

Tanami Gas Pipeline
Annual Compliance Assessment Report
EBPC 2017 / 7997 – 2023/24

E-REP-089



Revision: 1
Date: 6 August 2024

Document Revision History

Rev	Date	Author	Reviewer	Approver	Revision Description
v1	06/08/2024	JZ Khoo	M Kenny		Issued for review

Table of Contents

1.	INTRODUCTION	2
	1.1 Proponent	2
	1.2 Objective and Scope	2
2.	ACTIVITY DESCRIPTION	4
	2.1 Identified New Risks	4
3.	COMPLIANCE ASSESSMENT	5
4.	REHABILITATION MONITORING	12
	4.1 Native Vegetation Zone	12
	4.2 MNES Habitat Zone (Greater Bilby and Great Desert Skink Habitat) and the MNES Habitat Zone (Night Parrot Habitat)	12
	4.3 MNES Habitat Zone (Princess Parrot Habitat)	12
5.	CONCLUSION	15

List of Tables

Table 3-1: Compliance Status Definitions and Abbreviations	5
Table 3-2: Compliance Assessment	6
Table 4-1: Comparison of Results Against Native Vegetation Rehabilitation Zone Completion Criteria from 2022 to 2024	13
Table 4-2: Assessment of Individual Monitoring Sites within the TNP Against Minimum Standards Outlined in Approved Completion Criteria	14

List of Figures

Figure 1-1: Location of the Tanami Gas Pipeline	3
---	---

Executive Summary

The Department of Climate Change, Energy, the Environment and Water (DCCEEW) is the agency responsible for administering the EPBC Act. The annual compliance report lists the conditions of the EPBC Approval noting if compliance or non-compliance for each condition has been achieved.

The objective of this document is to review the compliance with conditions set out in EPBC 2017/7997. Specifically, the scope of this document covers the period commencing 1 June 2023 through to 31 May 2024.

AGI Tanami Pty Ltd is the approval holder for Tanami Gas Pipeline and is required to submit annual compliance report the DCCEEW until all obligations under these conditions have been met. Condition 1 – Condition 8 and Condition 10 – Condition 20 were all met during the reporting period.

The results from the 2024 Tanami Rehabilitation Monitoring Report are:

- One potential non-compliance was identified against Condition 9 of the EPBC approval. This was related to not meeting all of the rehabilitation completion criteria for the Tanami Gas Pipeline:
 - Three out of the four completion criteria for the native vegetation rehabilitation zones have been met. Weed foliage cover was not met.
 - Three out of four completion criteria for Matters of National Environmental Significance (MNES) Greater Bilby and Great Desert Skink and Night Parrot have been met. Weed foliage cover was not met.
 - Two out of four completion criteria for MNES Princess Parrot have not been met.
- The corrective action for this potential non-compliance is to meet DCCEEW in person to discuss options to meet the completion criteria. These are:
 - Undertake targeted weed management program in 2025
 - To undertake Princess Parrot targeted fauna monitoring in 2025
 - To undertake Princess Parrot targeted flora habitat monitoring in 2025.

1. INTRODUCTION

On 1 June 2018, the Department of Environment and Energy (DoEE, the Department) approved the Tanami Newmont Pipeline (TNP) project under the *Environmental Protection and Biodiversity Conservation Act 1999* (EPBC Act). The TNP is a 440 km natural gas pipeline and associated infrastructure connecting the existing Amadeus Gas Pipeline to the Granites and Dead Bullock Soak mines, near Yuendumu, Northern Territory (NT) (EPBC 2017/7997). The pipeline was in operational phase during the period.

The Department of the Environment and Energy is now the Department of Climate Change, Energy, the Environment and Water (DCCEEW).

1.1 Proponent

The proponent for the project is the AGI Tanami Pty Limited (AGIT) (ACN 622 012 560).

AGIT is operated as part of the Australian Gas Infrastructure Group (AGIG) and is 100% owned by a consortium comprising CK Infrastructure Holdings Limited (CKI), CK Asset Holdings Limited (CKA) and Power Asset Holdings Limited (PAH). These are all part of the CK Group, a leading global investor in energy and other infrastructure, in the UK, Australia and other developed countries.

AGIT relies on the services of DBNGP (WA) Nominees Pty Ltd (DBP), the owner of the Dampier to Bunbury Natural Gas Pipeline (DBNGP), for the provision of labour and equipment to enable AGIT to undertake its business. The services are provided under a support services agreement. DBP is part of AGIG.

1.2 Objective and Scope

The objective of this document is to review the compliance with conditions set out in EPBC 2017/7997. Specifically, the scope of this document covers the period commencing 1 June 2023 through to 31 May 2024.



Figure 1-1: Location of the Tanami Gas Pipeline

2. ACTIVITY DESCRIPTION

During the reporting period the normal operation of the TNP continued. This entailed the following main activities:

- Maintenance and operational activities of the pipeline and associated facilities
- Third-party crossing management and supervision
- Aerial surveillance (Appendix B) and landholder consultation
- Rehabilitation monitoring conducted in May 2024.

2.1 Identified New Risks

No new or additional risks were identified.

3. COMPLIANCE ASSESSMENT

A compliance assessment was conducted against EPBC 2017/7997 for the period 1 June 2023 through to 31 May 2024 (Table 3-2). This assessment was conducted in accordance with the Department of the Environment Annual Compliance Report Guidelines (DoE 2014). All conditions were complied with during the reporting period except condition 9. AGIT met with DCCEEW Thursday 26 April 2024 to discuss that not all rehabilitation specified compliance criteria were met in 2023.

A declaration of accuracy forms part of this submission and is included at Appendix A.

Table 3-1: Compliance Status Definitions and Abbreviations

Compliance Status Terms	Abbrev	Definition
Compliant	C	'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	NC	A designation of 'non-compliance' should be 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	NA	A designation of 'not applicable' should be given where the requirements of a condition or elements of a condition fall outside of the scope of the current reporting period. For example, a condition which applies to an activity that has not yet commenced.

Table 3-2: Compliance Assessment

Condition number	Condition	Status	Evidence / Comments
1	For the protection of listed threatened species, the approval holder must do the following: <ol style="list-style-type: none"> Clear no more than 1,136 ha of vegetation; Not clear any vegetation outside the pipe alignment corridor, except as required to establish up to four work camp sites; Implement the plans referred to in these conditions. 	Compliant	<ol style="list-style-type: none"> No clearing or construction activities were undertaken during the period. No clearing was undertaken in the reporting period. The plans referred to in these conditions or revisions approved under these conditions, continued to be implemented during the reporting period.
2	For the protection of Greater Bilby (<i>Macrotis lagotis</i>) and Great Desert Skink (<i>Liopholis kintorei</i>), the approval holder must do the following: <ol style="list-style-type: none"> Undertake pre-clearance surveys to determine presence of burrows in the construction right of way; Avoid destruction or damage to burrows, including (without limitation) micro-siting the pipeline; Comply with the Trench Clearing Procedure and Construction Environmental Management Plan. 	Compliant	No clearing or construction activities were undertaken during the period.
3	For the protection of Night Parrot (<i>Pezoporus occidentalis</i>), the approval holder must do the following: <ol style="list-style-type: none"> Implement the Night Parrot Management Plan; Notwithstanding any other condition, undertake surveys for Night Parrot in accordance with the Night Parrot Survey Guidelines; If Night Parrot is detected on or in the vicinity of the pipe alignment corridor: <ol style="list-style-type: none"> immediately cease all work within 5 km of the place where Night Parrot was detected; and, notify the Department and Night Parrot Recovery Team; and, 	Compliant	<ol style="list-style-type: none"> The Night Parrot Management Plan continues to be implemented on the project. Previously reported and completed (EPBC 2017/7997 Compliance Assessment Report 2018-2019, E-REP-035). No Night Parrots have been detected in the reporting period No Night Parrots have been detected in the reporting period.

