

Regional Planning Interests Act 2014

Assessment application form

Approved under section 94 of the *Regional Planning Interests Act 2014*. Version 2.0 is effective from 13 August 2015.

Before lodging your application

- read RPI Act Guideline 01/14 *How to make an assessment application for a regional interests development approval under the Regional Planning Interests Act 2014* here: www.dilgp.qld.gov.au/RPIAct
- consider contacting the RPI Act Development Assessment Team on 1300 967 433 or email RPIAct@dilgp.qld.gov.au for general queries, or to request a pre-application discussion on the proposed application.

Purpose of application form

This form is to be used when making an assessment application for a regional interests development approval (RIDA) under the *Regional Planning Interests Act 2014* (RPI Act).

Definitions

Expressions highlighted in bold italic type have the same meaning as in the RPI Act or in regulations made under the RPI Act.

How to make the Assessment Application

Section 29 of the RPI Act states:

An assessment application must be—

- made to the chief executive in the approved form; and*
- accompanied by a report—*
 - *assessing the resource activity or regulated activity's impact on the area of regional interest; and*
 - *identifying any constraints on the configuration or operation of the activity; and*
- accompanied by the fee prescribed under a regulation.*

The applicant must complete all sections of the form either on the form or as an attachment.

Where to lodge

Provide **1 electronic copy** and **2 hard copies** of the completed application form and the supporting information to the chief executive:

- **Email** RPIAct@dilgp.qld.gov.au
- **Post** RPI Act Development Assessment Team DILGP, PO Box 15009, City East QLD 4002
- **Hand deliver** RPI Act Development Assessment Team DILGP, Level 6, 63 George Street, Brisbane.

(For hand deliveries, contact the RIDA Development Assessment Team on 1300 967 433).

1. Property description of the land the subject of the application <i>Identify all lots or parts of lots on which the activity is proposed, and the total area of disturbance. Provide a map.</i>			
Lot on Plan description (e.g. Lot 1 RP 12345)	Lot 2 on RP111930		
Street address/suburb/locality and post code	662 Hennings Road, Springvale Qld 4405		
Closest town	Dalby		
2. Application details <i>Attach a map that clearly shows all relevant areas of regional interest on the land the subject of the application and the corresponding proposed location of the proposed activity/ies.</i>			
Identify the area/s of regional interest (ARI) in the application area and the area of the ARI to be disturbed			
Area of regional interest (ARI)	Area of disturbance	Area of regional interest (ARI)	Area of disturbance
<input checked="" type="checkbox"/> Priority agricultural area	___0.068___ ha	<input type="checkbox"/> Priority living area	___ ha
<input checked="" type="checkbox"/> Strategic cropping area	___0.068___ ha	<input type="checkbox"/> Strategic environmental area	___ ha
Identify the resource or regulated activity			
<input type="checkbox"/> Resource activity: mining and other resource activities (not petroleum and gas). (Add the type of mining on this form (e.g. coal, bauxite))			
<input checked="" type="checkbox"/> Resource activity: petroleum and gas			
<input type="checkbox"/> Regulated activity - broadacre cropping (Only relevant where the application relates to a strategic environmental area)			
<input type="checkbox"/> Regulated activity - water storage (dam) (Only relevant where the application relates to a strategic environmental area)			
Provide a detailed description of the proposed activities <i>Provide a description of the proposed activities for which approval is sought, location and the surface area of the activities.</i>			
Area of regional interest	Activity	Location	Total area of disturbance (ha)
PAA	Longswamp gathering	Portion of Lot 2 of RP111930	0.068ha
SCA	Longswamp gathering	Portion of Lot 2 on RP111930	0.068ha
Provide a description of current land use <i>Provide a description of what the land is currently being used for (e.g. horticulture, irrigated cropping, dryland grazing, nature conservation, residential, manufacturing and industrial, etc.) and the surrounding land within a 1km radius. Attach a map that clearly shows the area and location of all existing land uses and activities on the land the subject of the application, and within a 1km radius of the boundaries of the land that is the subject of the application.</i>			
See attached report + appendices			
3. Supporting information to accompany this application			
Report + appendices			

4. Other relevant information to accompany this application <i>Attach map/s to identify the location of this information and lot on plan details.</i>		
Are there any <i>resource authorities</i> or applications for <i>resource authorities</i> over all or part of the land the subject of the application? (e.g. for exploration or resource development)	<input checked="" type="checkbox"/> Yes <i>Petroleum Lease 198 (granted)</i>	<input type="checkbox"/> No
Is there a <i>SCL protection decision</i> over all or part of the land the subject of the application?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Is there an <i>environmental authority</i> (EA) over all or part of the land the subject of the application?	<input checked="" type="checkbox"/> Yes <i>Permit No. EPPG00972513</i>	<input type="checkbox"/> No
Are there any easements over any part of the land the subject of the application?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Attach a current title search for each lot or part of a lot the subject of the application (NOTE: the searches must be obtained within 3 business days prior to making the application.)	<input checked="" type="checkbox"/> Tick to confirm title searches are attached.	
Is an exemption from public notification for the assessment application under section 34(3) of the RPI Act sought?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
5. Land owner details		
Name of all land owner/s	Arrow (Tipton) Pty Ltd ABN 17 114 927 507	
Postal address/s	Level 39, 111 Eagle Street, Brisbane QLD 4000	
Telephone/mobile number/email address/s	As above	
Is the applicant the owner (as defined in schedule 1 to the RPI Act) of the land the subject of the application?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No <i>(Identify the land that is not owned by the applicant)</i>
Is it necessary, under section 30 of the RPI Act, to provide a copy of the application to the owner of the land? (NOTE: proof of delivery will be required.)	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
6. Applicant/authorised person details <i>Section 28 of the RPI Act prescribes who may be the applicant for a RIDA for a resource activity or regulated activity to be carried out in an area of regional interest. The decision about the application is issued to the applicant. The applicant need not be the owner of the land. The authorised person is the contact person for the applicant and need not be the applicant. However, formal documents, such as any requirement notice and the decision about the application, will be sent to the applicant at the address for service stated below.</i>		
Applicant/s name (individual or company name in full), include ABN or ACN number if applicable	Arrow CSG (Australia) Pty Ltd ABN 54 054 260 650 Arrow (Tipton Two) Pty Ltd ABN 36 117 853 755 Arrow (Tipton) Pty Ltd ABN 17 114 927 507	
Applicant's postal address and email address for service	Level 39, 111 Eagle Street, Brisbane QLD 4000	
Authorised contact person for applicant: name, position and company	Suzanne Ferguson Principal Advisor, Government Relations	
Contact phone number and mobile number	3012 5020	
Contact email address	Suzanne.ferguson@arrowenergy.com.au	

7. Electronic documentation		
Does the applicant consent to receiving documents relating to this assessment application, required or permitted to be provided under the <i>Regional Planning Interests Act 2014</i> or any other statute, in an electronic format?		<input checked="checked" type="checkbox"/> Yes <input type="checkbox"/> No
8. Application fee (<i>Fees are prescribed in the Regional Planning Interests Regulation 2014</i>)		
Amount payable	\$9074.00	
Reference number (Contact RIDA assessment team for a reference number)	RPI16/006/ARROW	
Payment option (Contact RIDA assessment team for account details)	<input checked="checked" type="checkbox"/> Direct deposit Date deposited: 15.12.2016	
	<input type="checkbox"/> Cheque attached	
9. Use and Disclosure of Information Statement		
<p>The information is collected in accordance with the RPI Act and will be used by Queensland Government Agencies for the processing and assessment of your assessment application, and may involve the chief executive:</p> <ol style="list-style-type: none"> and other officers of the DILGP, and any consultants engaged by or on behalf of the chief executive, reviewing the information provided for the purpose of considering and assessing your assessment application providing a copy of the assessment application to relevant Queensland Government Agencies prescribed as assessing agencies for the assessment application (including the local government), the Gasfields Commission or any person asked to provide advice or comment on the assessment application. <p>The assessment application and the accompanying report will also be made publically available on the DILGP website from the time the assessment application is made until the time it lapses or is withdrawn or, if is decided, until the end of the last period during which an appeal may be made against a decision on the application. However, information will not be made publicly available on the DILGP website to the extent that it is provided by an owner of land (as defined in schedule 1 to the RPI Act) (an <i>owner</i>) who is not the applicant, and is commercial-in-confidence or personal information, and that owner has not consented to its disclosure, or to the extent that it is information which is considered to be sensitive security information.</p> <p>Where an application proposes a resource or regulated activity in a priority agricultural area (PAA) and the applicant is required to provide information about the productive capacity or operation of a priority agricultural land use to address the prescribed solutions in the Regional Planning Interests Regulation 2014 (Schedule 2, Part 2), the information is to be provided in a separate document attached as an appendix to the assessment application report and the application must:-</p> <ul style="list-style-type: none"> identify the source of the information provided, including whether the information was provided by an owner other than the applicant state whether an owner other than the applicant agrees to the information being made publicly available on the DILGP website; and if so <ul style="list-style-type: none"> provide the express written agreement of that owner to the information being made publicly available on the DILGP website. <p>If an owner, other than the applicant, does not provide express written agreement, the information will not be made available on the DILGP website with the other application information. You may also be required to publicly notify your application. A notice about the chief executive's decision relating to your application will also be publicly notified.</p> <p>Your personal details will not be disclosed for a purpose outside this assessment process, except where required by legislation (including the <i>Right to Information Act 2009</i>). This information may be stored in a database by DILGP.</p> <p>The information collected will be retained as required by the <i>Public Records Act 2002</i>.</p>		
10. Declaration		
<input checked="checked" type="checkbox"/> By making this application, I declare that all the information in this application is true and correct and that I have read and understood the ' <i>Use and Disclosure of Information statement</i> ' on this form.		
Please see attached declaration		
Signature of applicant/authorised person		Print name and position Date
Office use only	Date received	
	RIDA reference number	
	Source number	

10. Declaration


Executed by Arrow CSG (Australia) Pty Ltd ABN 54 054 260 650



Signature of Director



Name of Director



Signature of Director / Secretary



Name of Director / Secretary

Executed by Arrow (Tipton Two) Pty Ltd ABN 36 117 853 755



Signature of Director



Name of Director



Signature of Director / Secretary



Name of Director / Secretary

Executed by Arrow (Tipton) Pty Ltd ABN 17 114 927 507



Signature of Director



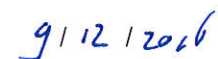
Name of Director



Signature of Director / Secretary



Name of Director / Secretary



Execution Date

Longswamp Gathering

Assessment Application for Longswamp Gathering within
Lot 2 on RP111930 under the *Regional Planning
Interests Act 2014*

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1. Purpose

The purpose of this assessment application is to provide supporting information to obtain a Regional Interest Development Approval (RIDA) for proposed petroleum activities within an Area of Regional Interest (Priority Agricultural Area and Strategic Cropping Area) under the *Regional Planning Interests Act 2014* (RPI Act).

The temporary expected area of impact of the proposed petroleum activities on the Subject Land is approximately 0.068Ha.

1.1 Overview

Section 29 of the RPI Act requires that an assessment application must:

- Assess the resource activity or regulated activity's impact on the area of regional interest; and
- Identify any constraints on the configuration or operation of the activity.

The *RPI Act Guideline 01/14 – How to make an assessment application for a regional interests development approval under the Regional Planning Interests Act 2014* provides further guidance about the matters to be addressed by an assessment application. These requirements and the sections where they are addressed within this assessment application are listed in Table 1.1.

