Appendices







Appendix 1: Existing Approvals - Extracts



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Permit ID:	PL 252
Status:	Granted
Lodged date:	19/02/2007
Grant date:	20/09/2008
Commencement date:	20/09/2008
Expiry date:	19/09/2038
Plan/program expiry date:	30/06/2025
Current term:	30 years
Work program type:	
Conditions:	
Locality:	SOUTH-WEST OF DALBY WITHIN THE WALLOON COAL MEASURES
Remarks:	
Act permit granted under:	Petroleum and Gas (Production and Safety) Act 2004
Act now administered under:	Petroleum and Gas (Production and Safety) Act 2004

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- Holders

Authorised holder representative (AHR)

FERGUSON, Suzanne

C/- Tenement Manager GPO Box 5262 Brisbane QLD 4001

Holders

	Holder name	Share %	Status	Held from	Held to	Authorised holder
*	ARROW ENERGY PTY LTD GPO Box 562 Brisbane QLD 4001	70.000000000000	Current	06/01/2011		Yes
*	ARROW CSG (AUSTRALIA) PTY LTD C/- Tenement Manager GPO Box 5262 Brisbane QLD 4001	30.000000000000	Current	05/10/2010		No
	ARROW ENERGY LTD	70.000000000000	Former	21/12/2009	06/01/2011	
	SHELL CSG (AUSTRALIA) PTY LTD	30.00000000000	Former	21/12/2009	05/10/2010	
	ARROW ENERGY LTD	100.000000000000	Former	08/07/2008	21/12/2009	
	ARROW ENERGY NL	100.000000000000	Former	19/02/2007	08/07/2008	
Те	nancy type: Tenancy in Common					

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Location: Mew Map

Mining district: Dalby

Local authority: Western Downs Regional Council

Area: 25 Sub-blocks

Exclusions:

Marked out date:

Sub-blocks

BIM	Block	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	0	Р	Q	R	s	Т	U	٧	W	X	Υ	Z
Brisbane	2749	Α	В	С	D	Е	F	G	Н	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Υ	Z

Background land

No data available

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP38492	PWLs - "Stratheden #10, 11, 12, 13, 14"	02/03/2009	DUCKLO		
MP38493	PWL - STRATHEDEN 16, 18, 19	02/03/2009	DUCKLO		
MP38744	PWL - "Stratheden #15"	09/03/2010	DUCKLO		
MP38734	PWL - "Stratheden #17, 20, 22 & 24, 25, 26, 27"	09/03/2010	DUCKLO		
MP38853	PWL - "Stratheden #5"	18/08/2010	DUCKLO		
MP39583	PWL - Stratheden #60 & 61	12/11/2012	RANGES BRIDGE		
MP39593	PWL - Stratheden #40, 41, 42, 43, 44, 45, 46	14/12/2012	RANGES BRIDGE		
MP43663	PWL - STRATHEDEN 62, 63, 64, 65, 66, 67, 68, 69	14/10/2013	DUCKLO		
MP45812	PWL OF STRATHEDEN 111, STRATHEDEN 112, STRATHEDEN 113, STRATHEDEN 114, STRATHEDEN 115 AND STRATHEDEN 116	23/08/2018	RANGES BRIDGE		

Relinquishment details

No data available

Sub-blocks retained

No data available

- Term	hist	o r y					
Term	Date notice issued	Date lodged	Date approved	Date commenced	Date term ends	Term	Act granted under
2008 - 2038		19/02/2007	20/09/2008	20/09/2008	19/09/2038	30 years	Petroleum and Gas (Production and Safety) Act 2004

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Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Coordination arrangement	347503	Requested	28/04/2021			
Coordination arrangement	347490	Requested	28/04/2021			
Add excluded land	213520	Approved	19/07/2017		23/08/2017	Approval given to add excluded land namely land that may be subject to native title.
Later Development Plan Due		Requested	24/06/2014	19/09/2018		LDP DUE 19/09/2018.
Later Development Plan		Closed	06/06/2013	30/06/2014	18/06/2014	LDP DUE 19-SEP-2013. LDP RECEIVED 06/06/13, WITHIN TIMEFRAME, FOR PERIOD OF 5 YRS FROM 20/09/2013 TO 19/09/2018. CHECKLIST COMPLETED. TAS REQUIRED. LDP FORWARDED TO DELEGATE FOR APPROVAL 20/05/14.LDP APPROVED BY REGIONAL DIRECTOR ON 18/06/14 FOR THE PERIOD TILL 19/09/2018.
Change of holder name	1020891	Closed	06/01/2011	06/01/2011	06/01/2011	Changed name from ARROW ENERGY LTD to ARROW ENERGY PTY LTD
Coordination arrangement	131810	Approved	11/10/2010		20/03/2019	
Change of holder name	1019581	Closed	05/10/2010	05/10/2010	05/10/2010	Changed name from SHELL CSG (AUSTRALIA) PTYLTD to ARROW CSG (AUSTRALIA) PTYLTD
Change of holder name	1012587	Closed	08/07/2008	08/07/2008	08/07/2008	Changed name from ARROW ENERGY NL to ARROW ENERGY LTD
Later Development Plan		Closed	22/02/2007	19/04/2007	20/09/2008	INITIAL DEVELOPMENT PLAN LODGED WITH APPLICATION FOR A TERM OF 5 YEARS TO COMMENCE 20 SEP 2008 TO EXPIRE 19 SEP 2013

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Permit ID:	PL 260
Status:	Granted
Lodged date:	08/01/2008
Grant date:	16/03/2011
Commencement date:	01/04/2011
Expiry date:	31/03/2041
Plan/program expiry date:	30/06/2025
Current term:	30 years
Work program type:	
Conditions:	Entry into relevant arrangement (a) The holders of PL 260 must enter into contract(s), coordination arrangement(s) or other arrangement(s) (relevant arrangement(s)) to supply petroleum produced from the area of PL 260, where the relevant arrangement(s) provide for: i. the supply of petroleum produced from the area of PL 260 to occur by no later than 31 December 2018; and ii. the volume of petroleum produced from the area of PL 260 to equal or exceed 300TJ by 31 December 2019. (b) The holders of PL 260 must provide the following to the department administered by the Minister by no later than 30 June 2017: i. evidence of the relevant arrangement(s) to supply petroleum produced from the area of PL 260 which meets the requirements of clause (a); and ii. a written declaration that the petroleum produced from the area of PL 260 will meet all or some of the petroleum required to be supplied under the relevant arrangement. (c) The Minister may determine that s/he is not satisfied that the holders of PL 260 have entered into relevant arrangement(s) if the Minister reasonably believes: i. a relevant arrangement relating to PL 260 is not an arm's length commercial transaction; or ii. supply under the relevant arrangement is unlikely to be carried out.
Locality:	SOUTH OF DALBY
Remarks:	Prerequsite tenure Id's ATP 683
Act permit granted under:	Petroleum and Gas (Production and Safety) Act 2004
Act now administered under:	Petroleum and Gas (Production and Safety) Act 2004