Condition number	Condition	Status	Evidence / Comments
	<ul style="list-style-type: none"> iv. not recommence work within the area specified in condition 3.c.i. until approved by the Minister in writing; d. If one or more Night Parrot individuals is injured or killed, and, in the opinion of the Department, the death or injury arises from or was contributed to in any way by the proposed action or the presence of the approval holder on or in the vicinity of the pipe alignment corridor, the approval holder must report the injury or death to the Department within 48 hours, and contribute \$50,000 per individual to a fund or program nominated by the proponent and approved by the Department. 		
4	For the protection of Dwarf Desert Spike-rush (<i>Eleocharis papillosa</i>), the approval holder must comply with the Construction Environmental Management Plan (CEMP). In particular, the approval holder must avoid disturbance of environmentally sensitive areas by utilising directional drilling methods.	Compliant	The CEMP controls continued to be implemented in terms of waterway crossings and avoidance of environmentally sensitive areas. No clearing or construction activities were undertaken during the period.
5	For the protection of Princess Parrot (<i>Polytelis alexandrae</i>), the approval holder must undertake pre-clearance surveys for Princess Parrot to determine whether Princess Parrot is present in an area proposed to be cleared, and must avoid disturbance of any individuals, especially nesting birds, and must take all reasonably practicable measures to avoid trees containing hollows suitable for breeding.	Compliant	No clearing or construction activities were undertaken during the period.
6	For the protection of listed threatened species, the approval holder must undertake rehabilitation work in accordance with the Rehabilitation Plan.	Compliant	All construction rehabilitation requirements completed as per previous reports. Rehabilitation Plan requirements for monitoring are reported under Condition 8.
7	Notwithstanding any other condition or provision of a plan, unless the Department determines otherwise, the approval holder must continue rehabilitation work until the completion criteria are met for all areas that are subject to the Rehabilitation Plan.	Compliant	All construction rehabilitation requirements completed as per previous reports. Rehabilitation Plan requirements for monitoring are reported under Condition 8.

Condition number	Condition	Status	Evidence / Comments
8	<p>The approval holder must engage a suitably qualified independent expert approved by the Department to assess the level of success of rehabilitation and undertake the following tasks:</p> <ol style="list-style-type: none"> Assess the construction right of way before any clearance is undertaken, to determine and record the baseline condition of the area, and determine the appropriate locations of the monitoring and control sites. Assess the success of rehabilitation three years after substantial completion of the project, to determine the extent that the completion criteria have been met. Produce and submit to the Department a report on the success of rehabilitation (Rehabilitation Report), within three months of the three-year anniversary of substantial completion of the project. If required by the Department, undertake additional assessments, as directed by the Department, until the completion criteria have been met. 	Compliant	<ol style="list-style-type: none"> The Department approved Ecological Australia (ELA) consultants to conduct rehabilitation monitoring as per correspondence 12 August 2018. The construction right of way pre-clearance survey was completed as part of the approvals work in March 2018. As per the Rehabilitation Plan, the first annual monitoring to inform the success of rehabilitation was completed in March 2020 with subsequent annual monitoring being completed. Rehabilitation monitoring is assessed annually post wet season (Mar-June/July) based on the location of the pipeline. Third year Rehabilitation Report (2022) that was due to delay in access to site and COVID impacts was submitted in October 2022. A fifth-year rehabilitation monitoring survey was conducted in May 2024. AGIT is currently in consultation with DCCEEW with the results and completion criteria under Condition 9.
9	<p>If, based on the Rehabilitation Report provided by the approval holder in accordance with condition 8.c., the Department considers that the completion criteria have not been met in respect of a portion of cleared area, the approval holder will be required to provide an offset, in the form of a financial contribution, and may be required to undertake additional rehabilitation activities as specified by the Department. The financial contribution payable by the approval holder will be calculated as follows:</p> $\text{Financial contribution} = \$1,500 \times \text{Area}$ <p>where Area means the area that does not meet the completion criteria, in hectares.</p>	Potential Non-Compliant	<p>Three out of the four completion criteria for the native vegetation rehabilitation zones have been met. Weed foliage cover was not met.</p> <p>Three out of four completion Criteria for Matters of National Environmental Significance (MNES) Greater Bilby and Great Desert Skink and Night Parrot have been met. Weed foliage cover was not met.</p> <p>Two out of four completion criteria for MNES Princess Parrot have not been met.</p> <p>AGIT is currently in consultation with DCCEEW for the completion criteria that has not been met.</p> <p>The corrective action for this potential non-compliance is to meet DCCEEW in person to discuss options to meet the completion criteria. These are:</p> <ol style="list-style-type: none"> Undertake targeted weed management program in 2025 To undertake Princess Parrot targeted fauna monitoring in 2025

Condition number	Condition	Status	Evidence / Comments
			3. To undertake Princess Parrot targeted flora habitat monitoring in 2025.
10	If a financial contribution is payable in accordance with condition 9, the approval holder and the Department will work together to agree on appropriate arrangements before any payment is made, taking into account the potential habitat that was cleared, and the matters of national environmental significance that are likely to have been impacted by the failure to meet the completion criteria in the relevant timeframe.	Compliant	Currently in consultation with DCCEE with the 2024 Rehabilitation Report.
11	The approval holder must advise the Department in writing of the actual date of commencement and substantial completion within 14 days after commencement or substantial completion, as relevant.	Compliant	Previously reported and completed (4 December 2018).
12	The approval holder must maintain accurate records substantiating all activities associated with or relevant to the conditions of approval, including measures taken to implement the plans 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	Records are kept and either supplied to the Department via annual reporting, available on request or through the AGIG website (as per Condition 20). No external audits were completed during construction of the pipeline.
13	Within three months of every 12 month anniversary of commencement, the approval holder must publish a report on its website addressing compliance with each of the conditions of this approval, including implementation of plans as specified in the conditions (compliance report). Documentary evidence providing proof of the date of publication of the compliance report, and non-compliance with any of the conditions of this approval, must be provided to the Department at the same time as the compliance report is published. The approval holder is not required to provide compliance reports after all obligations under these conditions have been met, and two consecutive compliance reports that demonstrate compliance	Compliant	<ul style="list-style-type: none"> This report will be published on the AGIG website (https://www.agig.com.au/articles/tanami-gas-pipeline) as part of the requirements under this condition. Evidence of the publication will be provided to DoEE at the same time in terms of a link to the website. The report will be published prior to 1 September 2024. The previously submitted Annual Compliance Reports are available on the website. The 2024 Rehabilitation Report is included in the annual compliance report.