Table 1-1: Assessment Application Information Requirements

Information Requirement	Section Addressed
The location, nature, extent (in hectares) and duration of the surface impacts of the proposed activity.	Refer to section 2, 3 & 4
A description of the impact of the proposed activities on the feature, quality, characteristic or other attribute of the area.	Refer to section 3 & 4
Include a table identifying the location and surface area of each of the proposed activities.	Refer to section 2
The report must also include an explanation of how the proposed activity will meet the required outcome/s and address the prescribed solution/s contained in the assessment criteria for the area of regional interest.	Refer to section 8

1.2 Applicant

The Applicant for this assessment application is the resource authority holder for PL198, Arrow CSG (Australia) Pty Ltd ABN 54 054 260 650; Arrow (Tipton Two) Pty Ltd 36 117 853 755 and Arrow (Tipton) Pty Ltd 17 114 927 507 (see **Appendix A**). The owner of the land that is subject to this application is Arrow (Tipton) Pty Ltd ACN 114 927 507 (see **Appendix B & C**).

The Applicant has been developing gas since 2000, commercially supplying it since 2004 and now delivers almost 20 per cent of Queensland's natural gas from five fields in the Bowen and Surat basins, in central and southern Queensland.

With over 1000 gas wells, the Applicant is able to supply gas to Townsville (235MW), Daandine (33MW) and Braemar 2 (450MW) power stations, as well as local and industrial users in Townsville and Moranbah.

2. Description of Work Activities

2.1 Background

Arrow is further developing existing gas production on its existing petroleum tenements including additional gathering (gas & water) lines (see **Appendix D & E** for further details).

The majority of the proposed petroleum activities for purposes of this assessment application are not subject to a Regional Interests Development Approval (RIDA). This includes proposed petroleum activities located on Lot 2 & 3 on RP860821, north of the land that is the subject of this assessment application. The applicant has obtained a voluntary Conduct and Compensation Agreement (CCA) with the affected landholder in this regard (dated 4 November 2016; Ref: 102698CNT).

However, in order to tie-in the proposed additional gathering (gas & water) with the existing pipelines on the Applicant's land (Lot 2 on RP111930) additional new gathering (approximately 10 metres) is required. This small portion (the Subject Land) of the proposed petroleum activities does not meet the section 22 exemption of the RPI Act as the resource authority holder is also the owner of the land. A RIDA is therefore required as no other RPI Act exemptions apply.

The proposed petroleum activities include the construction of approximately 10 metres of gathering (gas & water) lines, including:

- Site preparation utilising the existing access track and disturbed areas
- Dig trench within the identified Right of Way (ROW) and stockpiling of existing materials
- Installation of gathering (gas & water) lines via 2 x 160mm diameter high density polyethylene pipes (HDPEs)
- Backfill of the trench using existing materials
- Undertaking reinstatement and rehabilitation of the ROW
- Undertaking inspections and monitoring on a periodic basis

2.2 Definition of Work Activities

The table below outlines the definition of work activities:

Activity	Definition
Construction Installation and commissioning the gathering within the RoW. Reinstatement and rehabilitate the expected area of impact.	Construction of gathering that allows for the transfer of both gas and water lines (pipelines approximately 10m in length). The HDPE pipes are to be buried to a

	<p>minimum depth of 900mm in a standalone trench located within a 30m wide Right of Way (ROW).</p> <p>Reinstate and rehabilitate the Right of Way</p> <p>Complete commissioning of the gathering system.</p>
Post-construction Inspect, operate and maintain the installed gathering lines. Inspect and maintain the rehabilitated RoW.	Carry out regular inspections of the condition of the RoW and signage Carry out maintenance as required Monitor rehabilitation activities as required.

2.3 The Land and Subject Land

The Land and Subject Land is described in Table 2.2 below:

Table 2-2: Land and Subject Land

Item	Description
Land	Lot 2 on RP111930
Area of Land	326.10Ha (area subject to this assessment application is 0.068ha)
Property Name	Glenelg
Land Owner	Arrow (Tipton) Pty Ltd ABN 17 114 927 507
Land Purchased	18 June 2007
Local Government	Western Downs Regional Council (formerly Wambo Shire Council)
Zoning	Rural
Regional Plan	Darling Downs Regional Plan
Area of Regional Interest	Priority Agricultural Area (PAA) and Strategic Cropping Area (SCA)
Subject Land	Portion of Lot 2 on RP111930
Expected Area of Impact on the Subject Land	0.068Ha

2.3.1 Current Land Use

The current land use of the Land includes infrastructure related to existing petroleum activities:

- Production wells
- Access tracks
- Water pipelines
- Gas pipelines

- Dams

The Land is used by the Applicant or leased for agricultural production, cropping and grazing. Due to the nature and limited extent of the expected area of impact the proposed petroleum activities will not have any effect on the current use of the Subject Land.

The temporary expected area of impact (0.068Ha) will be largely contained within an area comprising an existing access track. The existing access track is primarily used as part of the monitoring regime associated with existing petroleum activities on the Subject Land.

2.3.2 Surrounding Land Uses

The existing surrounding land uses comprise areas used for productive rural purposes, such as cropping, grazing of beef cattle and the ongoing operation of existing petroleum activities.

2.4 Existing authorities

The Land is subject to two existing authorities described in Table 2.3 below:

Table 2-3: Existing authorities

Tenure	PL198
Tenure granted	09.12.2004
Tenement Holder	Arrow (Tipton) Pty Ltd – 42% Arrow (Tipton Two) Pty Ltd – 28% Arrow CSG (Australia) Pty Ltd – 30%
Environmental Authority	Permit No: EPPG00972513 (effective 8 November 2016) Project Name: Dalby Expansion Project

2.5 Location of Longswamp Gathering

Please see the following Appendices in relation to the Locality Map and Site Plan:

Appendix D – Locality Map – Longswamp Gathering – showing the Land the subject of the assessment application and the existing land use on surrounding land within a one kilometre radius.

Appendix E - Site Plan – Longswamp Gathering – showing the location of the additional gathering (gas & water) lines (approximately 10 metres) with the existing pipelines on the Applicant's land with an expected area of impact of 0.068 Ha (30m wide ROW).

Photo 1 – shows the location of the proposed petroleum activities on the Subject Land, including the location of the existing access track.



Photo 2 – shows the approximate location of the proposed petroleum activities looking to the east.



Photo 3 – shows the approximate location of the proposed petroleum activities tie-in looking to the north.



3. Areas of Regional Interest

3.1 Priority Agricultural Area

PAAs are strategic areas, identified on a regional scale, that contain significant clusters of the regions' high value intensive agricultural land uses. The PAA surrounding the Subject Land does include areas of high value intensive agricultural land uses, in particular areas of dryland and irrigated cropping.

Within the PAA, Priority Agricultural Land Uses (PALU) is given priority by ensuring that the location of resource activities is sympathetic to these uses.

3.1.1 Assessment of Priority Agricultural Land Use

The *RPI Act Guideline 07/14: How to identify a priority agricultural land use (PALU)* was consulted to determine if the Subject Land within the Darling Downs Regional Plan is, or has been, utilised as PALU. This is summarised in section 3.1.5.

3.1.2 Australian Land Use Management

The Land is located within the Darling Downs Regional Plan and the Western Downs Regional Council planning scheme. The PALUs specific to the PAAs mapped in the Darling Downs regional plan are largely land uses and practices associated with class 3.3 (cropping), 3.4 (perennial horticulture), 3.5 (seasonal horticulture), 4 (production from irrigated agriculture and plantations) and 5.1 (intensive uses) in accordance with the Australian Land Use Management (ALUM) classification (Version 7 May 2010).

A search at the secondary level of the ALUM classification for the Subject Land generally identifies the area within the cropping and irrigated cropping classes.

3.1.3 Frequency of Agricultural Activity

Schedule 2 of the RPI Regulation states that:

For land or property in relation to PALU, means the land or property has been used for a PALU for at least 3 years during the 10 years immediately before an assessment application is made in relation to the land.

To determine the frequency of agricultural activity, Forage Crop Frequency Reports (Reports) (see **Appendix F**) were obtained for the Land. The results of the Reports conclude the following:

- Approximately 5-7 crops were recorded during 2006-2016

However, the Subject Land (i.e. 0.068 Ha) that is the subject of this assessment application is contained within an area that typically has no history of being cropped whilst within the ownership of the Applicant and there is a lack of recent evidence to indicate that historical activities on the Subject Land are on land identified as PALU. It is considered this may be due to the fact that this area has been used for access purposes and is at the northern extremity of agricultural activities that have occurred on the Land.

3.1.4 Further site investigations

Further investigations have been conducted on the Land in relation to the location of the proposed petroleum activities and the existing activities that have occurred on the Land since it was purchased by the Applicant in 2007. This have been validated as follows:

2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Sorghum			Chickpeas	Sorghum		Barley			

However as above, the Subject Land (i.e. 0.068 Ha) that is the subject of this assessment application is contained within an area that typically has no history of being cropped whilst within the ownership of the Applicant and there is lack of recent evidence to indicate that historical activities on the Subject Land are on land identified as PALU.

As provided in **Photo 1-3**, the Subject Land is not currently being used for agricultural purposes, but instead, for an existing access used to monitor existing petroleum activities on the Subject Land, with limited application for PALU since 2007.

Given the expected area of impact and the extent and duration of disturbance, the proposed petroleum activities will therefore only

temporarily disturb the expected area of impact (0.068Ha) and will not result in the permanent removal of any PALU land.

3.1.5 Conclusions on PALU

The proposed petroleum activities will only temporarily impact on PALU as, as defined under the RPI Act.

3.2 Strategic Cropping Area

The SCA consists of the areas shown on the SCL trigger map as Strategic Cropping Land (SCL). SCL is land that is, or is likely to be, highly suitable for cropping because of a combination of the land's soil, climate and landscape features.

The Subject Land is within the SCA. The extent and duration of disturbance (see section 4) and the assessment of the proposed petroleum activities (see section 8) address the issues relating to SCA.

4. Extent and Duration of Disturbance

The extent and duration of the proposed petroleum activities is as follows:

4.1.1 Expected Area of Impact

- Priority Agricultural Area –0.068Ha
- Strategic Cropping Area –0.068Ha

The temporary expected area of impact (25 x 30m wide ROW) intersects with an existing access track and is adjacent to the property boundary away from historically cultivated areas. Please see **Photo 1-3**.

4.1.2 Expected Duration

In relation to duration of disturbance, the proposed petroleum activities will be constructed for the entire project within a period of approximately 6 weeks. Construction of the gathering (gas and water) lines that tie-in to the existing pipeline will take approximately 2 weeks with the expected area of impact also accommodating equipment and plant machinery for a period of approximately 3 weeks.

The proposed buried pipelines (i.e. gathering) will be in operation for approximately 30 years, prior to being decommissioned and rehabilitated.

Refer to Section 5 below for further details on the management of mitigation measures such as construction activities, reinstatement and rehabilitation, commissioning, operation activities and decommissioning the proposed petroleum activities with the expected area of impact.

5. Management of Mitigation Measures

5.1 Assessment of Alternatives

As the new gathering is proposed to tie-in to the existing pipeline on the Subject Land, there are no alternative locations for the gathering.

To the greatest extent possible, the construction and operation footprint of the proposed petroleum activities has been minimised (0.068.Ha).

5.2 Construction Activities

Arrow will construct and operate the proposed petroleum activities within the expected area of impact (0.068Ha). The new gathering will be constructed in accordance with the requirements of AS2885 the Australian Pipeline Industry Association Code of Environmental Practice – Onshore Pipelines (October 2013) (APIA 2013) and Arrow's Standard ORG:ARW:PIP-DET-0001 and ORG:ARW:PPL:DET:00055 (see **Appendix G & H**).

The construction of the new gathering is similar to that of other linear infrastructure. The length of time that construction activities pass any one point is limited. Pre-existing land use will continue to be uninterrupted following the completion of construction, reinstatement and rehabilitation.

The 30m wide ROW will provide access along the proposed gathering for clearing, activities associated with the construction and delivering of the pipe and supplies, and for personnel to safely and efficiently carry out and complete construction.

