Condition 8: 2.5 m chain link perimeter fence and signage near northern perimeter emergency exit (east side)



Condition 8: 2.5 m chain link perimeter fence and signage near north western pedestrian gate