Condition number	Condition	Status	Evidence / Comments
	with all obligations under these conditions have been provided to the Department.		
14	<p>The approval holder may choose to revise a plan required by these conditions without submitting it for approval under section 143A of the EPBC Act, if the taking of the action in accordance with the revised plan would not be likely to have a new or increased impact. If the approval holder makes this choice they must:</p> <ol style="list-style-type: none"> a. notify the Department in writing that the approved plan has been revised no later than four weeks before implementing the revised plan; b. provide the Department with an electronic copy of the revised plan, and an explanation of the differences (and reasons for them) between the revised plan and approved plan, no later than four weeks before the proposed implementation date for the revised plan; c. implement the revised plan on or after the proposed implementation date unless the Minister gives the approval holder notice that the Minister considers the revised plan is likely to have a new or increased impact; and d. notify the Department of the actual date of implementation of the revised plan. 	Compliant	No revisions were completed in this reporting period.
15	The approval holder may revoke its choice under condition 14 at any time by notice to the Department. If the approval holder revokes the choice to implement a revised plan, without approval under section 143A of the Act, the plan previously approved by the Minister must be implemented.	Compliant	
16	<p>If the Minister gives a notice to the approval holder that the Minister is satisfied that the taking of the action in accordance with the revised plan would be likely to have a new or increased impact, then:</p> <ol style="list-style-type: none"> a. Condition 14 does not apply, or ceases to apply, in relation to the revised plan; and, 	Compliant	

Condition number	Condition	Status	Evidence / Comments
	b. The approval holder must implement the plan previously approved by the Minister.		
17	To avoid any doubt, condition 16 does not affect any operation of conditions 14 and 15 in the period before the day the notice is given.	Compliant	
18	At the time of giving the notice the Minister may also notify that, for a specified period of time, condition 16 does not apply for one or more specified plans.	Compliant	
19	Conditions 14-18 are not intended to limit the operation of section 143A of the EPBC Act, which allows the approval holder to submit a revised plan to the Minister for approval	Compliant	
20	Unless otherwise agreed to in writing by the Minister, the approval holder must publish all plans and reports referred to in these conditions of approval on its website. Each of these documents must be published on the website within one month of being approved by the Minister or being submitted to the Department under the relevant condition.	Compliant	<p>All plans and procedures as referenced in these conditions (as listed below) are published on the AGIG website at (https://www.agig.com.au/articles/tanami-gas-pipeline). Before this all preliminary documentation and plans were available at www.dbp.net.au.</p> <ul style="list-style-type: none"> • Construction Environment Management Plan (CEMP) • Rehabilitation Plan • Trench Clearing Procedure • Night Parrot Management Plan • Night Parrot Monitoring Report (aural and field survey) • Annual Compliance Report 2018/19, 2019/20 and 2020/21, 2021/22, 2022/23. • 2020, 2021, 2022 and 2023 Rehabilitation Monitoring Report.

4. REHABILITATION MONITORING

Eco Logical Australia (ELA) was approved by the Department in August 2018 to undertake the required rehabilitation works under Condition 8 of the approval.

AGIT has conducted five years of rehabilitation monitoring (2020-2024) of the Tanami gas pipeline and has identified success with most of the completion criteria (See Table 4-1 and Table 4-2).

4.1 Native Vegetation Zone

The Native vegetation zone has met all four specified completion criteria.

- Native perennial flora species density has met the specified completion criteria each year since establishment.
- Native flora species richness has met the specified completion criteria each year from establishment
- Native perennial flora species foliage cover has met the completion criteria.
- Weed foliage cover did not meet the completion criteria this year, despite meeting it for the previous four years. In 2024, rehabilitation sites showed a decrease in weed foliage cover from 2% in 2023 to 1.01% in 2024. However, control sites experienced a greater decrease from 2.05% in 2023 to 0.5% in 2024, resulting in higher weed foliage cover in rehabilitation sites compared to control sites this year.

4.2 MNES Habitat Zone (Greater Bilby and Great Desert Skink Habitat) and the MNES Habitat Zone (Night Parrot Habitat)

Three out of the four specified completion criteria have been met for the MNES habitat zone (Greater Bilby and Great Desert Skink habitat) and the MNES habitat zone (Night Parrot habitat).

Native perennial flora species density, native perennial flora species richness and native perennial flora foliage cover has met the completion criteria each year since establishment.

Weed foliage cover has not met the criteria since 2022, with **Cenchrus ciliaris* recorded at two rehabilitation sites in 2024.

4.3 MNES Habitat Zone (Princess Parrot Habitat)

Two out of the four specified completion criteria have been met for the MNES habitat zone (Princess Parrot habitat).

Between 2020 and 2022, native perennial flora species density was over 100% of the control values. However, it decreased to less than 70% of the controls between 2022 and 2023. In 2024, it decreased to 30.5% of the control values.

Native perennial flora species richness consistently met the completion criteria, with values comparable to the controls each year.

Native perennial flora species foliage cover has not met the criteria since establishment, remaining around 50% of the control values since 2021 and decreasing from 48.3% in 2023 to 46.7% in 2024.

Weed foliage cover has consistently met the completion criteria each year since establishment.

Table 4-1: Comparison of Results Against Native Vegetation Rehabilitation Zone Completion Criteria from 2022 to 2024

Aspect	Native vegetation rehabilitation zone completion criteria	Native Vegetation Zone				
		2020	2021	2022	2023	2024
Native flora species density per m ²)	Perennial native flora species diversity is equal to or greater than 50% of that of the adjacent control area.	302.6	325.7	77.6	118.2	52.17
Native flora species richness (per plot)	Perennial native flora species richness is equal to or greater than 50% of that of the adjacent control area and reflects the species composition present in the pre- disturbed habitat type. <i>Note that within 4 m either side of the pipeline, the completion criteria will only apply to ground cover species and not to tree species, which are not suitable to grow in close proximity to the pipeline. Tree species will be allowed to recover outside of the 8 m corridor.</i>	95.1	135.7	109.9	106.2	104.42
Native flora species foliage cover (%)	Percentage of foliage cover of perennial native flora species indigenous to each vegetation community is equal to or greater than 50% of that of the adjacent control area and reflects the pre-disturbed habitat type. <i>Note that within 4 m either side of the pipeline, the completion criteria will only apply to ground cover species and not to tree species, which are not suitable to grow in close proximity to the pipeline. Tree species will be allowed to recover outside of the 8 m corridor.</i>	20.3	46.1	40.9	54.3	69.59
Weed foliage cover: is rehabilitation greater than control (%)?	Percentage of foliage cover of Declared species under the Weeds Management Act, Weeds of National Significance (WONS) and Buffel grass (* <i>Cenchrus ciliaris</i>) is not greater than that of the adjacent control area at 12 months, 24 months and 36 months.	Pass (0% in both Rehab and Controls)	Pass (0% in both Rehab and Controls)	Pass (0% in both Rehab and Controls)	Pass (2% in Rehab Zones vs 2.05% in Controls)	Fail (1.01 in Rehab Zones vs 0.5% in Controls)