The gathering trench on the Subject Land that is the subject of this assessment application will be open for the minimum time practicable and will be backfilled and restored within approximately six weeks of the trench excavation (also see section 4.1.2 above).

Construction will temporarily cease during wet weather to minimise impacts to the land and soil runoff.

5.3 Reinstatement & Rehabilitation

Reinstatement and rehabilitation measures will be applied to all areas disturbed during construction as soon as practical following the completion of the proposed petroleum activities.

All reinstatement and rehabilitation will be carried out in accordance with the Environmental Authority requirements. Generally, this will include:

- Stockpiling of grasses, woody vegetation
- Segregation of topsoil to ensure topsoil integrity
- Reinstatement of the land contours/land surface and drainage
- Reinstatement of topsoils
- Implementation of stabilisation measures.

The land will be returned as close as possible to its previous state and use, and the land will be visually consistent with the surrounding land features. Periodic monitoring will be undertaken to ensure integrity of the rehabilitation

Detailed erosion and sediment control measures will also be implemented and maintained consistent with the Environmental Authority during construction, and as required following construction.

Other reinstatement activities will include:

- Removal of any foreign construction material and waste
- Restoration of fencing as required
- Reinstatement of existing access track

5.4 Gathering Markers

Above ground markers will be designed and installed in accordance with AS2885. They will indicate the location of the gathering, and will be installed during ROW reinstatement.

The markers will be erected at intervals along the pipeline where they are visible and will be positioned at points which do not interfere, either directly or indirectly, with the Areas of Regional Interest (including PALU) in that they will not be installed on cultivation land or in a way that inhibits ongoing use of the access track.

5.5 Commissioning

Commissioning of the new gathering will commence at the completion of construction. Commissioning will occur following the flow of gas and water to the pressures determined by the gathering specifications to allow operation.

5.6 Operation Activities

The gathering will be operated in accordance with AS 2885 and the APIA Code.

Operational maintenance activities will ensure that the integrity of the gathering infrastructure is maintained over the life of the project. Skilled staff will be deployed to undertake scheduled or unscheduled maintenance activities.

Other ongoing activities will be required to support its operation, including:

- Monitoring and maintenance associated with the existing access track and RoW
- Slashing and weed management

Access to the site for operations and maintenance will be undertaken according to the Land Access Code and the requirements of the relevant legislation.

Routine and scheduled maintenance activities will be conducted so that they cause minimum disruption to existing farm management and operations by managing vehicle movements, ensuring compliance with relevant weed and pest management practices and minimising stock injury and loss. Generally, works

will temporarily cease during wet weather to minimise impacts to the land and soil runoff.

5.7 Decommissioning

Any decommissioning of inactive buried gathering will be undertaken in accordance with the requirements of AS 2885.

6. Public Notification

In accordance with the RPI Regulation, an assessment application is currently notifiable if the area of regional interest in which the resource activity is proposed to be carried out is a Priority Living Area (PLA).

As provided by this assessment application, the proposed petroleum activities are being undertaken within the PAA and SCA only.

The proposed petroleum activities are subject to an Environmental Authority (EPPG00972513) issued by the DEHP dated 8 November 2016. Arrow has held a number of community engagement sessions regarding our activity in this area over the past few years. In particular, sessions were held in 2012 during EIS consultation, with subsequent sessions held in November 2013 and June 2016. Additionally, Arrow operates a Community Information Centre in Dalby which deals with day-to-day inquiries about our activities. Arrow also holds regular meetings with our community committees (the Arrow Surat Community Reference Group and the Arrow Intensively Farmed Land Committee), both of which have been briefed on Regional Planning in general and specific activities as relevant.

Given the very limited nature and extent of the proposed petroleum activities within this assessment application, as well as the Applicant being the landholder, it is not considered that public notification will be required. As referenced in section 2.1 above, a voluntary CCA has recently been finalised with the neighbouring property to the north.

7. Assessment Application Fees

This assessment application must be accompanied by the fee prescribed under the RPI Regulation.

Schedule 4 of the RPI Regulation provides a definition of an expected area of impact for an assessment application, which means the area in which:

- The activity is proposed to be carried out; and
- Carrying out the activity is likely to have an impact

Given the proposed petroleum activities and the expected area of impact 0.068Ha (see section 4.1.1. above), the following assessment application fees are therefore applicable:

Area of Regional Interest	Nature of assessment application	Fee
Priority Agricultural Area	Complies with the prescribed	\$3025

	solution for required outcome 1	
Strategic Cropping Area	Expected area of impact of less than 30 hectares	\$6049

8. Required Outcome Assessment

8.1 Priority Agricultural Area

The PAA Assessment Criteria provides two required outcomes for activities in PAAs; one that deals with impacts on a property level, and a second that deals with impacts on a regional level. As the proposed petroleum activities are limited to the Subject Land, impacts on a regional level (Required Outcome 2) are not applicable for the purposes of this assessment application.

Schedule 2, Part 2 of the RPI Regulation sets out the Required Outcome and prescribed solutions for activities carried out in a PAA. Refer to Table 9.1 for evidence associated with the prescribed solution of Required Outcome 1.

Table 9.1: PAA Assessment Criteria – Required Outcome 1

Required Outcome 1 Managing impacts on use of property for priority agricultural land use in a priority agricultural area	
The activity will be carried out on a property in a priority agricultural area and will not result in a material impact on the use of the property for a priority agricultural land use	
Prescribed Solution	Evidence/Response
The application demonstrates the activity will not be located on land that is used for a priority agricultural land use	
a) If the applicant is not the owner of the land and has not entered into a voluntary agreement with the owner <ul style="list-style-type: none"> i. The applicant has taken all reasonable steps to consult and negotiate with the owner about the expected impact of carrying out the activity on each priority agricultural land use for which the land is used; and ii. Carrying out the activity on the property will not result in a loss of more than 2% of both <ul style="list-style-type: none"> A. The land on the property used for a priority agricultural land use; and B. The productive capacity of any priority agricultural land use on the property 	The applicant is the owner of the land and has entered into a voluntary Conduct and Compensation Agreement in relation to the proposed petroleum activities between Arrow (Tipton) Pty Ltd A.C.N 114 927 507); Arrow (Tipton Two) Pty Ltd ABN 36 117 853 755; Arrow CSG (Australia) Pty Ltd 54 054 260 650 and Arrow (Tipton) Pty Ltd A.C.N 114 927 507 and Y (dated 24 November 2017 – Our ref: 101998CNT_V00001).
(b) the activity cannot be carried out on other land that is not used for a priority	As evidenced by section 3.1.5 the land is not currently being used as

agricultural land use, including for example, land elsewhere on the property, on an adjacent property or at another nearby location;	PALU. To meet engineering requirements the gathering (gas and water) lines require connection to the existing pipelines at the proposed locations.
c) the construction and operation footprint of the activity on the part of the property used for a priority agricultural land use is minimised to the greatest extent possible	As evidenced by section 4 and section 5.1 the land is not currently being used as PALU. In any case, the expected area of impact is minimised to the greatest extent possible.
d) the activity will not constrain, restrict or prevent the ongoing conduct on the property of a priority agricultural land use, including, for example, everyday farm practices and an activity or infrastructure essential to the operation of a priority agricultural land use on the property	As evidenced by section 3.1.5 the land is not currently being used as PALU. In any case, outside the construction period, the proposed petroleum activity will not constrain, restrict or prevent the ongoing use of the Subject Land as an access track or the land within the expected area of impact.
e) the activity is not likely to have a significant impact on the priority agricultural area	As evidenced by section 3.1.5 the land is not currently being used as PALU. Although it is identified within the PAA, the Subject Land has been used for the purposes of an access track or the land within the expected area of impact. The proposed petroleum activity will not have a significant impact on PAA as the expected area of impact is minimised to the greatest extent possible and the existing use of the Subject Land is not cropping.
f) the activity is not likely to have an impact on land owned by a person other than the applicant or the land owner mentioned in paragraph (a).	The proposed petroleum activities, due to the nature and extent of the expected area of impact, will not have an impact upon the adjoining landowner. The adjoining landowner has existing petroleum activities on their land which are subject to an existing voluntary Conduct and Compensation Agreement.

8.2 Strategic Cropping Area

The proposed petroleum activity is also located within the Strategic Cropping Area (SCA). Schedule 2, Part 4 of the RPI Regulation sets out the required outcome and prescribed solutions for activities carried out in an SCA. Table 9.2a and Table 9.2b below contain the evidence associated with each prescribed solution.

Table 9.2a: SCA Assessment Criteria – Required Outcome 1

Required Outcome 1 No Impact on strategic cropping land
--

The activity will not result in any impact on strategic cropping land in the strategic cropping area	
Prescribed Solution	Evidence/Response
The application demonstrates the activity will not be carried out on strategic cropping land that meets the criteria stated in schedule 3, part 2.	This assessment application does not seek to demonstrate that the expected area of impact is not SCL.

Table 9.2b: SCA Assessment Criteria – Required Outcome 2

Required Outcome 2 Managing impacts on strategic cropping land (SCL) on property in the strategic cropping area	
The activity will not result in a material impact on strategic cropping land on the property (SCL)	
Prescribed Solution	Evidence/Response
The application demonstrates all of the following:	
a) If the applicant is not the owner of the land and has not entered into a voluntary agreement with the owner – the applicant has taken all reasonable steps to consult and negotiate with the owner about the expected impact of carrying out the activity on strategic cropping land	The applicant is the owner of the land and has entered into a voluntary Conduct and Compensation Agreement in relation to the proposed petroleum activities (dated 4 November 2016 Our Ref: 102698CNT).
(b) the activity cannot be carried out on land that is not strategic cropping land, including for example, land elsewhere on the property (SCL), on adjacent land or at another nearby location;	There are no alternative locations for the proposed petroleum activity. It is necessary to tie-in to the existing pipeline at the location identified within the Subject Land.
c) the construction and operation footprint of the activity on strategic cropping land on the property (SCL) is minimised to the greatest extent possible	The expected area of impact of the proposed petroleum activity on SCL has been minimised to the greatest extent possible, demonstrated by the following: <ul style="list-style-type: none"> – Being primarily located within an area previously disturbed, which is being utilised as an access track and not as SCL – The expected area of impact has been minimised to the greatest extent possible while ensuring minimum requirements for safety, construction, temporary access tracks, stockpiling areas and adequate erosion and sediment controls.
d) if the activity will have a permanent impact on strategic cropping land on a property (SCL) – no more than 2% of the strategic cropping land on the property (SCL) will be impacted	The proposed activity will not have a permanent impact on SCL as the expected area of impact will be rehabilitated to its pre-activity condition, as an access track, as soon as reasonably practical.

8.2.1 Strategic Cropping Land Compliance Certificate

A Strategic Cropping Land Compliance Certificate was approved on 29 April 2014 for petroleum activities within PL 198 (see SCLRD2014/000178).

Under the transitional provisions within section 103 of the RPI Act, a Strategic Land Compliance Certificate is taken to have been issued a Regional Interests Development Approval for the resource activity.

However, as the proposed petroleum activities were not part of the Strategic Cropping Land Compliance Certificate (the resource activity subject of the original application), a Regional Interests Development Approval is being sought via this assessment application.