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- Holders

Authorised holder representative (AHR)

FERGUSON, Suzanne

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 C/- Tenement Manager GPO Box 5262 Brisbane QLD 4001	30.000000000000	Current	05/10/2010		No
*	ARROW (TIPTON TWO) PTY LTD GPO Box 5262 Brisbane QLD 4001	28.000000000000	Current	09/08/2010		No
*	ARROW (TIPTON) PTY. LTD. GPO Box 5262 Brisbane QLD 4001	42.000000000000	Current	02/04/2009		Yes
	SHELL CSG (AUSTRALIA) PTYLTD	30.000000000000	Former	09/08/2010	05/10/2010	
	ARROW (TIPTON TWO) PTY LTD	40.000000000000	Former	09/09/2009	09/08/2010	
	SHELL CSG (AUSTRALIA) PTYLTD	18.00000000000	Former	02/04/2009	09/08/2010	
	ARROW (TIPTON) PTY. LTD.	60.000000000000	Former	22/01/2008	02/04/2009	
	BEACH PETROLEUM(SURAT) PTYLTD	40.000000000000	Former	22/01/2008	09/09/2009	

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Location: Mew Map Mining district: Dalby Local authority: Western Downs Regional Council Area: 72 Sub-blocks Exclusions: Marked out date:

Sub-blocks

DINA	Dii.		_	_	_	_	_	_			1/				_		_	_	_	-		٠,,	14/	v	\ <u>'</u>	-
BIM	Block	Α	В	С	D	E	F	G	Н	J	K	L	M	N	0	Р	Q	R	S	Т	U	V	W	X	Υ	Z
Brisbane	2678	Α					F	G				L	М	N			Q	R	S	Т		٧	W	Χ	Υ	Z
Brisbane	2750	Α	В	С	D	Ε	F	G	Н	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Χ	Υ	Z
Brisbane	2751						F																			
Brisbane	2822	А	В	С	D	Ε	F	G	Н	J	K	L	М	N	0	Р	Q	R	s	Т	U	٧	W	Х	Υ	
Brisbane	2894	Α	В	С	D		F	G	Н																	

Background land

No data available

Survey plans

Plan No.	Description	Date received	Locality	Volume	Folio
MP43668	PWL - LONGSWAMP 7 & 8	05/11/2013	RANGES BRIDGE		
MP38962	PWL - LONGSWAMP 25, LONGSWAMP 26	18/01/2018	SPRINGVALE		
MP45800	PWL - LONGSWAMP 27	06/02/2018	Nandi		
MP45805	PWL OF LONGSWAMP 32, LONGSWAMP 33, LONGSWAMP 34, LONGSWAMP 35	20/04/2018	DUCKLO		
MP45806	PWL OF LONGSWAMP 28, LONGSWAMP 29, LONGSWAMP 30, LONGSWAMP 30R & LONGSWAMP 31	20/04/2018	NANDI & DUCKLO		

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
2011 - 2041		08/01/2008	16/03/2011	01/04/2011	31/03/2041	30 years	Petroleum and Gas (Production and Safety) Act 2004

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- Native title

 Outcome
 Process

 Land subject to Native Title is excluded from the permit area
 Predominantly Exclusive Land

→ Purpose and minerals

Purpose

Gas, OIL

Minerals

Coal Seam Gas

→ Related permits

Pre-requisite permits: ATP683 (CONSENT GIVEN) P&G ACT

→ Financial

Rent details

Area units: 21

Rate/unit area: \$159.30

- Activities

Activity name	Activity / Dealing No	Status	Date received	Expected completion	Date completed	Remarks
Add excluded land	213527	Approved	19/07/2017		23/08/2017	Approval given to add excluded land namely land that may be subject to native title.
Later Development Plan Due		Requested	12/06/2014	31/03/2016		LDP DUE 31/03/2016.
Change of holder name	1019581	Closed	05/10/2010	05/10/2010	05/10/2010	Changed name from SHELL CSG (AUSTRALIA) PTYLTD to ARROW CSG (AUSTRALIA) PTYLTD
Change of holder name	1016426	Closed	09/09/2009	09/09/2009	09/09/2009	Changed name from BEACH PETROLEUM (SURAT) PTYLTD to ARROW (TIPTON TWO) PTYLTD

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Permit Environmental Protection Act 1994

Environmental authority EPPG00972513

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPG00972513

Environmental authority takes effect on 19 August 2021

Environmental authority holder(s)

Names(s)	Registered address
ARROW ENERGY PTY LTD	Level 39 111 Eagle Street BRISBANE QLD 4001
AUSTRALIAN CBM PTY LTD	Level 39 111 Eagle Street BRISBANE CITY QLD 4000 Australia
ARROW (TIPTON) PTY. LTD.	Level 39 111 Eagle Street BRISBANE CITY QLD 4000 Australia
ARROW (DAANDINE) PTY. LTD.	Level 39 111 Eagle St BRISBANE CITY QLD 4000 Australia
ARROW CSG (AUSTRALIA) PTY LTD	Level 39 111 Eagle Street BRISBANE CITY QLD 4000 Australia
ARROW (TIPTON TWO) PTY LTD	Level 39 111 Eagle Street BRISBANE CITY QLD 4000 Australia
CLEANCO QUEENSLAND LIMITED	Comalco Place Level 32 12 Creek St BRISBANE CITY QLD 4000 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
Resource Activity, Ancillary 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no- release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	PL252