Table 4-2: Assessment of Individual Monitoring Sites within the TNP Against Minimum Standards Outlined in Approved Completion Criteria

Aspect	MNES habitat rehabilitation zone completion criteria	Greater Bilby and Great Desert Skink habitat					Night Parrot habitat					Princess Parrot habitat				
		2020	2021	2022	2023	2024	2020	2021	2022	2023	2024	2020	2021	2022	2023	2024
Native flora species density (per m2)	Perennial native flora species density is equal to or greater than 70% of that of the adjacent control area and reflects the Dwarf Desert Spike-rush habitat rehabilitation zone requirements (watercourse/riparian vegetation).	192.6	222.5	173.4	127.9	117.64	192.6	222.5	173.4	127.9	117.64	250.0	133.2	114.2	68.3	30.55
Native flora species richness (per plot)	Perennial native flora species richness is equal to or greater than 70% of that of the adjacent control area and reflects the species composition present in the pre-disturbed habitat type. <small>Note that within 4 m either side of the pipeline, the completion criteria will only apply to ground cover species and not to tree species, which are not suitable to grow in close proximity to the pipeline. Tree species will be allowed to recover outside of the 8 m corridor.</small>	70.0	106.7	93.6	102.0	97.48	70.0	106.7	93.6	102.0	97.48	79.7	112.3	85.7	88.6	88.17
Native flora species foliage cover (%)	Percentage of foliage cover of perennial native flora species indigenous to each vegetation community is equal to or greater than 70% of that of the adjacent control area and reflects the pre-disturbed habitat type. <small>Note that within 4 m either side of the pipeline, the completion criteria will only apply to ground cover species and not to tree species, which are not suitable to grow in close proximity to the pipeline. Tree species will be allowed to recover outside of the 8 m corridor.</small>	11.5	49.4	63.6	97.8	83.9	11.5	49.4	63.6	97.8	83.9	17.8	35.2	53.4	48.3	46.74
Weed foliage cover: is rehabilitation greater than control (%)?	Percentage of foliage cover of Declared species under the Weeds Management Act, Weeds of National Significance (WONS) and Buffel grass (* <i>Cenchrus ciliaris</i>) is not greater than that of the adjacent control area at 12 months, 24 months and 36 months.	Pass	Pass	Fail	Fail	Fail	Pass	Pass	Fail	Fail	Fail	Pass	Pass	Pass	Pass	Pass

5. CONCLUSION

During the reporting period, AGIT conducted operations in compliance with the approved CEMP and the Operations Environment Plan approved by the NT Department of Primary Industry and Resources.

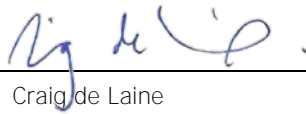
There continued to be no Night Parrots found (or evidence of) during operations.

Annual rehabilitation monitoring commenced in 2020 and continues with the fifth-year monitoring completed in May 2024. AGIT is currently in consultation with the Department regarding Condition 9.

Appendix A: Declaration of Accuracy

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 (please print)

Craig de Laine

Position (please print)

Chief Executive Officer

Organisation (please print including
ABN/ACN if applicable)

AGI Tanami Pty Limited – ABN 21 622 012 560

Date

30 August 2024

Appendix B: Aerial Surveillance Report


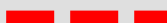


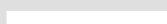
AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