9. Appendices

- **Appendix A:** PL198 Resource Authority Public Report
- **Appendix B:** Current Title Search
- **Appendix C:** Current Survey Plan
- **Appendix D:** Locality Plan: Longswamp Gathering
- **Appendix E:** Site Plan: Longswamp Gathering
- **Appendix F:** Forage Report: Crop Frequency
- **Appendix G:** Standard Drawing – ORG-ARW-PIP-DET-00001 – *standard wellpad design: hot tap tie-in detail: general arrangement*
- **Appendix H:** Standard Drawing – ORG-ARW-PPL-DET-00055 – Polyethylene Pipeline: Branch tree cross section

10. Definitions

Definitions of terms used in this Assessment Application:

Term	Definition
Applicant	Arrow (Tipton) Pty Ltd A.C.N. 114 927 507
EHP	Department of Environment and Heritage Protection
EP Act	<i>Environmental Protection Act 1994</i>
FA	Financial Assurance
Ha	Hectare
PAA	Priority Agricultural Area
PALU	Priority Agricultural Land Use
PL	Petroleum Lease
Property	Lot 2 on RP111930
Proposed petroleum activities	See section 2.1
Reports	Forage Crop Frequency Reports
RIDA	Regional Interests Development Approval
ROW	Right of Way
RPI Act	<i>Regional Planning Interests Act 2014</i>
RPI Regulation	<i>Regional Planning Interests Regulation 2014</i>
SCA	Strategic Cropping Area

Term	Definition
SCL	Strategic Cropping Land
Subject Land	Portion of Lot 2 on RP111930

PL 198 Resource authority public report

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▼ Permit details

Permit ID:	PL 198
Permit name:	
Status:	Granted
Lodged date:	29/01/2003
Grant date:	09/12/2004
Commencement date:	09/12/2004
Expiry date:	08/12/2034
Plan/program expiry date:	30/06/2020
Current term:	30 years
Conditions:	
Locality:	TIPTON WEST FIELD, TOWN OF DALBY, SURAT BASIN
Remarks:	
Act permit granted under:	Petroleum Act 1923
Act now administered under:	Petroleum and Gas (Production and Safety) Act 2004

▼ H o l d e r s

Authorised holder representative (AHR)

PAMC, Vlad
C/- Tenement Manager GPO Box 5262 Brisbane QLD 4001

Holders

Holder name	Share %	Status	Held from	Held to	Authorised holder
* ARROW CSG (AUSTRALIA) PTY LTD	30.000000000000	Current	05/10/2010		No
* ARROW (TIPTON TWO) PTY LTD	28.000000000000	Current	09/03/2010		No
* ARROW (TIPTON) PTY LTD	42.000000000000	Current	18/01/2010		Yes
SHELL CSG (AUSTRALIA) PTY LTD	12.000000000000	Former	09/03/2010	05/10/2010	
SHELL CSG (AUSTRALIA) PTY LTD	18.000000000000	Former	18/01/2010	05/10/2010	
ARROW (TIPTON TWO) PTY LTD	40.000000000000	Former	09/09/2009	09/03/2010	
ARROW (TIPTON) PTY LTD	60.000000000000	Former	22/02/2008	18/01/2010	
BEACH PETROLEUM (SURAT) PTY LTD	40.000000000000	Former	22/02/2008	09/09/2009	
ARROW (TIPTON) PTY LTD	100.000000000000	Former	03/10/2007	22/02/2008	
ARROW ENERGY NL	100.000000000000	Former	23/04/2007	03/10/2007	
ARROW ENERGY NL	80.000000000000	Former	09/12/2004	23/04/2007	
COMET RIDGE LTD	20.000000000000	Former	09/12/2004	23/04/2007	
ARROW ENERGY NL	100.000000000000	Former	29/01/2003	09/12/2004	

Tenancy type: Tenancy in Common

Area

Location:	View Map
Mining district:	Dalby
Local authority:	Toowoomba Regional Council, Western Downs Regional Council
Area:	85 Sub-blocks
Exclusions:	
Marked out date:	

Sub-blocks

BIM	Block	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Brisbane	2751	A	B					G	H	J	K	L	M	N	O	P	Q	R				V	W			
Brisbane	2752	A	B				F	G	H			L	M	N												
Brisbane	2822																									Z
Brisbane	2823	A	B				F	G				L	M				Q	R				V	W	X		
Brisbane	2894					E				J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Brisbane	2895	A	B	C			F					L					Q					V	W			
Brisbane	2966	A	B	C	D	E	F	G	H	J		L	M	N	O		Q	R	S	T		V	W	X	Y	Z
Brisbane	2967	A	B																							

Background land

No data available

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
39185	PWL - "Tipton #153"		SPRINGVALE		
37933	PWL TIPTON 24, TIPTON 23	07/09/2006	GRASSDALE & CECIL PLAINS		
38286	PWLs - "Tipton #26(A), 103, 120, 121, 122, 123 & 124"	04/01/2008	CECIL PLAINS		
38302		04/01/2008	GRASSDALE		
38303	PWLs - "Tipton #35, #36, #42, #43, #50 & #51"	04/01/2008	GRASSDALE		
38304	PWLs - "Tipton #93, 94, #95, #98, #99 & #102"	04/01/2008	CECIL PLAINS		
38296	PWLs - "Tipton #58, 59, 60 & 66, 67, 68"	04/01/2008	GRASSDALE		
38297		04/01/2008	GRASSDALE		
38298		04/01/2008	GRASSDALE		
38299	PWLs - "Tipton #39, #40, #47, #54, #54A, #55 & #105."	04/01/2008	GRASSDALE		
38300	PWLs - "TIPTON #37, #38, #44, 45, #46, #52 & #53."	04/01/2008	GRASSDALE		
38301	PWLs - "Tipton #45, #69 & #76"	04/01/2008	GRASSDALE		
38290		04/01/2008	SPRINGVALE & GRASSDALE		
38291		04/01/2008	SPRINGVALE		

Plan No.	Description	Date received	Locality	Volume	Folio
38292	PWLs "Tipton #48, #49, #56, #57, #57A, #106 & 107"	04/01/2008	GRASSDALE		
38293	PWLs " Tipton #79, #85, #86, #92 & #112"	04/01/2008	GRASSDALE		
38294	PWLs "Tipton #77, #78, #83, #84, #90 & #91"	04/01/2008	GRASSDALE		
38295	PWLs " Tipton #73, 74, 75, 80, 81, 82, 87, 88 & 89"	04/01/2008	GRASSDALE & CECIL PLAINS		
38504	PWLs - "Tipton #145 & #147, 148, 149"	02/03/2009	CECIL PLAINS		
38500	PWLs - "Tipton #95T, #96T, #98T, #99T, #100T & #102T"	02/03/2009	GRASSDALE		
38501	PWLs - "Tipton #114, 115, 116, 117, 118, 119"	02/03/2009	SPRINGVALE		
38502	PWLs "Tipton #130, #134, 135, 136"	02/03/2009	GRASSDALE- CECIL PLAINS		
38503	PWLs - "Tipton #137, 138, 139, 140, 141, 142"	02/03/2009	GRASSDALE		
38497	PWLs - " Tipton #25 & #28T"	02/03/2009	CECIL PLAINS		
38499	PWLs - "Tipton #60T, #61T, #68T & #69T"	02/03/2009	GRASSDALE		
38498	PWL - "Tipton #37T, 38T, 39T & #44T, 45T, 46T"	02/03/2009	GRASSDALE		
38506	PWLs - " Tipton #131, #132, #132A, #133 & #144"	12/03/2009	CECIL PLAINS		
38507	PWL "Tipton #129"	12/03/2009	GRASSDALE		
38736	PWL - "Tipton #146"	09/03/2010	CECIL PLAINS		
38743	PWL - "Tipton #143V1 & #143V(2) and #143L"	09/03/2010	CECIL PLAINS		
38746	PWL - "Tipton #68A"	09/03/2010	GRASSDALE		
39175	PWL - "Tipton #156"	07/04/2011	SPRINGVALE		
43667	PWL - TIPTON 193 & 194	05/11/2013	GRASSDALE		
43664	PWL - TIPTON 195, 196, 196A, 197	05/11/2013	NANDI		
44007	PWL - TIPTON 157, 158 & 159A	10/12/2014	GRASSDALE		
44701	PWL - TIPTON 211, 213, 214, 216	20/10/2016	GRASSDALE		

Relinquishment details

No data available

Sub-blocks retained

No data available

Term history

Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
2004 - 2034		29/01/2003	09/12/2004	09/12/2004	08/12/2034	30 years	Petroleum Act 1923

Native title

Outcome	Process
{Unknown outcome}	Predominantly Exclusive Land

Purpose and minerals

Purpose
PETROLEUM
Minerals
Coal Seam Gas

Related permits

Pre-requisite permits:	ATP 683P
------------------------	----------

Financial

Rent details

Area units:	255
Rate/unit area:	\$145.40

Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Later Development Plan Due		Requested	12/06/2014	08/12/2015		LDP DUE 8/12/2015.
Later Development Plan		Closed	07/10/2010	08/12/2010	19/11/2010	LDP DUE ON 8/12/2010. LDP LODGED ON 07/10/2010 WITHIN REQUIRED TIMEFRAME, FOR A FIVE (5) YEAR PERIOD COMMENCING 09/12/2010. CHECKLIST COMPLETED. FORWARDED TO TAS FOR ASSESSMENT ON 13/10/2010. LDP APPROVED 19/11/10.
Change of holder name	1019581	Closed	05/10/2010	05/10/2010	05/10/2010	Changed name from SHELL CSG (AUSTRALIA) PTY LTD to ARROW CSG (AUSTRALIA) PTY LTD
Change of holder name	1016426	Closed	09/09/2009	09/09/2009	09/09/2009	Changed name from BEACH PETROLEUM(SURAT) PTY LTD to ARROW (TIPTON TWO) PTY LTD
Agreement		Closed	12/07/2007	31/12/2008	12/07/2007	PRIORITY DEED FOR PL 198 AND ATP 683 - JOINT OPERATING AGREEMENT - TIPTON WEST JOINT VENTURE - BETWEEN BEACH PETROLEUM(SURAT) PTY LTD, ARROW (TIPTON) PTY LTD, COMMONWEALTH BANK OF AUSTRALIA AND CBA CORPORATE SERVICES (NSW) PTY LTD.
Later Development Plan		Closed	18/12/2005	25/04/2007	03/10/2007	REQUEST FOR FEE OF \$4400 SENT TO HOLDER - 28/02/06. LDP LODGED IN QDEX ON 18-DEC-2005. FEE OF \$440 PAID BY EFT, LATE PENALTY NOT REQUIRED. ASSESSED BY TAS, READY FOR APPROVAL. APPROVED - 3/10/2007.

CURRENT TITLE SEARCH

Appendix B

DEPT OF NATURAL RESOURCES AND MINES, QUEENSLAND

Request No: 21595754

Search Date: 13/08/2015 13:29

Title Reference: 50670064

Date Created: 21/06/2007

Previous Title: 14028166

14028167

REGISTERED OWNER

Dealing No: 710705537 18/06/2007

ARROW (TIPTON) PTY LTD A.C.N. 114 927 507

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 111930

County of DERBY

Parish of WEALE

Local Government: WESTERN DOWNS

For exclusions / reservations for public purposes refer to
Plan RP 111930

EASEMENTS, ENCUMBRANCES AND INTERESTS

1. Rights and interests reserved to the Crown by
Deed of Grant No. 10319189 (POR 12)

ADMINISTRATIVE ADVICES - NIL

UNREGISTERED DEALINGS - NIL

CERTIFICATE OF TITLE ISSUED - Yes 09/07/2007 710773395 Certificate No. 1

** End of Current Title Search **

COPYRIGHT THE STATE OF QUEENSLAND (DEPT OF NATURAL RESOURCES AND MINES) [2015]
Requested By: D APPLICATIONS CITEC CONFIRM

M.F.4225

This plan MUST NOT BE FOLDED but may be rolled.