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	,
Resource Activity, Ancillary 14 - Electricity Generation, 1: Generating electricity by using gas at a rated capacity of 10MW electrical or more	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Ancillary 15 - Fuel burning, Using fuel burning equipment that is capable of burning at least 500kg of fuel in an hour	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Ancillary 56 - Regulated Waste Storage Receiving and storing regulated waste	PL230
Resource Activity, Ancillary 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no- release works, with a total daily peak design capacity of, (a-i) 21 to 100EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme.	PL198, PL230, PL260, PL238, PL258
Resource Activity, Ancillary 63 - Sewage Treatment, 1: Operating sewage treatment works, other than no- release works, with a total daily peak design capacity of, (b-i) more than 100 but not more than 1500EP if treated effluent is discharged from the works to an infiltration trench or through an irrigation scheme	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Ancillary 64 - Water treatment, 2: Desalinating, in a day, the following quantity of water, allowing the release of waste to waters other than seawater, (b) more than 5ML	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Schedule 3, 06: A petroleum activity carried out on a site containing a high hazard dam or a significant hazard dam	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Schedule 3, 07: A petroleum activity involving injection of a wastefluid into a natural underground reservoir or aquifer	PL238, PL258, PL252, PL194, PL198, PL230, PL260
Resource Activity, Schedule 3, 08: A petroleum or GHG storage activity, other than items 1 to 7, that includes an activity from Schedule 2 with an AES	PL238, PL258, PL252, PL194, PL198, PL230, PL260

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

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Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days);

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.gld.gov.au, using the search term 'duty to notify'.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Sustainable Planning Act 2009* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.

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Environmental Authority EPPG00972513

Clancy Mackaway
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Date issued: 19 August 2021

Enquiries:

Energy and Extractive Resources Department of Environment and Science

Phone: 3330 5715

Email: EnergyandExtractive@des.qld.gov.au



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Appendix 2: Title Searches







Title Reference:	16558189
Date Title Created:	10/01/1984
Previous Title:	14004244, 1400424

ESTATE AND LAND

Estate in Fee Simple

LOT 1 CROWN PLAN DY787

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703441498 08/07/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 703441498

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11805224 (POR 1V)

 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **





Title Reference:	18087248	Search Date:	16/09/2021 (
Date Title Created:	18/01/1991	Request No:	38572
Previous Title:	15138129, 15138130		

ESTATE AND LAND

Estate in Fee Simple

LOT 1 CROWN PLAN DY931

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703441530 08/07/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 703441530

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11881050 (POR 5V)

 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **



Current State Tenure Search

Queensland Titles Registry Pty Ltd ABN 23 648 568 101

Title Reference: 17695007

Search Date: 16/09/2021 07:47

Date State Tenure Created: 21/10/1995

Request No: 38572523

Creating Dealing:

DESCRIPTION OF LAND

Tenure Reference: RL 16/2451 Lease Type: NO TERM

LOT 1 CROWN PLAN RL2451

Local Government: WESTERN DOWNS

Area: 13.300000 Ha. (ABOUT)

Area Description:

The road separating subdivision 1 of portion 5V from subdivisions 3 and 4 of portion 263.

No Forestry Entitlement Area
Purpose for which granted:
NO PURPOSE DEFINED

REGISTERED LICENSEE

Dealing No: 703441530 08/07/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370

FOR WARAKIRRI AGRICULTURAL LAND TRUST II

TRUSTEE

COMMENCEMENT DATE

Commencement Date: 16/05/1955

CONDITIONS

NIL

ENDORSEMENTS

NIL

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Corrections have occurred - Refer to Historical Search

** End of Current State Tenure Search **

Information provided under section 34 Land Title Act (1994) or section 281 Land Act (1994)

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ESTATE AND LAND

Estate in Fee Simple

LOT 1 REGISTERED PLAN 154777

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703441470 08/07/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 703441470

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11355018 (POR 63) Deed of Grant No. 11901015 (POR 3V)

 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **





Title Reference:	50272040	Search Date:
Date Title Created:	30/06/1999	Request No:
revious Title:	14017190, 14017191	

ESTATE AND LAND

Estate in Fee Simple

LOT 2 CROWN PLAN DY787

Local Government: WESTERN DOWNS

LOT 2 REGISTERED PLAN 106958

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703783902 24/12/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 509 370 TRUSTEE

UNDER INSTRUMENT 703783902

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 13745006 (POR 2V) Deed of Grant No. 13745007 (POR 59)

MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005
 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority





Title Reference:	14584120	Search Date:	16/09/2021 07:49
Date Title Created:	10/05/1971	Request No:	38572535
Previous Title:	14058218, 140582	2	

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 85916

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 718742192 11/05/2018

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 718742192

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 12050012 (POR 13)

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL





Title Reference:	15689193	Search Date:	16/09/2021 07:47
Date Title Created:	16/09/1977	Request No:	38572528
Previous Title:	14057123, 140571	057125	

ESTATE AND LAND

Estate in Fee Simple

LOT 2 REGISTERED PLAN 99387

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 705330929 16/01/2002

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 705330929

EASEMENTS, ENCUMBRANCES AND INTERESTS

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 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **





ESTATE AND LAND

Estate in Fee Simple

LOT 2 CROWN PLAN DY787

Local Government: WESTERN DOWNS

LOT 2 REGISTERED PLAN 106958

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703783902 24/12/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 509 370 TRUSTEE

UNDER INSTRUMENT 703783902

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 13745006 (POR 2V) Deed of Grant No. 13745007 (POR 59)

 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority





Title Reference:	50634412
Date Title Created:	03/11/2006
Previous Title:	40052662

ESTATE AND LAND

Estate in Fee Simple

LOT 12 SURVEY PLAN 193328

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 718742192 11/05/2018

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 718742192

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11205098 (POR 12)

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL





Title Reference:	13047163
Date Title Created:	08/08/1957
Previous Title:	11192119

ESTATE AND LAND

Estate in Fee Simple

LOT 36 CROWN PLAN DY45

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 718384463 08/11/2017

WARRAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 718384463

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11192119 (POR 36)

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL





ESTATE AND LAND

Estate in Fee Simple

LOT 57 SURVEY PLAN 193329

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 718384463 08/11/2017

WARRAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 718384463

EASEMENTS, ENCUMBRANCES AND INTERESTS

 Rights and interests reserved to the Crown by Deed of Grant No. 11366020 (POR 17)

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL





Title Reference:	13883004
Date Title Created:	18/05/1966
Creating Dealing:	

ESTATE AND LAND

Estate in Fee Simple

LOT 60 CROWN PLAN DY802

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703441470 08/07/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 703441470

EASEMENTS, ENCUMBRANCES AND INTERESTS

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 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

** End of Current Title Search **





Title Reference:	16517101
Date Title Created:	08/09/1983
Previous Title:	11748129