SURVEILLANCE REPORT MUST BE EMAILED TO THE FOLLOWING ASAP AT THE COMPLETION OF THE FLIGHT

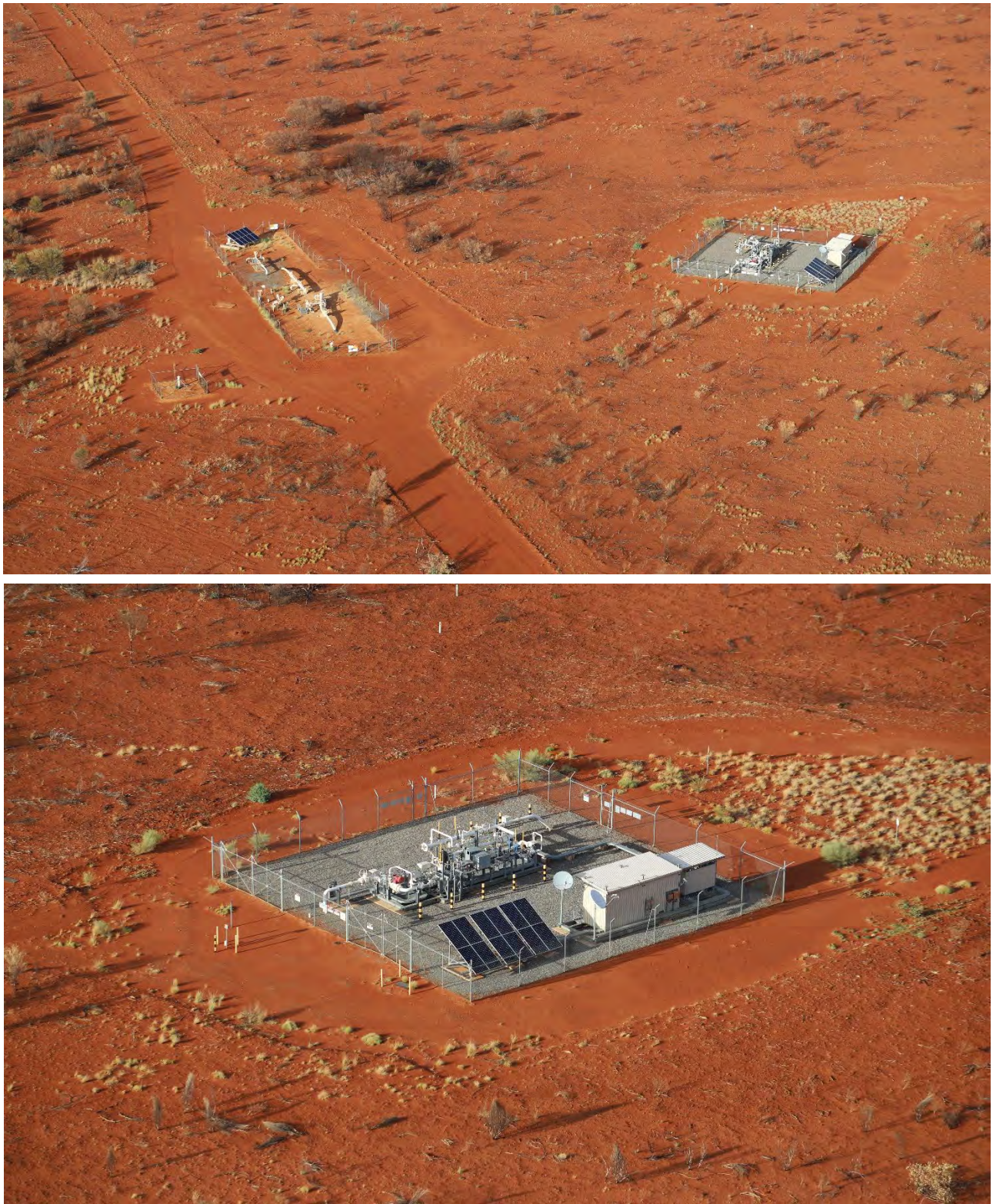
Rakai, Tawake
tawake.rakai@agig.com.au

Smith, James
james.smith@agig.com.au

Aircraft Type	Pilot Name	Area Covered	Weather Conditions (temp; visibility, wind and rain)	
VH-LXM	James Griffith	TNP Inlet Station – DBS Mine M/S	Clear skies, 27-42 degrees, light Northerly winds.	
Work Order Number	Employee Name	Date of Surveillance	Engine On Time	Engine Off Time
1001556300	Jeff Bentley	22-02-2024	06:45	15:10
AGIG REV	DATE	APPROVED RELEASE	BY	CHK/APPR
0	26-02-2024	Issued for information	N/A	N/A
Summary of Report	<ul style="list-style-type: none"> Recent small scrub fire has occurred in close proximity to the Tilmouth compound. Page 4. Subsidence has occurred over the Tanami Pipeline. Page 41 & 42. Fallen Danger sign observed at KP 436.64. Page 49. Updated images and information of facilities & points of interest. Known activities in proximity to the AGIG reportable pipelines, associated laterals and assets. 			
Note:	Images of facilities and other general points of interest obtained during the surveillance flight are not necessarily included in this report due to no new activity being observed. Should any images or further information be required please contact Manager Facilities, Facilities Lands Team Leader or the Aerial Surveillance Team. Aerial Surveillance activities are conducted as per DBP-WI-PMC-PIP-06			
Legend:	Easement and Pipe locations are only approximations of actual locations. <ul style="list-style-type: none">  Easement boundary  Extended easement boundary  Pipeline  Areas of interest  Heritage areas 			

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Location	Comment
NP Inlet Station & Inlet Pipe KP 0	<ul style="list-style-type: none"> All appeared correct and secure at the facility. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

TGP-03
KP 11.63

- Below image updates previously reported water erosion on the easement, depth is approximately 200mm below NGL at the closest point to the pipeline.
- ASO's to continue to monitor.
- GPS 53S 262673E 7455106N refers.



New Well Rd
KP 13.44

- The road crossing appeared to remain in good condition.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Tilmouth
Road House
Compound

- A recent small scrub fire has occurred in close proximity to the Tilmouth compound.



- Tilmouth compound remains without issue and secure.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 34.620

- No change observed as previously reported to erosion on the upstream side of the Napperby Creek.
- Average 400mm wash out over pipeline and 35m long; 700mm depth of cover at lowest section.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Napperby
Creek
KP 34.655

- Below image shows the current condition of the creek.
- Upstream bank had significant damage but no major changes since Feb 2021.

February 2024:



January 2021:



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Napperby
Station
Access Road

- Below image shows the current condition of the access road.



KP 40.01

- No major changes observed to the existing erosion at the T3 water crossing.

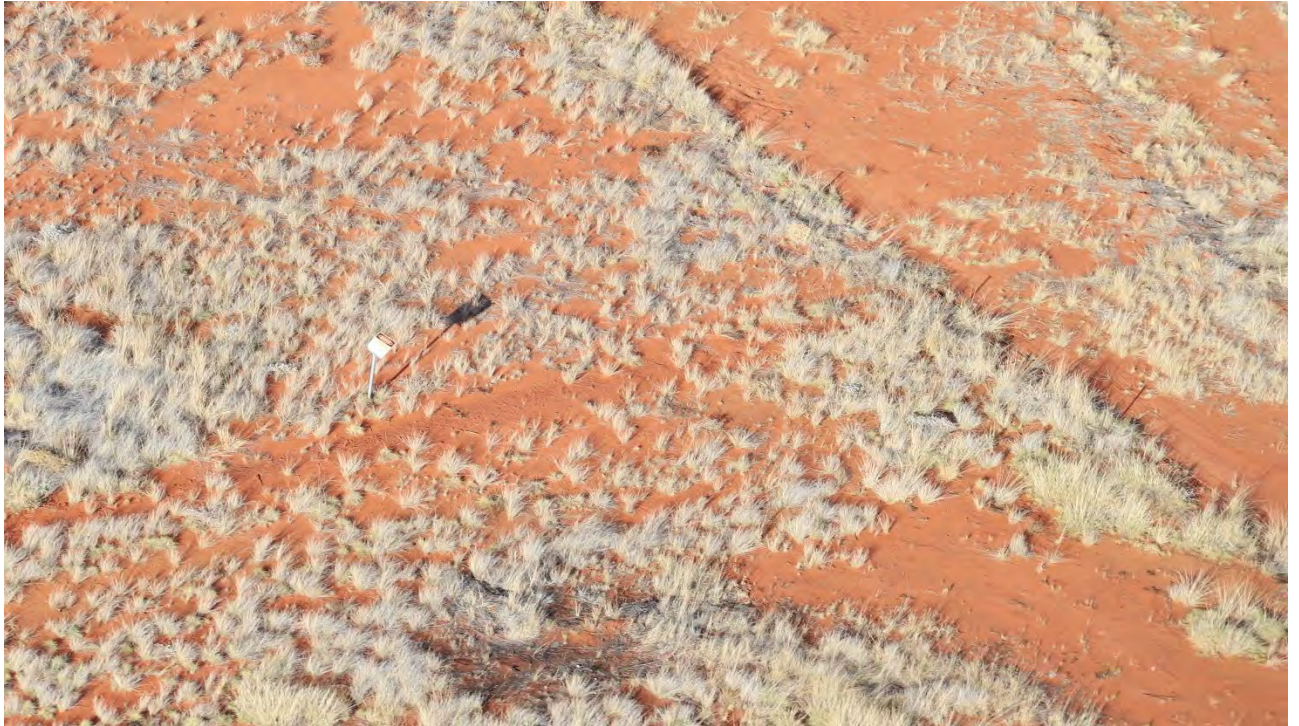


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

TGP-03
KP 42.620

- Below image details a Danger sign has been bent over at KP42.620.
- GPS 53 S 246954E 7478399S refers.



KP 47.500

- Below image depicts erosion remains as previously reported at a water course crossing the easement.
- KP 47.500 and GPS 53 S 242831E 7480991S refers.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

TGP-03
KP 48.590

- Below image details the current condition of the easement and a track crossing at TGP-03, KP 48.590.