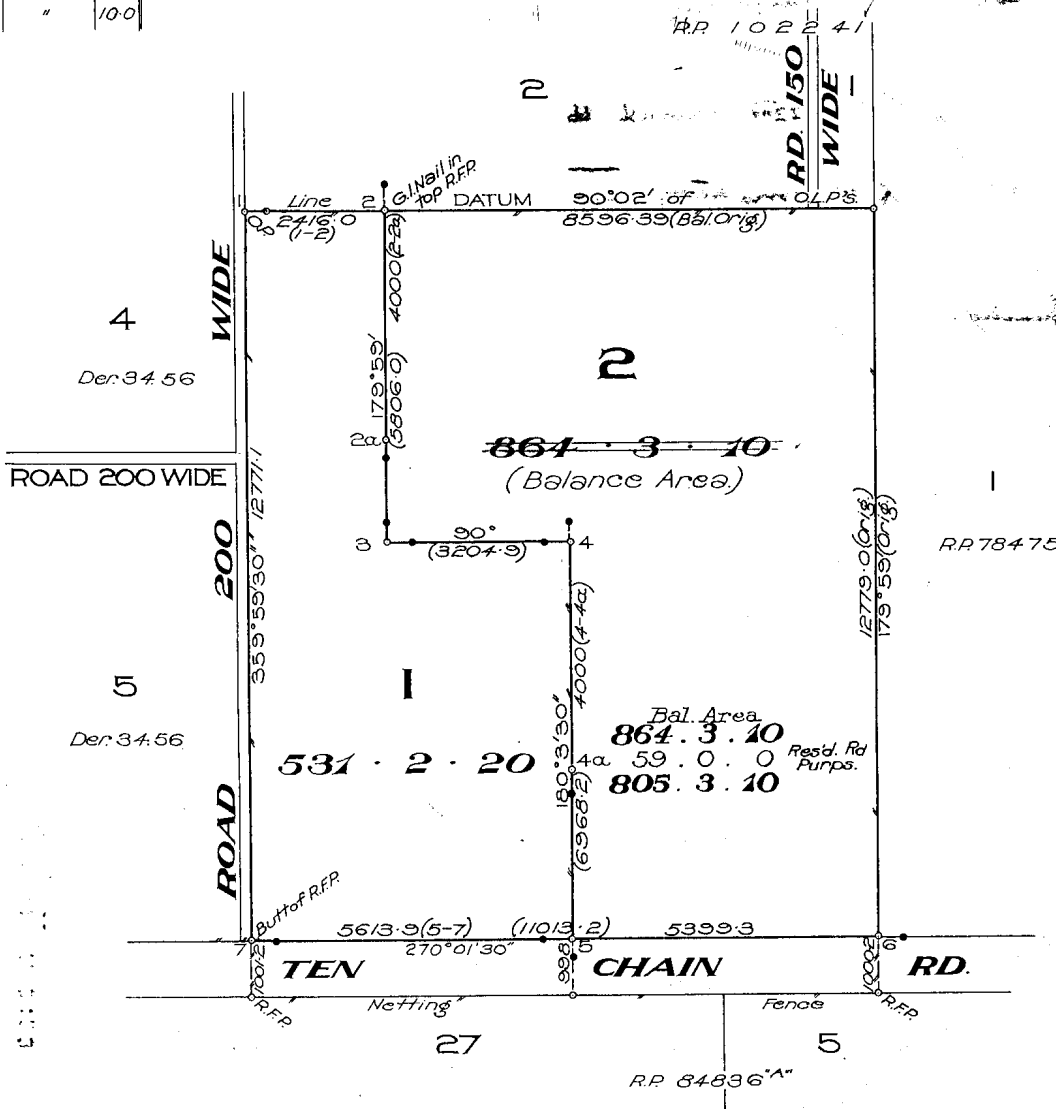
Iron Pins etc.

Stn	Brg	Dist
1	90°02'	200
2	359°59'	5.0
2a	179°59'	"
3	359°59'	"
"	90°	"
4	270°	"
"	0°3'30"	"
4a	180°3'30"	"
5	270°1'30"	"
"	180°0'30"	"
6	90°1'30"	"
7	"	100

Branded Peg Plcd at Stn.
Nos. 2a, 3, 4, 4a, 5, 6.

Reference to Corners

Cor	Brg	From	Dist	Mks
6	154°40'	Stn 2	41.0	"



Information shown (Orig) hereon
Compiled from R.P.102241 in The
Titles Office Brisbane

Auth. Surveyor

The area 59 acres reserved for road purposes
in Subdivision 3 of Portion 12, Parish of Weale,
may be allocated to Lot 2 as shown hereon.

Acting Surveyor General
19th December, 1966

Lots 1 & 2 Orig. Portion 12
Cancelling Sub 3 on R.P.102241 Orig. Grant 356.79
Town of WEALE
Parish of WEALE
Surveyed by K.N. Toms 28/7/1966
CROWN COPYRIGHT RESERVED
REGISTRAR OF TITLES, QUEENSLAND
REGISTERED PLAN 111930

This plan **MUST NOT BE FOLDED** but may be rolled.

Kenneth Norman Toms of Brisbane
 Authorised Surveyor, do hereby solemnly and sincerely declare that I have faithfully and truly surveyed, measured and marked on the ground the parcel of land herein referred to, and that the measurements and boundaries given in this plan are correct, and do not to the best of my belief in any way interfere with the rights or property of any persons, owners or occupiers of the land adjoining the above land, and described in the said plan; and I make this solemn declaration conscientiously believing the same to be true, and by virtue of the provisions of the "Oaths Acts, 1867-1960"

[Signature]
Authorised Surveyor

Made and Signed at Brisbane this 28th day of July,
1966 before me.

Signature of Registrar of Titles or of a Magistrate

The Council of the Shire of Kiambo certifies that all the requirements of this Council, the Local Government Acts of 1936 to 1965 and all By-Laws have been complied with and approves this Plan of Subdivision subject to _____

Dated this 22nd day of August 1966

Ch. Buring thought Chairman
& estimation or Mayor
Town or
Shire Clerk

As Proprietor of this land, I agree to this Plan of subdivision, and dedicate the new roads shown hereon to public use.

Signature of Proprietor *W. G. Henning. J. E. H. sum of*

- FOR SURVEYOR'S USE ONLY -

SURVEY OF Lots 1 & 2

County of Derby Parish of WEALE

Town of.....To the Depth of.

Cancelling.....Sub. 3. on R.P. 102241.....

Orig. Grant.....35670.....Orig. Portion.....12

- FOR OFFICE USE ONLY -

Previous Title: CT 33697 ~ 224/5 102241 "B"

Calcs Rm

3697 - 224 - 5

**For Additional Plan &
Document Notings
Refer to CISP**

in view to ~~purveyors~~ ^{sub} FILED ^{of}

The plan should be submitted to the ~~purveyors~~ General for allocation of the area reserved for road purposes.

(Re) Sub.	Vol.	Fol.
1	3006	107-105
2	4028	168-7.

Particulars entered in Register Book
Vol. 3697 Folio 22 + 25

the 5 day of Jan 1957 at 1:40 PM

R. M. Miller
REGISTRAR OF TITLES
QUEENSLAND

CT 3697/224 & 225
Dup mty D 14200
loaded by WSW.
9-96

FN 888

100 photos 1/16/57 ²⁴⁶⁴ 99813 #47 W
\$15.00 204866 204867

29-86
K.O.

1966 AUG 29 PM 3:23

REC'D. OF TITLES
RECEIVED

~~Lodged by:~~

E. J. B. ROBERTSON & CO
SOLICITORS
BRISBANE

REGISTERED PLAN 111930 *Kud*





Site Plan - Longswamp Gathering



Scale: 1:500 @ A3
Coordinate System: GDA 1994 MGA Zone 56

Source:
Arrow Energy Pty Ltd
Geosciences Australia
Department of Natural Resources and Mines (DNRM)

Based on or contains data provided by the State of Queensland (Department of Natural Resources and Mines (DNRM) 2016. In consideration of the State permitting use of this data you acknowledge and agree that the State gives no warranty in relation to the data (including accuracy, reliability, completeness, currency or suitability) and accepts no liability (including without limitation, liability in negligence) for any loss, damage or costs (including consequential damage) relating to any use of the data. Data must not be used for direct marketing or be used in breach of the privacy laws

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The dimensions, areas, number of lots, size & location of corridor information are approximate only and may vary.

Disclaimer: While all reasonable care has been taken to ensure the information contained on this map is up to date and accurate, no warranty is given that the information contained on this map is free from error or omission. Any reliance placed on such information shall be at the sole risk of the user. Please verify the accuracy of all information prior to using it.

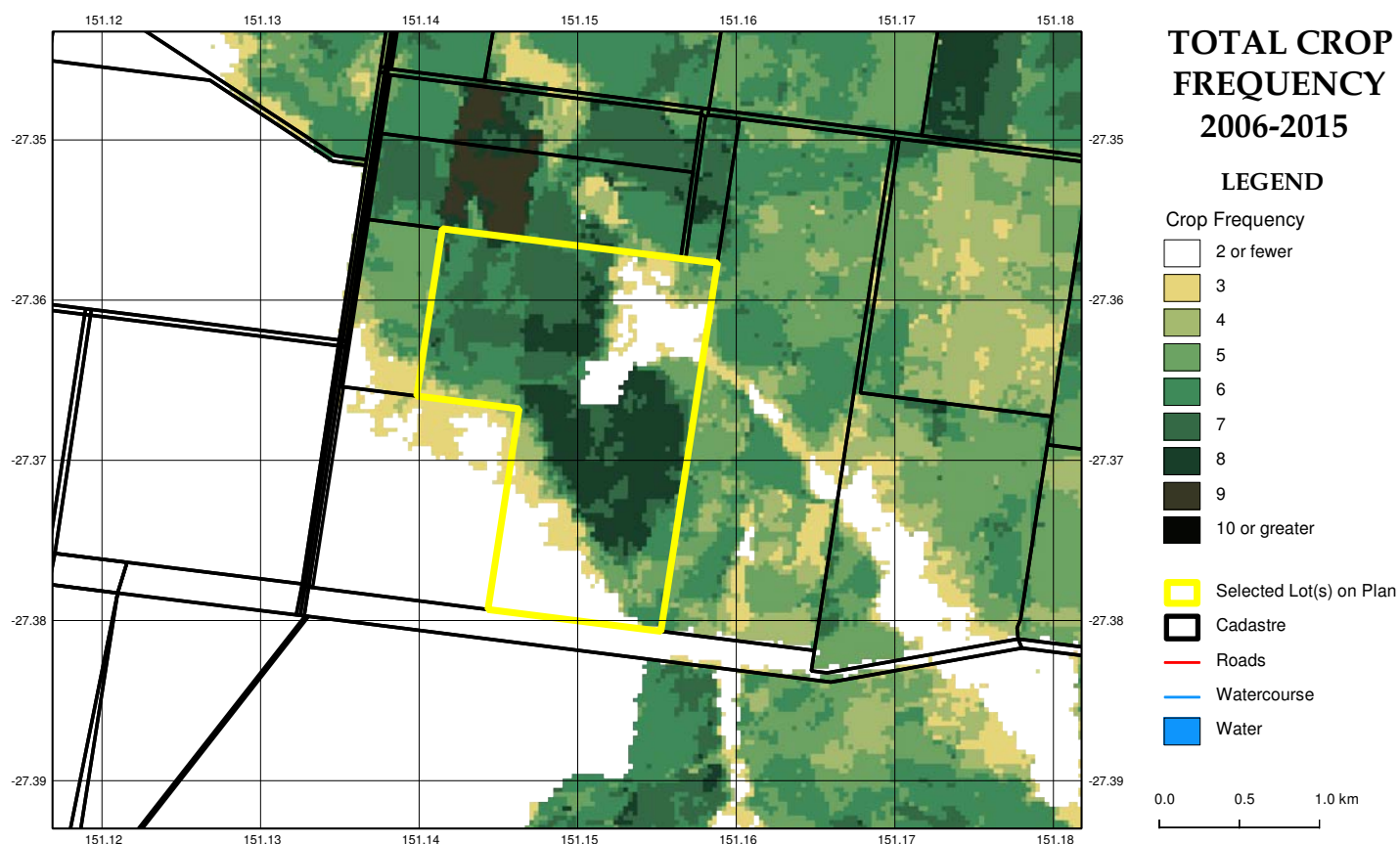
Note: The information shown on this map is a copyright of Arrow Energy Pty Ltd and, where applicable, its affiliates and co-venturers.