ESTATE AND LAND

Estate in Fee Simple

LOT 70 CROWN PLAN DY138

Local Government: WESTERN DOWNS

REGISTERED OWNER

Dealing No: 703394503 15/06/1999

WARAKIRRI ASSET MANAGEMENT PTY LTD A.C.N. 057 529 370 TRUSTEE

UNDER INSTRUMENT 703394503

EASEMENTS, ENCUMBRANCES AND INTERESTS

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 MORTGAGE No 715264553 19/08/2013 at 15:36
 AUSTRALIA AND NEW ZEALAND BANKING GROUP LIMITED A.C.N. 005 357 522

ADMINISTRATIVE ADVICES

NIL

UNREGISTERED DEALINGS

NIL

Caution - Charges do not necessarily appear in order of priority

Appendix 3: Land Parcel and Property Details



Property 1: 57SP193329, 36DY45, 2RP85916 and 12SP193328

Property Details

- This property is designated as cropping (Class 3.3).
- This property is presently utilised for dryland and irrigated crops.
- Proposed infrastructure is to be located on parcels 57SP193329 and 36DY45. No infrastructure is proposed to be located on the parcels 12SP193328 and 2RP85916.
- There is one proposed well pad on this property, and it is located in a corner of the paddock on Lot 57SP193329.
- Approximately half of the gathering proposed for this property is located on the boundary of the paddock while the remaining gathering traverses the middle of the paddock across 57SP193329.
- The majority of access track proposed for this property is located on the western boundary of the paddock while a section of track traverses the middle of the paddock across 36DY45.
- Two deviated well trajectories enter 57SP193329 and one of those also enters 12SP193328 from a neighbouring property at a subterranean depth of at least 200 m.
- Surrounding land use is generally cropping.





Image of Lot 57SP193329



Image of Lot 36DY45



Image of Lot 36DY45

Field Layout Summary

- The locations of above ground infrastructure is indicative only at this stage and once an engineering review has been undertaken they will be re-located to more strategic locations to minimise impacts to farming activities.
- Arrow will utilise existing landholder access tracks to infrastructure and will upgrade existing tracks as necessary.
- The proposed gathering and access tracks traversing the boundaries are located to avoid and minimise impacts to farming activities as much as possible.
- Gathering is proposed to be located across the paddock on 57SP193329 to create a connection with wells located to the East of this property
- The access track proposed to be located across 36DY45 will be constructed to enable the use of the existing access point off Hoadley's Road. Using this access can help to avoid houses and small blocks

Infrastructure summary

- 1 x 2-well multi-well pad 1.15 ha (during construction) reducing to 175 m² (during operation)
- Pipeline Right of Way 9 ha (during construction)
- Access track 2.85 ha (operational footprint)
- 3 x high point vents 0.0108 ha (operational footprint)
- 1 x low point drain 0.0036 ha (operational footprint)
- 4 x valves 0.00008 ha (operational footprint)
- 2 x subterranean deviated well trajectories

CCA Map 308500 309000 309500 310000 311000 311500 312000 312500 DAANDINE NANDI ROAD Point ID Easting Northing AP 1 310815 6990080 309030 6991265 2 309129 6991253 309115 6991139 3 4 309016 6991151 6992500 2RP85916 WARAKIRRI ASSET MANAGEMENT PTY LTD 12SP193328 WARAKIRRI ASSET MANAGEMENT PTY LTD Longswamp 167 **PL252** 57SP193329 WARRAKIRRI ASSET MANAGEMENT PTY LTD **PL260** Access Point AP 1 **INSET 1** HOADLEYS ROAD 36DY45 WARRAKIRRI ASSET MANAGEMENT PTY LTD **INSET 2** PL252 **PL260** ☆ 309000 309500 310000 310500 311000 312000 312500 **Location Diagram** Tenement: PL252, PL260 Legend Arrow Well (Proposed) PL (Arrow) LotPlan: 57SP193329, 12SP193328, 36PDY45, Sensitive Receptor 2RP85916 Future Service Connection PL230 Isolation Valves Tie-in Well/s: Stratheden - SE162, SE163 Access Point \boxtimes ★ LPD (Proposed) Project Name: Duleen Kupunn Part 3 ★ HPV (Proposed) Owner: WARAKIRRI ASSET MANAGEMENT PTY LTD Proposed RoW – 30m wide PL260 Kupuni **AS TTE** Access Track Well Area Subject Property EWA 400 600 Property Boundary Strategic Cropping Area Coordinate System: GDA 1994 MGA Zone 56 Priority Agricultural Area Scale @ A4: 1:22,500 **Surat Basin** © Commonwealth of Australia (Geoscience Australia) 2020. This material is released under the Creative Commons Attribution 4.0 Australia Licence. http://creative.commons.org/licenses/byl4.0/au./ The dimensions, areas, number of lots, size & location of corridor information are approximate only and may vary 06/09/2021 SCA & PAA added to map Status: IFU 29/07/2021 Issued for Use Issued To: G.Gunther Author: awolhuter 26/07/2021 Issued for re (2)Rev Date Revision Description

Property 2: 1DY931, 70DY138, 1RP154777, 1DY787, 60DY802, 2RP106958, 2RP99387, 2DY787 and 1RL2451

Property Details

- This property is designated as cropping (Class 3.3), except for Lot 1RL2451 which is designated as grazing / native vegetation.
- This property is presently utilised for dryland and irrigated crops, except for Lot 1RL2451 which is used as a road.
- Proposed infrastructure is to be located on parcels 1DY931, 70DY138, 1RP154777, 1DY787, 60DY802, 2RP106958 and 1RL2451. No infrastructure is proposed to be located on the parcels 2RP99387 and 2DY787.
- There are four well pads proposed to be located on this property.
- Of these, there are two single well pads proposed to be located on 1DY931. Both
 of these well pads are proposed to be located on the boundary of this lot.
 Gathering and access tracks are also proposed to be located along the boundary
 of this lot along with the valves and low point drains proposed for this lot.
- There is a proposed 4-well multi-well pad to be located on 1DY787 in the south eastern corner of the paddock next to the Moonie Highway. There is also gathering proposed to be located along the southern boundary of this lot along with a valve and future service connection and an access track proposed to run parallel to the Moonie Highway.
- There is a 3-well multi-well pad proposed to be located on 1RP154777 towards the middle of the paddock. An access track will traverse half the length of the paddock with gathering traversing the length of the paddock and then a section of the southern boundary. The low point drains and high point vents proposed for this lot are located on the boundaries or within the RoW.
- Gathering is proposed to be co-located with an existing access track on 70DY138 with associated infrastructure located within the RoW also.
- Gathering is proposed to be located along the northern boundary of 60DY802 and a section of gathering is proposed to be located along the western boundary of 2RP106958.
- There is a proposed future gathering crossing location on the road 1RL2451.
- There are 10 deviated well trajectories proposed to enter this property from neighbouring lots at a subterranean depth of at least 200 m.
- Surrounding land use is generally cropping.