Gravel Track
to Pulardi
KP 72.90

- Below image shows the current condition of the track to Pulardi.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Pulardi Rd
Gravel to
Laramba
KP 78.51

- Below image shows the current condition of the track.



Yeulamu Rd
Gravel
KP 100.15

- Below image shows the current condition of the track.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

TGP-06
KP 114.50

- Below image updates sporadic subsidence over the pipeline from KP 114.540 to approximately KP 115.000. This subsidence doesn't pose a threat to the asset.
- ASO's to continue monitoring.

February 2024:



January 2021:



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Road to Bore
& Gravel Pit
KP 119.99

- Below image shows condition of the road to the Gravel Pit.



KP 133.60

- Image below shows no significant changes observed to the erosion developing across the pipeline at this location.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 137.66

- T3 water course crossing the pipeline remains in good condition.



Yuendumu Rd
KP 137.92

- Road crossing appeared in good condition.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Bookmark
Ave
KP 140.04

- Road crossing remains in good condition, post upgrade works.



KP 140.22

- Image below shows no significant changes to the natural water course forming across the pipeline at this location.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Track to
Yuendumu
Airport Gravel
KP 140.88

- Road crossing appeared in reasonable condition.
- A small scrub fire has crossed over the easement since previous report, Danger signage remains readable.



Rd to
Yuendumu
Airport
Intersection
KP 143.85

- Road crossing appeared in reasonable condition.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

SS1
Yuendumu
KP 144.91

- All appeared correct and secure.



Truck Turning
& Parking Bay
KP 147.39

- No significant changes observed to these crossings.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 148.48

- Image below details the current condition of 1 of 3 approved H.V crossing points as part of the Tanami Road upgrade project, completed by Exact Contracting.
- Most upstream crossing pictured below remains in good condition.



KP 148.48

- Central and downstream crossing pictured below; both remain in good condition.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Mission Creek
T2
KP 153.04

- Appeared to remain in good condition.



Mission Creek
T3
KP 153.39

- Appeared to remain in good condition.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 153.57

- Known and previously reported erosion paralleling the pipeline remains without change.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Keridi Creek
Tributary T2
KP 155.00

- Creek appears to be in reasonable condition and no significant change to erosion observed since the time of last flight.
- The erosion appears to be at least 1m in depth on the D/S bank.

February 2024:





January 2021:



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>ROW KP 155.67</p>	<ul style="list-style-type: none"> • A natural water course forming across the pipeline in this location. • Helicopter landed October 2023; erosion appears to be approximately 400mm in depth, with 1000mm of cover remaining over the pipe. 
<p>Keridi Creek Tributary T2 KP 156.29</p>	<ul style="list-style-type: none"> • Below image details moderate water erosion developing across the pipeline downstream of the Keridi Creek tributary, no change since the previous flight; erosion appears to be approximately 300-400mm in depth. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Mount Doreen
Station Rd
KP 159.93

- No issues observed at the crossing.
- Previously reported vehicle activity to the South of the easement remains without change.



KP 160.89 –
KP 161.50

- Below image shows one of a few water catchment areas in the easement within this section.
- Surface water has reduced significantly since mid 2023.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Tanami Rd
Camp 2 /
Laydown
vehicle
crossing
KP 170.62

- The Tanami Rd Camp 2/ Laydown area crossing remains in good order. The camp is no longer in use and has been rehabilitated.



Gintys Bore
Access Road
KP 173.10

- No change to the current condition of the road crossing.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 177.31

- Below image shows an approved H.V crossing constructed by Exact Contracting at this location.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Watercourse
T3
KP 177.70

- The watercourse across the easement remains in good condition. Previously reported erosion downstream of the watercourse remains without change.





KP 177.94

- Below image shows an approved H.V crossing constructed by Exact Contracting at this location.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>KP 178.78</p>	<ul style="list-style-type: none"> Below image shows the current condition a of previously reported subsidence over the Tanami pipeline area. Helicopter landed and confirmed the depth hasn't changed since previous inspection (December 2023) subsidence remains approximately 900mm below NGL, leaving approximately 600mm of cover over the pipeline. This remains unchanged since the location was inspected in April 2023. 
<p>Yaloojarrie Creek T1 & Tributaries KP 179.96 – KP 181.36</p>	<ul style="list-style-type: none"> Image below shows works associated with the Tanami Road Upgrade in proximity to the corridor. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Yaloojarrie
Creek T1
& Tributaries
KP 179.96 –
KP 181.36

- No significant changes observed to the creek and its tributaries.



Yaloojarrie
Creek T1
& Tributaries
KP 179.96 –
KP 181.36

- No significant changes observed to the creek and its tributaries.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

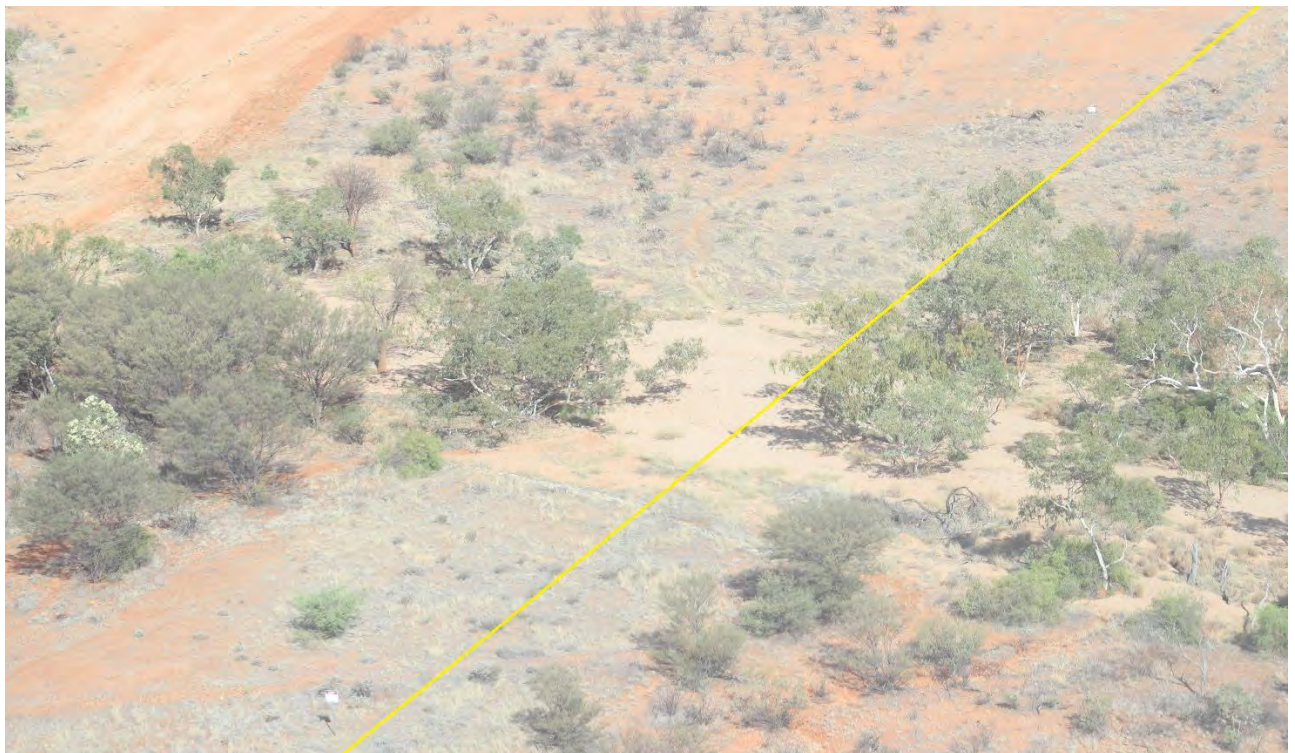
KP 181.14

- Image below shows a track that has been graded across the corridor at this location.
- This does not align with the list of approved crossings initially provided by Exact contracting; enquiries continue.