Introduction

This report presents crop frequency information for your chosen area, for the time period selected. The report is for a minimum ten year period between 1988 and 2013. The report includes crop frequency mapping which is based on time series analysis of Landsat satellite imagery over the summer and winter growing seasons. The approach is based on detection of annual cycles of greenness, therefore some perennial crops may not be represented. Snapshots of composite Landsat imagery for February and September for each year are also provided. For further information, refer to the FORAGE User Guide (http://www.longpaddock.qld.gov.au/forage/forage_user_guide.pdf).

Annual crop frequency map for 2006 - 2015



How to interpret the information

Crop frequency mapping: Coloured areas on the map indicate locations where active crops have been detected three or more times in the summer and winter growing seasons, for a minimum ten year period. The map on this page shows 'Total Frequency' and is a count of number of years in which an active crop was detected. The two maps on the following page show the summer and winter crop frequency. These maps show a count of the number of times an active crop was detected in each of those growing seasons. The detection of active crops is based on time-series analysis of Landsat satellite imagery. Due to limitations of the automated method used to detect active cropping, you should also view the Landsat satellite imagery snapshots to confirm the presence or absence of cropping.

Landsat satellite imagery: The summer (February) and winter (September) Landsat imagery snapshots on the following pages help confirm the presence of an active crop. Each snapshot is designed to optimise the identification of winter and summer cropping and is generated from a number of images acquired within the growing season. The cropped areas will generally appear bright green in the imagery compared with the surrounding landscape. Even if the crop frequency mapping does not indicate cropping in an area, it is important to check each Landsat image to confirm that cropping has not been undertaken. Sometimes it will not be possible to clearly identify cropped areas in the imagery. For example, in some wetter seasons, much of the imagery can appear very green and cropping may be difficult to identify. Where this is the case, it is recommended to undertake further investigation using other information sources.

Disclaimer

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FORAGE REPORT: CROP FREQUENCY

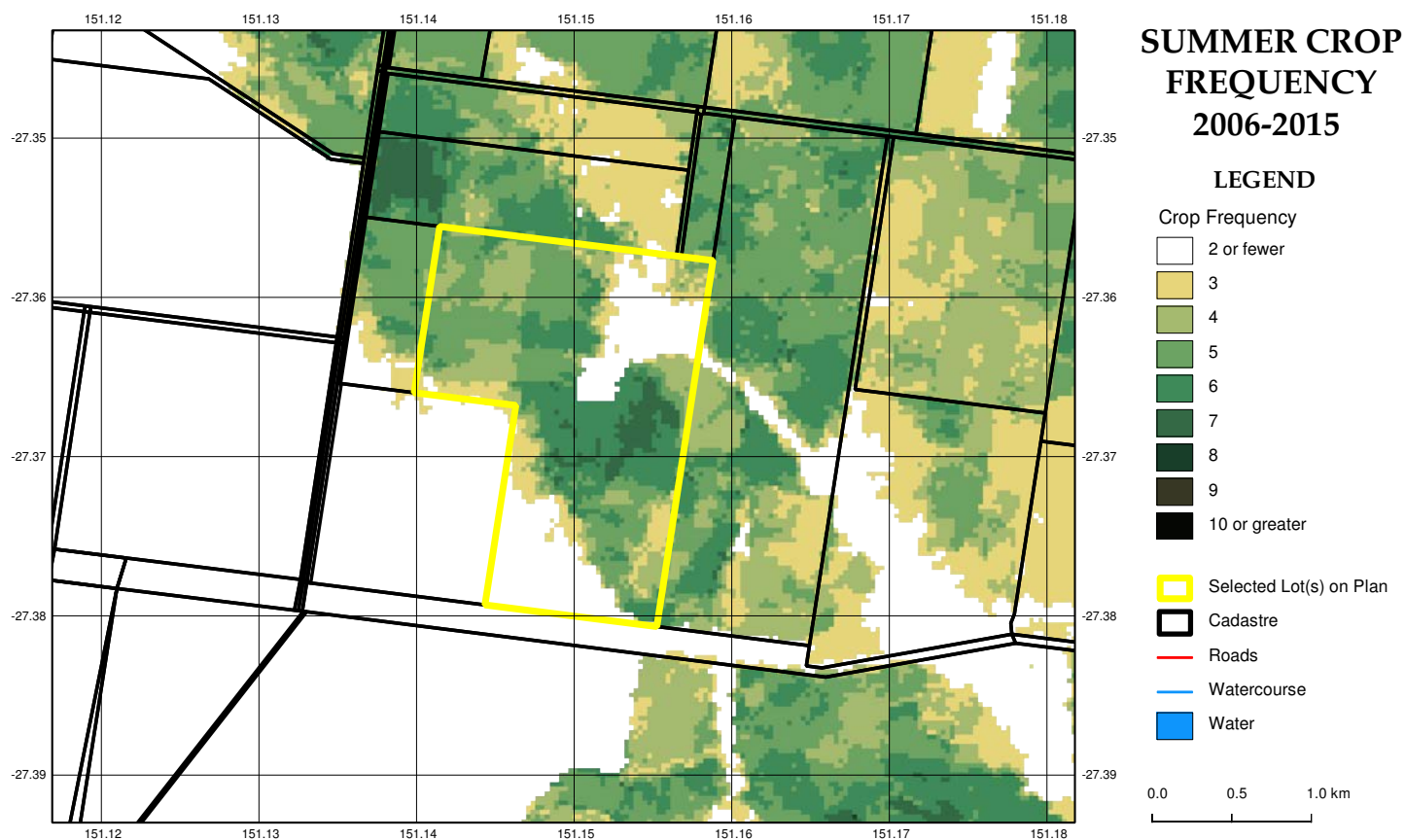
<http://www.longpaddock.qld.gov.au/forage>

November 16, 2016

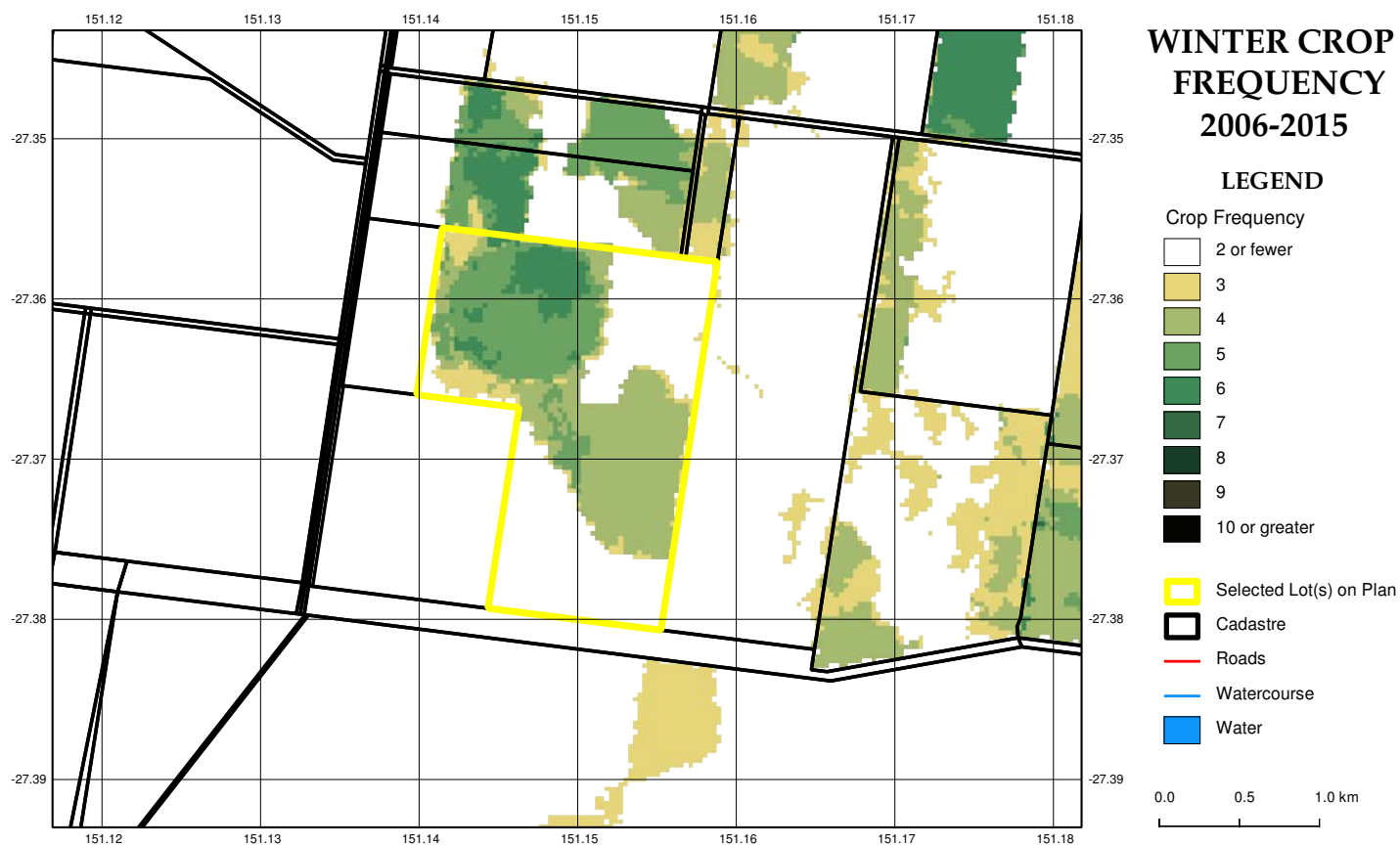
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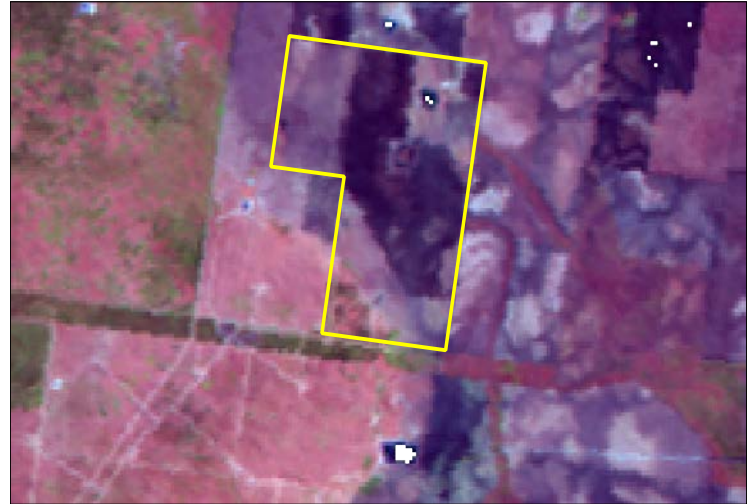
Summer (February) crop frequency map for 2006 - 2015