Image of Lot 1DY931



Image of Lot 1DY931



Image of Lot 70DY138



Image of Lot 70DY138



Image of Lot 1RP15477



Image of Lot 1RP15477





Image of Lot 1DY787





Image of Lot 2RP106958



Image of Lot 2RP106958



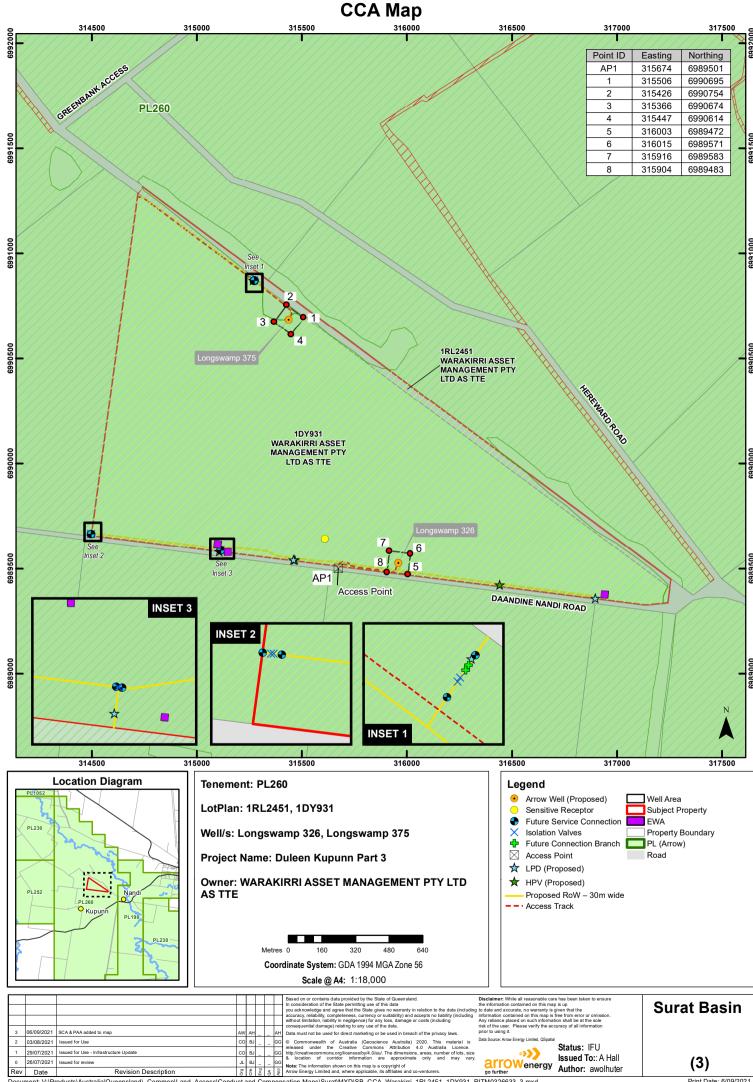
Image of Lot 1RL2451 (the tree line in the back of photo)