Yallogarrie
Creek
Tributarie
KP 184.36

- No change observed to the creek tributaries, rock pitching areas covered by vegetation overgrowth.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Yaloojarrie
Creek
Tributaries
KP 188.90 –
189.24

- The water crossing at this location appeared in good condition; rock pitching covered by overgrowth.



KP 191.61

- Image below depicts an ad hoc crossing / clearing that has not been previously observed.
- This does not align with the list of approved crossings initially provided by Exact contracting; enquiries continue.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 191.83

- Below image shows some moderate erosion developing close to a known T3 water crossing.
- The image depicts the surface seems to have stabilised with vegetation growing in this channel.

February 2024:



April 2023



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 196.74

- Below image shows an approved H.V crossing constructed by Exact Contracting at this location.



KP 199.07
Construction
Camp Exact
Contracting

- Below image shows main camp and laydown area, utilised by Exact Contracting for the next stage of the Tanami Road upgrade.
- Camp has been relocated, only some earth works equipment and materials remain.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 199.07
Construction
Camp Exact
Contracting

- Heavy vehicle crossing (No. 11) leading into the decommissioned camp over the pipeline remains in good condition.



KP 201.52

- Below image shows Exact Contracting clearing the entrance to a slip road in very close proximity to the easement; no encroachments were observed.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 206.11

- Below image shows the activity surrounding the previously reported major erosion and washout.
- New headwall and drainage culverts have been installed to direct surface water to this pre-existing channel across the pipe corridor as part of the Tanami Road upgrade.
- Increased water flow may lead to further erosion across the pipe; ASO's will continue to monitor.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 206.11

- Below image shows previously reported major erosion and washout over the easement.
- Marker tape is exposed but actual loss of cover over the pipeline is approximately 200 - 300mm.

February 2024:



January 2021:



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Gravel Road
KP 218.100

- No change observed to the current condition of the track crossing.



KP 228.39

- Below image shows an approved H.V crossing (No.12) built up by Exact Contracting for works associated with the Tanami Road Upgrade.
- No change to the previously reported wheel ruts in close proximity to the pipeline.

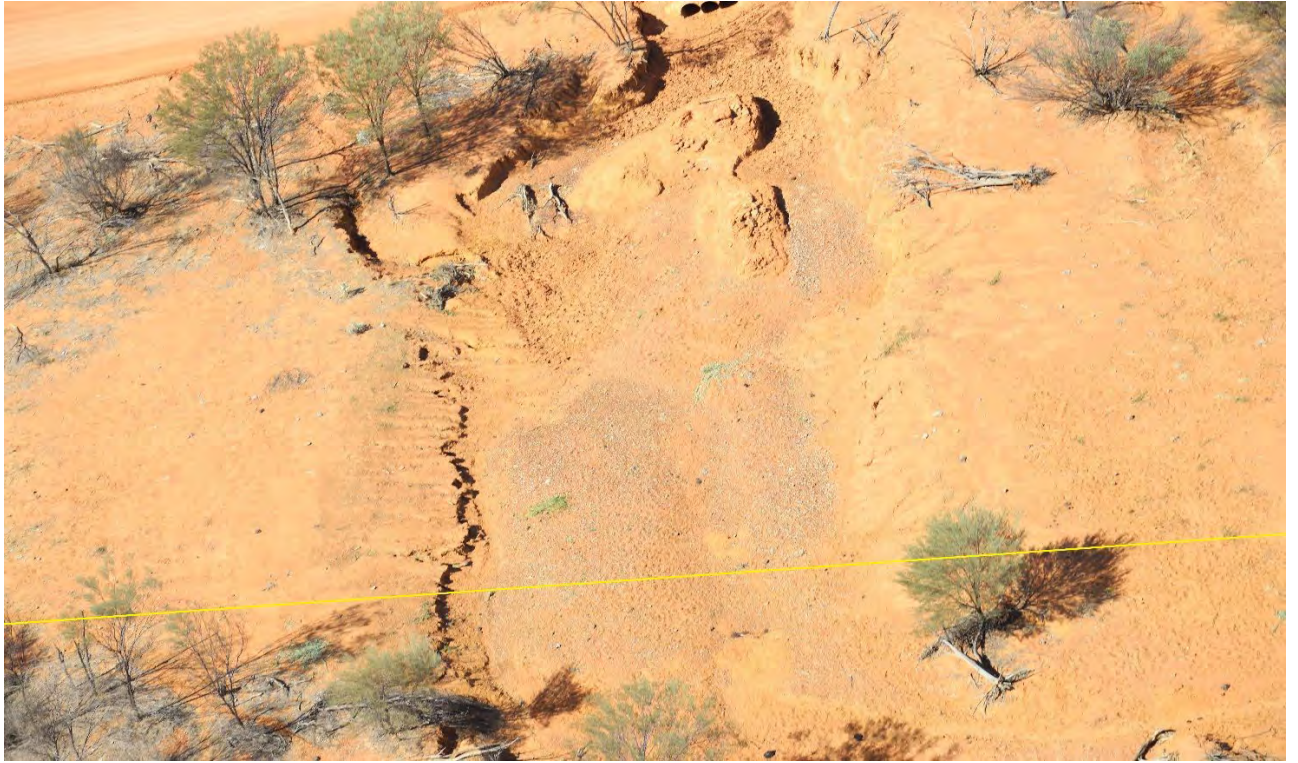


AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 229.61
Water Course
T3

- No change observed to the previously reported erosion on the upstream bank of the unnamed watercourse.
- ASO's to continue monitoring.



KP 234.41

- Below image updates previously reported erosion on the edge of the pipeline crown.
- ASO's to continue monitoring.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 241.18

- No major changes observed to the significant erosion on the upstream bank of the swale drain.
- Helicopter landed August 2023 and measured remaining DoC at 2100mm



KP 254.63

- Temporary drainage culverts have been installed to direct surface water to this pre existing channel across the pipe corridor.
- Increased water flow may lead to further erosion across the pipe; ASO's continue to monitor.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Mount Theo
Road
KP 263.24

- Mount Theo Road Crossing is in good condition.