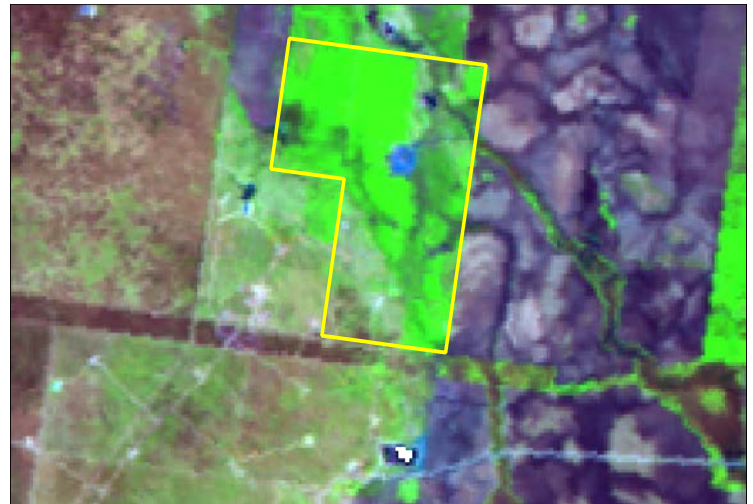
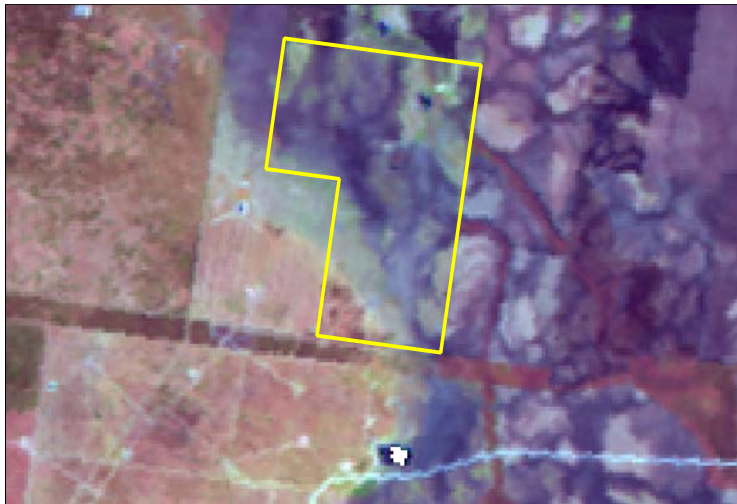
Winter (September) crop frequency map for 2006 - 2015



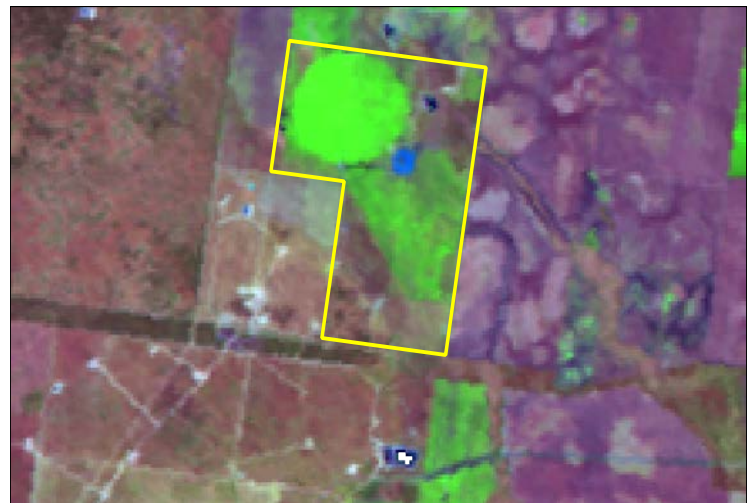
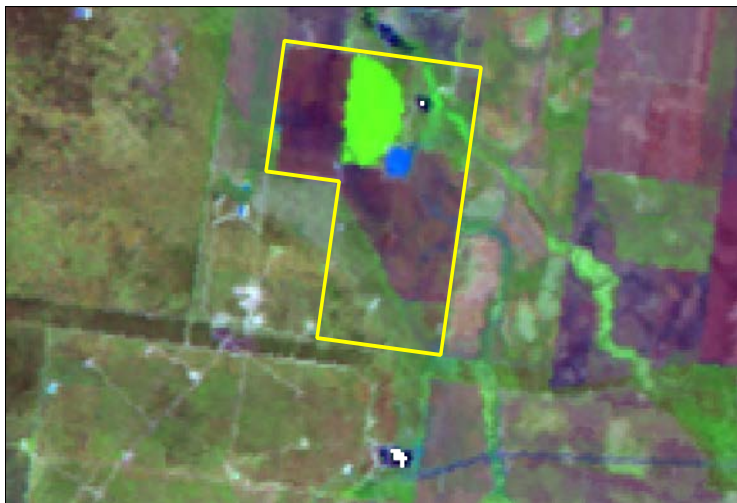
February (left) and September (right) images for 2006



February (left) and September (right) images for 2007



February (left) and September (right) images for 2008



FORAGE REPORT: CROP FREQUENCY

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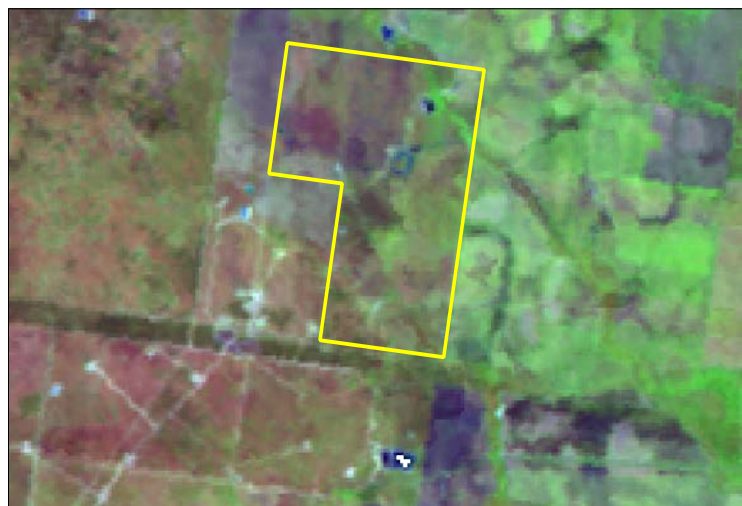
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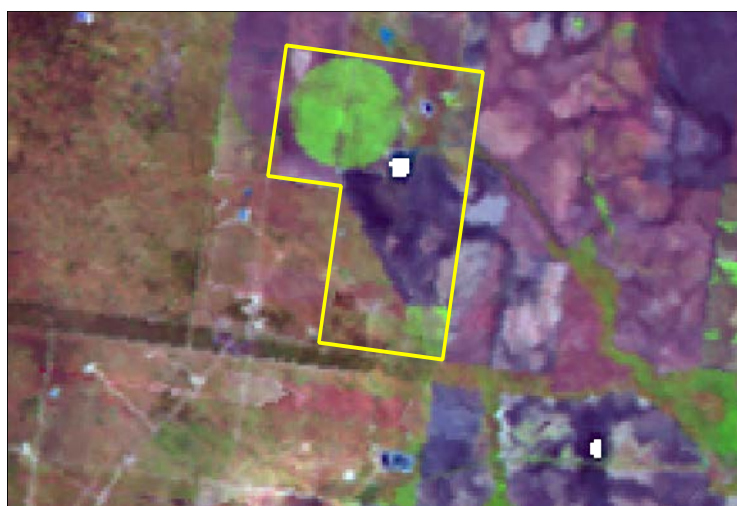


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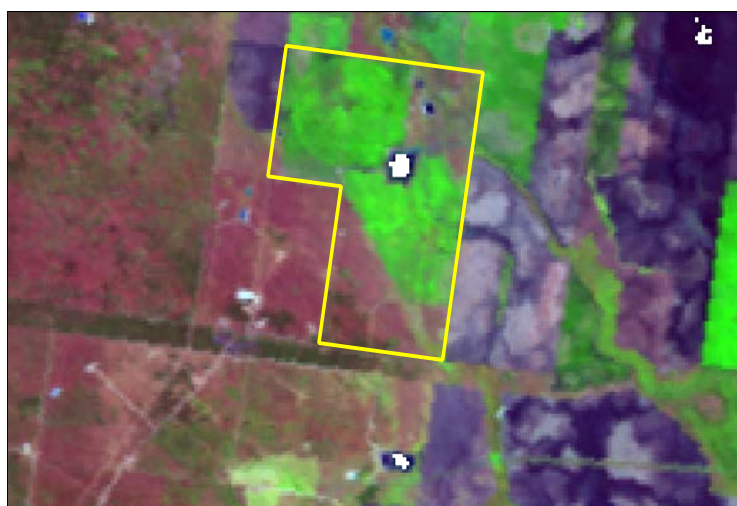
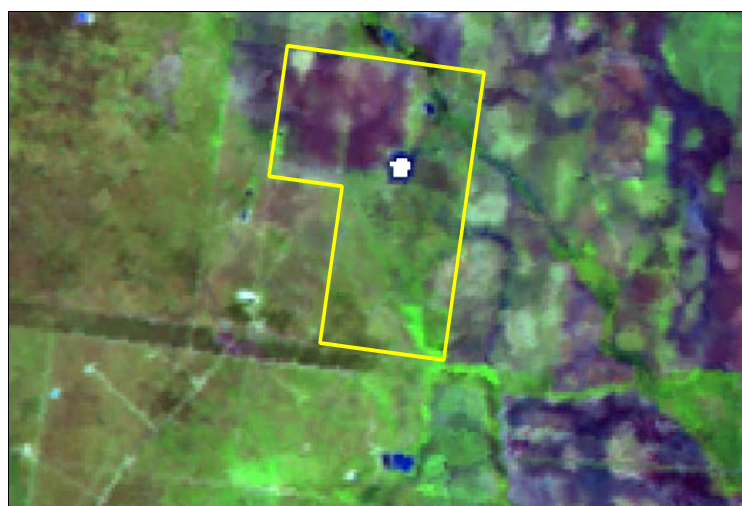
February (left) and September (right) images for 2009



February (left) and September (right) images for 2010



February (left) and September (right) images for 2011



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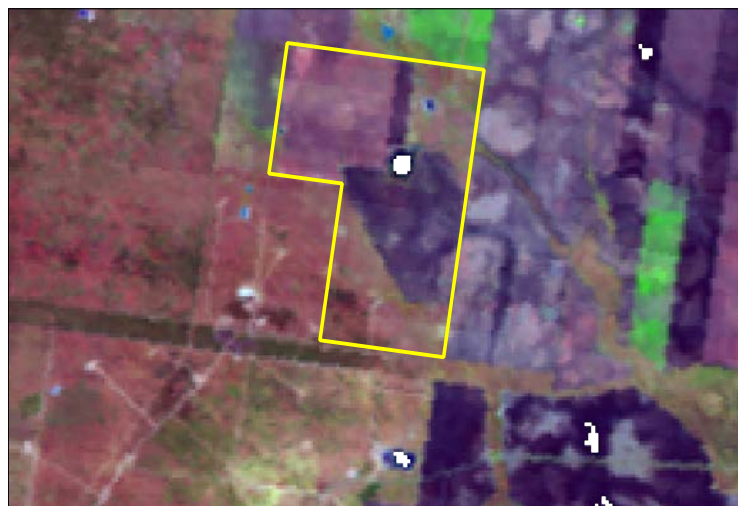
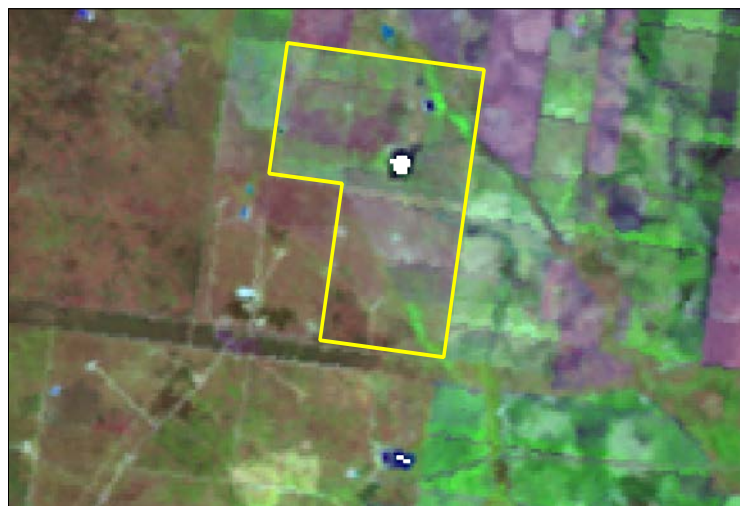
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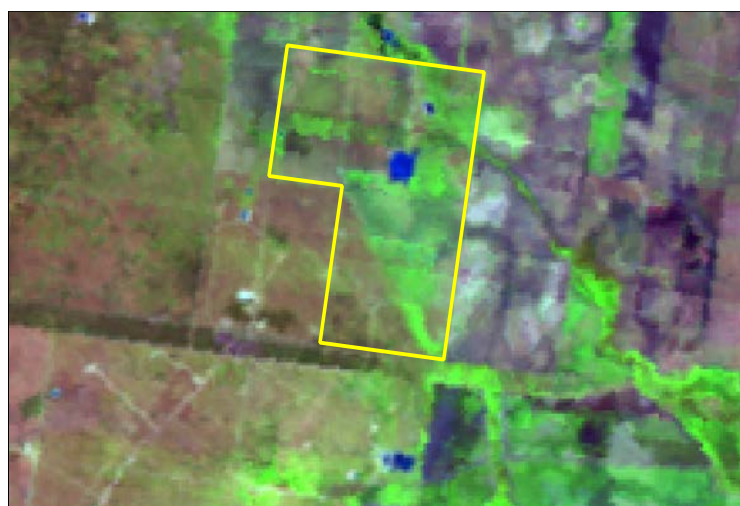