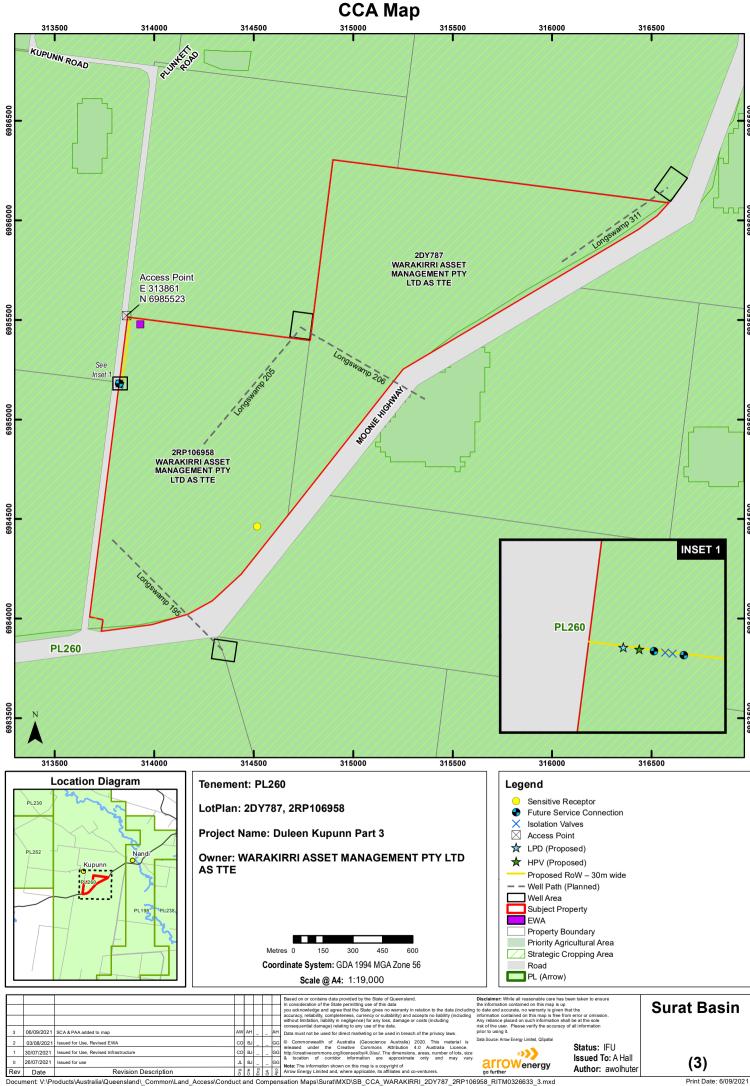
Field Layout Summary

- The locations of above ground infrastructure is indicative only at this stage and once an engineering review has been undertaken infrastructure will be re-located to more strategic locations to minimise impacts to farming activities.
- Arrow will utilise existing landholder access tracks to access infrastructure and will upgrade existing tracks as necessary.
- The section of gathering proposed to be located on 2RP106958 is adjacent the road to minimise impacts. This pipeline will be constructed as close to the road as possible.
- The proposed infrastructure on 1DY931 is to be located along property boundaries and adjacent existing roads and access tracks to avoid and/or minimise impacts to farming activities.
- The proposed infrastructure on 1DY787 is adjacent the Moonie Highway. The proposed access track runs adjacent the highway and the well pad is positioned in the corner to minimise impacts. The proposed gathering location has been selected because it is the shortest and most direct route.
- The proposed infrastructure on 60DY802 is directly adjacent the northern boundary of the property to minimise impacts to farming activities.
- The proposed well pad on 1RP154777 has been located next to a shed in the centre of the property to utilise an existing disturbed area and in a location with an existing access point. The proposed access track has been selected to utilise existing access and the proposed gathering is situated along this existing access. The selection of the location for this well pad has allowed Arrow to exclude less accessible areas of the property and also allows Arrow to minimise impacts to farming activities as much as practicable.
- The proposed gathering on 70DY138 is directly adjacent Kupunn Road on an existing access track located on the property boundary to minimise impacts to farming activities.

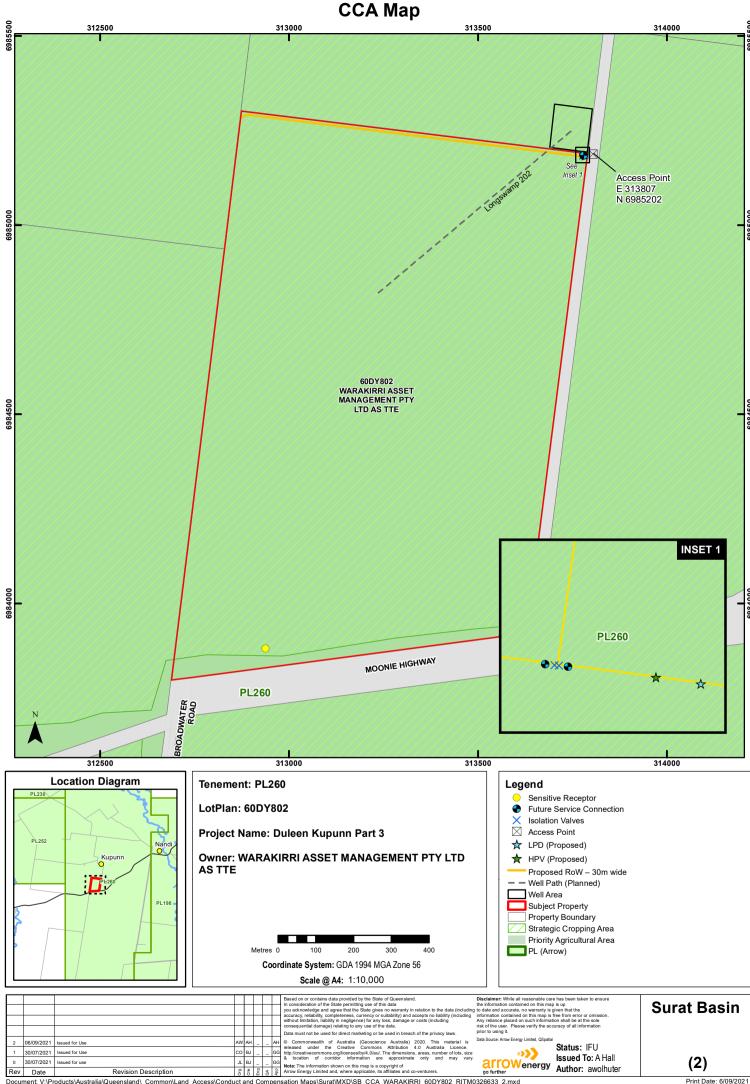
Infrastructure summary

- 2 x single well pads 2 ha (during construction) reducing to 240 m² (120 m² each) (during operation)
- 1 x 3-well multi-well pad 1.3 ha (during construction) reducing to 230 m² (during operation)
- 1 x 4-well multi-well pad 1.45 ha (during construction) reducing to 285 m² (during operation)
- Pipeline Right of Way 30 ha (during construction)
- Access track 1 ha (operational footprint)
- 11 x high point vents 0.032 ha (operational footprint)
- 10 x low point drains 0.036 ha (operational footprint)
- 16 x valves 0.00032 ha (operational footprint)
- 10 x subterranean deviated well trajectories
- Up to 7 x Extra Work Areas 0.25 ha (during construction)