Watercourse
T2 Chilla Well
KP 266.64

- All appeared correct at the watercourse at KP 266.640.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 268.41

- All appears correct at the track crossing.




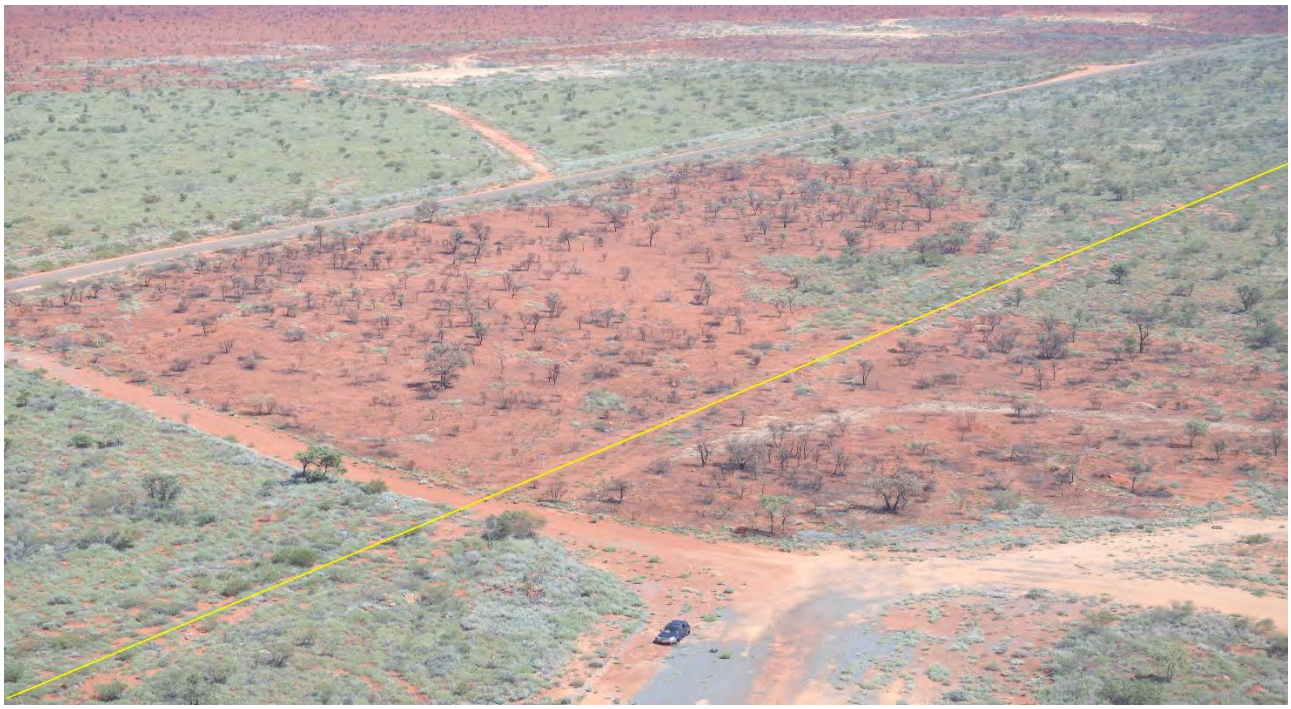
KP 272.35

- Road to the pre-existing borrow pit has been built up and is being utilised as access.
- This activity has been approved by LM and all appears correct.





AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>SS2 Chilla Well KP 279.37</p>	<ul style="list-style-type: none"> • Appeared correct and secure at the facility. • No significant changes observed to the previously noted erosion; 400mm deep, 600mm wide and approximately 4 metres long. 
<p>KP 323.83</p>	<ul style="list-style-type: none"> • Access track and truck turn around site in proximity to the easement appears in good condition. • A recent small scrub fire has passed over the easement on the downstream side of the track, Danger signage remains readable. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>KP 335.14</p>	<ul style="list-style-type: none"> • Access track to the gravel extraction site in proximity to the easement appears in good condition. • Moderate erosion observed just upstream of the track, remains unchanged. 
<p>KP 365.00</p>	<ul style="list-style-type: none"> • Below image details subsidence has occurred over the Tanami Pipeline. The NGL has dropped by approximately 200mm leaving an electronic DOC of 1500mm remaining. • ASO's to continue monitoring. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 366.95

- Below image details subsidence has occurred over the Tanami Pipeline. The NGL has dropped by approximately 100mm leaving an electronic DOC of 1600mm remaining.
- ASO's to continue monitoring.



KP 385.45

- All correct at the road crossing; vegetation on the downstream side is now impacting line of sight.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Mount Davidson / Billabong Borefield Rd
KP 390.58

- All correct at the road crossing; vegetation on the downstream side is now impacting line of sight.





KP 395.10
Granites Airstrip

- Recent rain has increased vegetation in the area, line of sight issues developing.





AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>KP 397.50 Granites Airstrip</p>	<ul style="list-style-type: none"> • Image below shows recently formed drainage channels from the airstrip directed to the pipe corridor. • Recent rain has increased vegetation in the area, line of sight issues developing. 
<p>Off take / Valve for Granites Lateral KP 397.84</p>	<ul style="list-style-type: none"> • All appeared correct; no changes to the previously reported drill pads cleared in proximity to the lateral. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

<p>Granites Lateral</p>	<ul style="list-style-type: none"> No change to the previously reported erosion observed on the easement. This does not pose a threat to the asset. 
<p>Granites Meter Station KP 0.69</p>	<ul style="list-style-type: none"> All appeared correct and secure; vehicle DBP238 observed inside compound. 

AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Setlist Hills
Borefield Rd

- Below image shows the current condition of the road crossing. No issue observed.



KP 402.77

- Below image depicts vehicle activity over the Tanami pipeline has occurred on an access track leading to the Granites mine site tailing ponds. Wheel ruts have occurred due to recent wet conditions.
- Full depth of ruts is unknown until water dissipates.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 406.15

- Below image shows the current condition of the Swale Drain at this location.
- Vegetation either side of the drain is hindering line of sight as previously reported.



KP 436.07

- Recent heavy rains in the area remain in the Swale Drain.
- All appeared correct at time of flight.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 414.00 –
437.00

- Previously reported significant scrub fire that burnt through the area between KP 414.00 and KP 437 has sporadically damaged approximately 89 Danger signs through this area, leaving only one side of the signage readable.
- A W/O will be raised for the signage requiring replacement.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 436.64

- Below image details a fallen Danger sign, this will be rectified as part of the burnt signage plate replacement works.



DBS Haul
Road
KP 436.99

- Below image shows the current condition of the haul road crossing point.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

Mine Road
KP 437.45

- Below image shows the Mine Road crossing the pipeline remains in good condition.
- Previously reported water erosion on the easement remains clear of pipeline. This poses no threat to the asse at this stage.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

KP 439.47

- No significant changes observed to the previously reported significant erosion confirmed at 670mm in depth.



AERIAL SURVEILLANCE REPORT

Tanami Gas Pipeline

DBS Meter
Station & Haul
Road
KP 440.00

- All appeared correct and secure.