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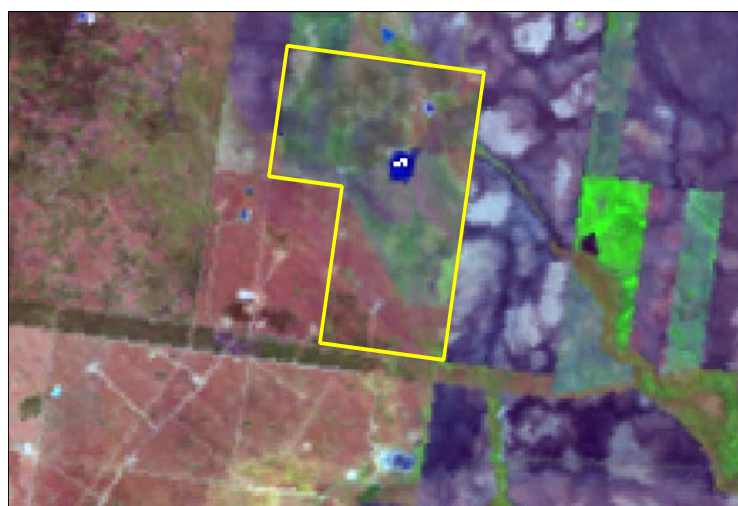
February (left) and September (right) images for 2012



February (left) and September (right) images for 2013



February (left) and September (right) images for 2014



FORAGE REPORT: CROP FREQUENCY

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November 16, 2016

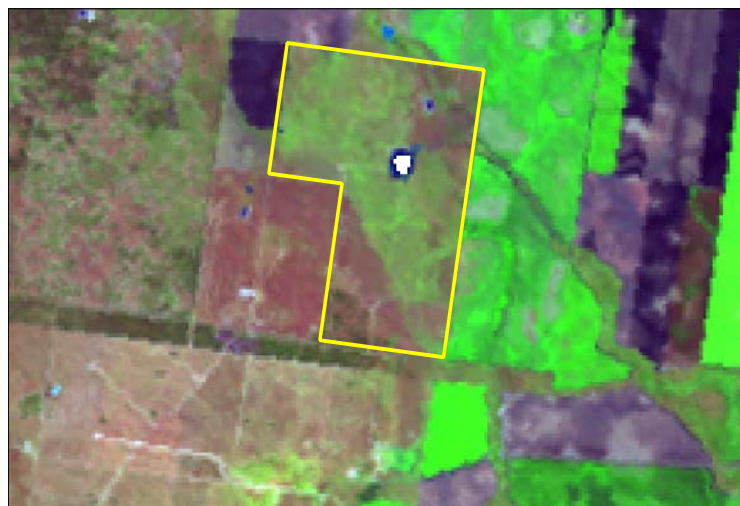
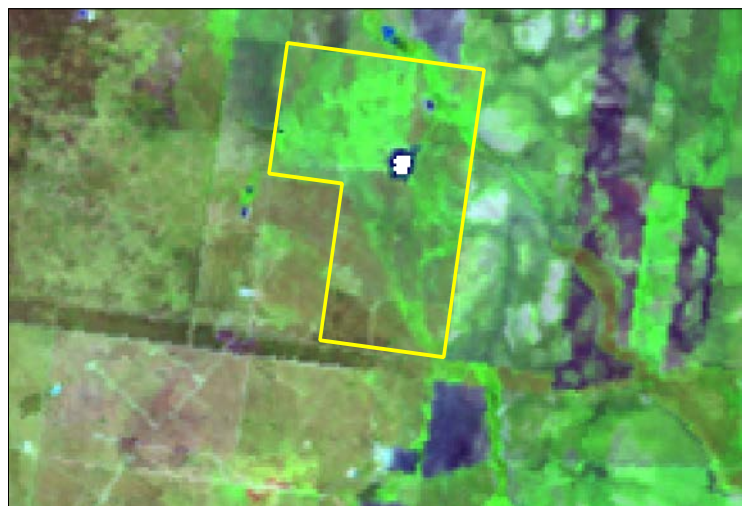
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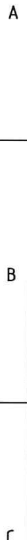
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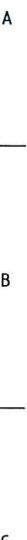
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February (left) and September (right) images for 2015





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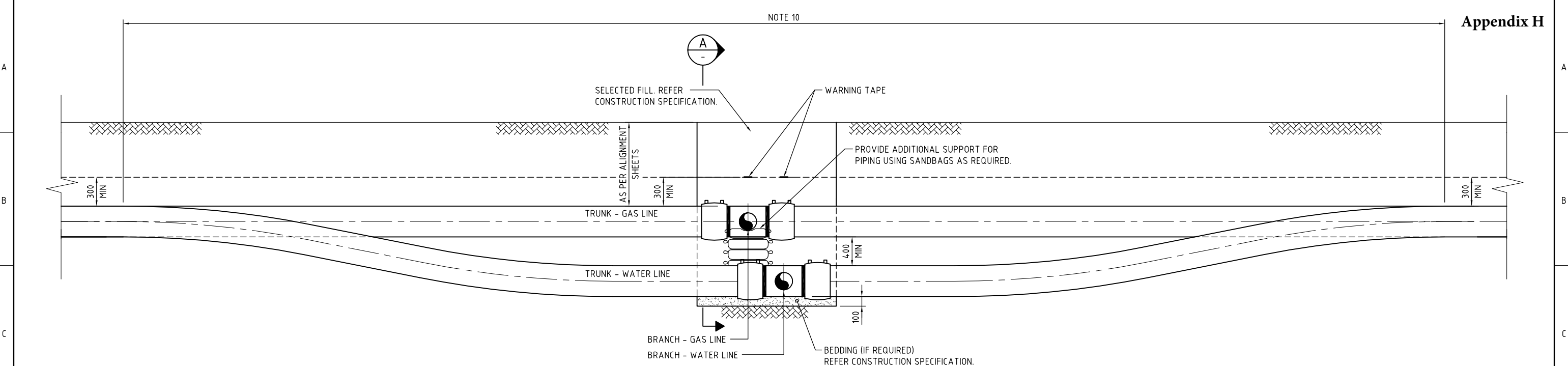
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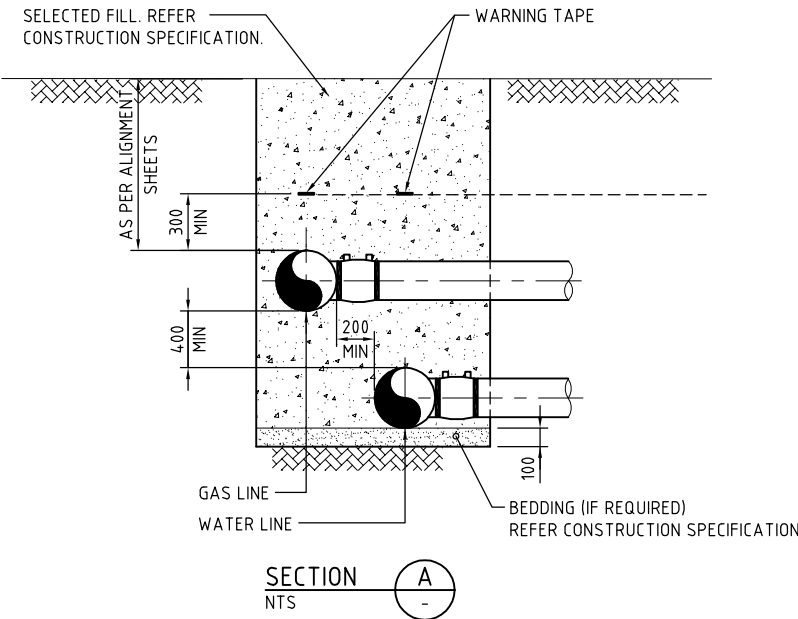
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TYPICAL SECTION
TYPICAL FOR ALL PIPE SIZES

NOTES

1. IN LOCATIONS WHERE MATERIALS ENCOUNTERED AT THE BOTTOM OF THE TRENCH HAVE THE POTENTIAL TO DAMAGE THE PIPE DURING INSTALLATION, THE CONTRACTOR SHALL PLACE EXCAVATED MATERIAL WHERE NECESSARY ALONG THE TRENCH BOTTOM TO A MINIMUM DEPTH OF 100mm OR AS APPROVED BY THE PRINCIPAL.
2. MINIMUM DEPTH OF COVER SHALL BE 750mm IN ROCK UNLESS OTHERWISE SPECIFIED OR DIRECTED BY THE PRINCIPAL.
3. ALL BACKFILL MUST ADHERE TO THE PIPELINE CONSTRUCTION SPECIFICATION.
4. TRENCH BEDDING, PADDING AND BACKFILL SHALL BE IN ACCORDANCE WITH THE RELEVANT SECTIONS OF THE PIPELINE CONSTRUCTION SPECIFICATION.
5. BACKFILL SURFACE SHALL BE COMPACTED IN ACCORDANCE WITH THE SPECIFICATION AND GRADE TO MATCH THE ADJOINING NATURAL SURFACE.
6. ALL CLEARANCES ARE NOMINAL UNLESS NOTED OTHERWISE. PIPE WILL NORMALLY SNAKE ALONG TRENCH WALL.
7. SEPARATE THE PIPES VERTICALLY OVER A DISTANCE SO AS NOT TO INTRODUCE ANY SIGNIFICANT LOCAL HIGH OR LOW POINTS. MINIMUM BENDING RADIUS TO BE GREATER THAN 20 TIMES THE OUTSIDE DIAMETER OF THE PIPE.
8. EXISTING PIPELINES TO BE IDENTIFIED AND LOCATED ON SITE.
9. LOCATION OF NEW PIPELINES TO BE DECIDED BY SITE SURVEY RELATIVE TO EXISTING PIPELINES AND EXISTING CONSTRUCTIONS AND OBSTACLES.
10. MINIMUM DISTANCE SHALL BE AS PER PROJECT CONSTRUCTION SPECIFICATION TO COVER MINIMUM BEND RADIUS.



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