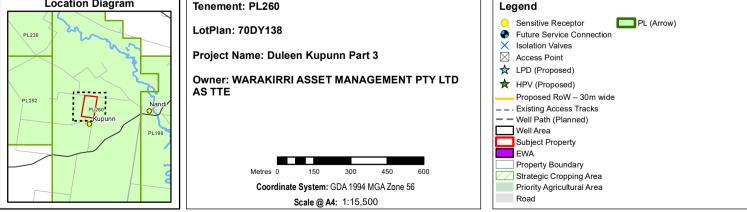




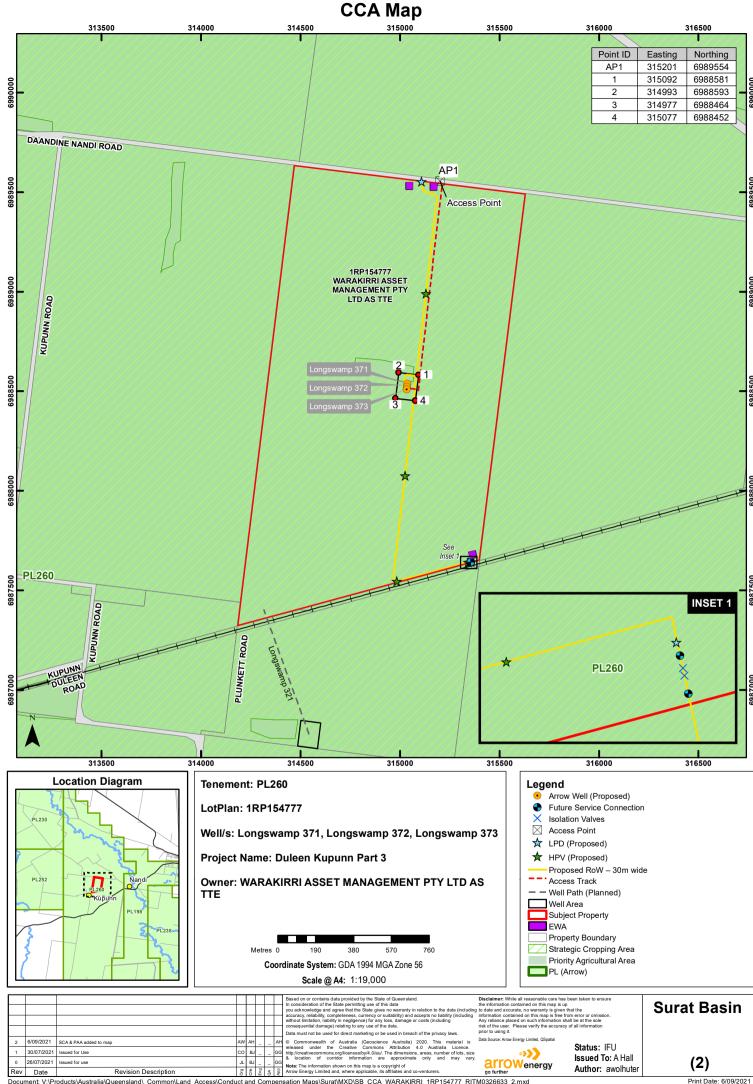
CCA Map HEHRIMAND ROAD 315000 317000 318000 PL260 DAANDINE NANDI ROAD INSET 1 **PL260** 2RP99387 WARAKIRRI ASSET MANAGEMENT PTY LTD AS TTE Longswamp 333 PLUNKETT ROAD 1DY787 WARAKIRRI ASSET MANAGEMENT PTY LTD AS TTE AP1 Access Point Northing Point ID Easting 6986827 AP1 316921 MOONIE HIGHWAY 316679 6986212 316598 6986270 2 6986152 3 316514 316595 6986094 315000 317000 316000 318000 **Location Diagram** Tenement: PL260 Legend Arrow Well (Proposed) LotPlan: 2RP99387, 1DY787 Sensitive Receptor Future Service Connection Well/s: Longswamp 311, 312, 313, 314 X Isolation Valves \boxtimes Access Point Project Name: Duleen Kupunn Part 3 ★ HPV (Proposed) Proposed RoW - 30m wide **Owner: WARAKIRRI ASSET MANAGEMENT PTY LTD** - - · Access Track **AS TTE** - - Well Path (Planned) ☐ Well Area Subject Property Property Boundary Strategic Cropping Area 400 600 Priority Agricultural Area Coordinate System: GDA 1994 MGA Zone 56 PL (Arrow) Scale @ A4: 1:22,000 **Surat Basin** Data Illustrato de uses or unest financiarios de Sacializado 2020. This material is released under the Creative Commons Attribution 4.0 Australia Licence. http://creative.commons.org/licenses/by/4.0/leu/. The dimensions, areas, number of lofs, size & location of corridor information are approximate only and may vary 06/09/2021 SCA & PAA added to mag Status: IFU 30/07/2021 Issued for Use Issued To: A Hall Author: awolhuter 26/07/2021 Issued for rev (2)| JL | BJ | _ - | GG | Note: The information shown on this map is a copyright of Arrow Energy Limited and, where applicable, its affiliates and co-venturers Rev Date Revision Description



CCA Map 312500 313000 313500 314000 314500 315000 HOADLEYS ROAD PL260 DAANDINE NANDI ROAD **INSET 1** 70DY138 WARAKIRRI ASSET MANAGEMENT PTY LTD AS TTE **PL260** Access Point Inset 2 N 6988201 Longswamp 357 **INSET 2 PL260** KUPUNN ROAD 315000 314500 312500 313000 314000 313500 **Location Diagram** Tenement: PL260 Legend Sensitive Receptor PL (Arrow) LotPlan: 70DY138 Future Service Connection PL230 Isolation Valves Project Name: Duleen Kupunn Part 3 \boxtimes Access Point ★ LPD (Proposed) **Owner: WARAKIRRI ASSET MANAGEMENT PTY LTD** ★ HPV (Proposed) **AS TTE** Proposed RoW - 30m wide PL252 Existing Access Tracks - - Well Path (Planned) Well Area Subject Property EWA Property Boundary 300 450



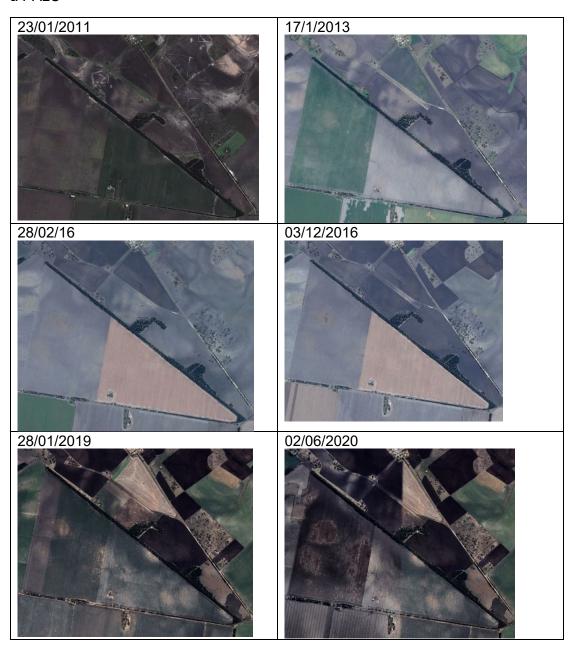
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Rev	Date	Revision Description	ő	Chk Eng	8		Arrow Energy Limited and, where applicable, its affiliates and co-venturers.	go further	Author: awolhuter	(-)
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Appendix 4: Aerial photography and satellite imagery for years 2011-2020 for 1RL2451

Based on the aerial imagery below, it appears that the area leased for a road is remnant vegetation, it is not mapped as SCA and it can be demonstrated to not be PAA, due to the imagery showing remnant vegetation which demonstrates a lack of cropping over the past 10 years.

1RL2451– Imagery illustrates the proposed area to be disturbed by the wellfield development has consistently been vegetated since 2011 and has not been used for a PALU





Appendix 5: Queensland Land Use Mapping Program (QLUMP)

Land use in this mapping is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, 2016, based upon land use within the Condamine natural resource management region as at 2012.





Land Use Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Other minimal use Secondary roads; Streets Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam 1360 2040 2720

The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use . It presents the most current land use information available in Queensland.

Land use is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, October 2016. Primary and secondary levels relate to land use (i.e. the principal use of the land in terms of the objectives of the land manager), the tertiary level further discriminate land use, eg. commodity/intensity. Where required and possible, attribution is performed to tertiary level. QLUMP maps the land use classes of sugar and cotton consistently to tertiary level. The minimum attribution level for land use mapping in Queensland is secondary land use, as presented in this map.

Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at

http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

While every care is taken to ensure the accuracy of this information, the Department of Environment and Science makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all perpenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the information being inaccurate or incomplete in any way and for any reason.

This product is projected into GDA 1994 Queensland Albers





Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Nature conservation Secondary roads; Streets Other minimal use Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam 1360 2040 2720

The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use. It presents the most current land use information available in Queensland.

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Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at

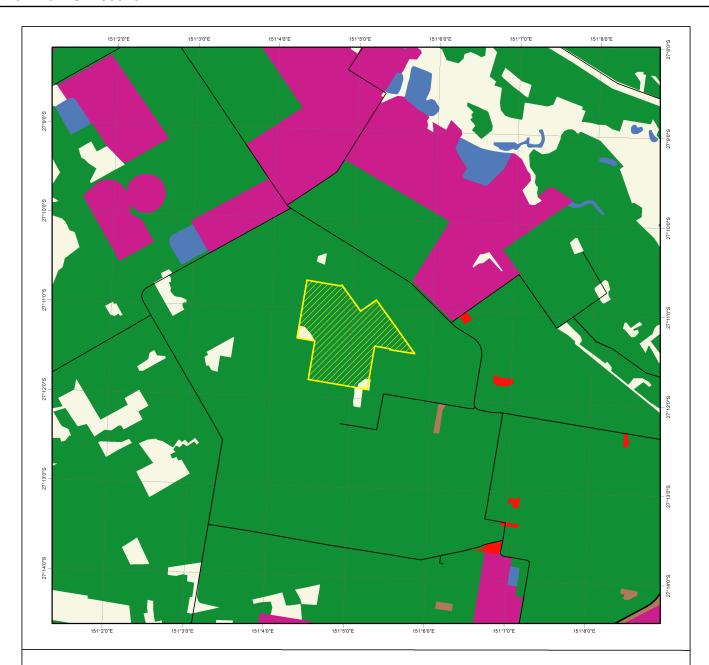
http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

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This product is projected into GDA 1994 Queensland Albers

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The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use. It presents the most current land use information available in Queensland.

Land use is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, October 2016. Primary and secondary levels relate to land use (i.e. the principal use of the land in terms of the objectives of the land manager), the tertiary level further discriminate land use, eg. commodity/intensity. Where required and possible, attribution is performed to tertiary level. QLUMP maps the land use classes of sugar and cotton consistently to tertiary level. The minimum attribution level for land use mapping in Queensland is secondary land use, as presented in this map.

Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at

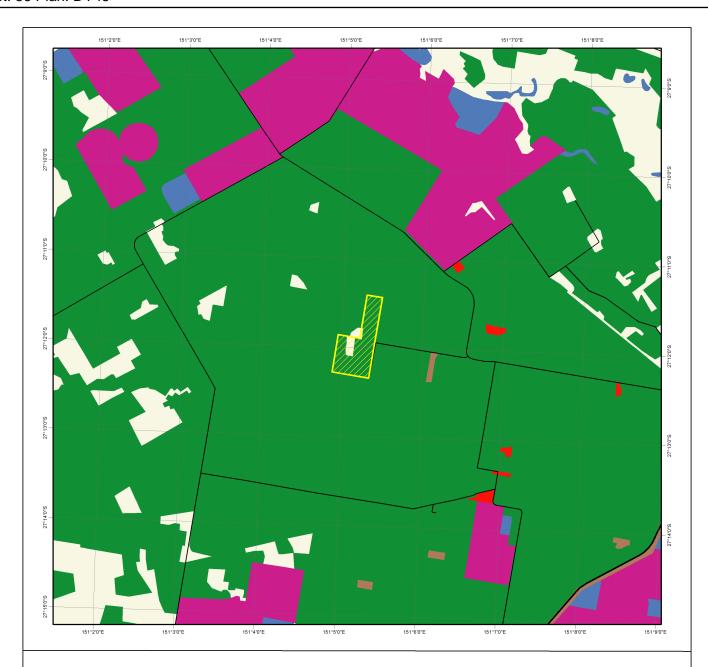
http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

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Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Other minimal use Secondary roads; Streets Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam 1360 2040 2720 This product is projected into GDA 1994 Queensland Albers

The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use. It presents the most current land use information available in Queensland.

Land use is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, October 2016. Primary and secondary levels relate to land use (i.e. the principal use of the land in terms of the objectives of the land manager), the tertiary level further discriminate land use, eg. commodity/intensity. Where required and possible, attribution is performed to tertiary level. QLUMP maps the land use classes of sugar and cotton consistently to tertiary level. The minimum attribution level for land use mapping in Queensland is secondary land use, as presented in this map.

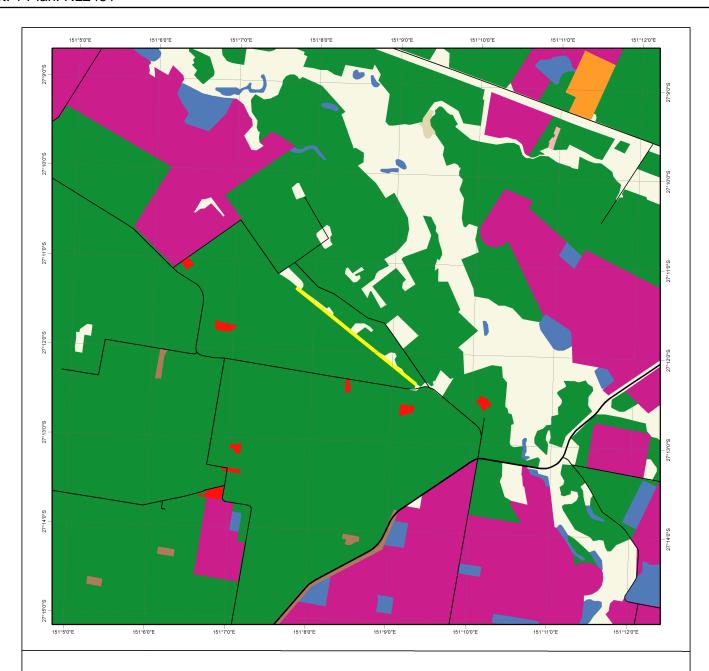
Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at

http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

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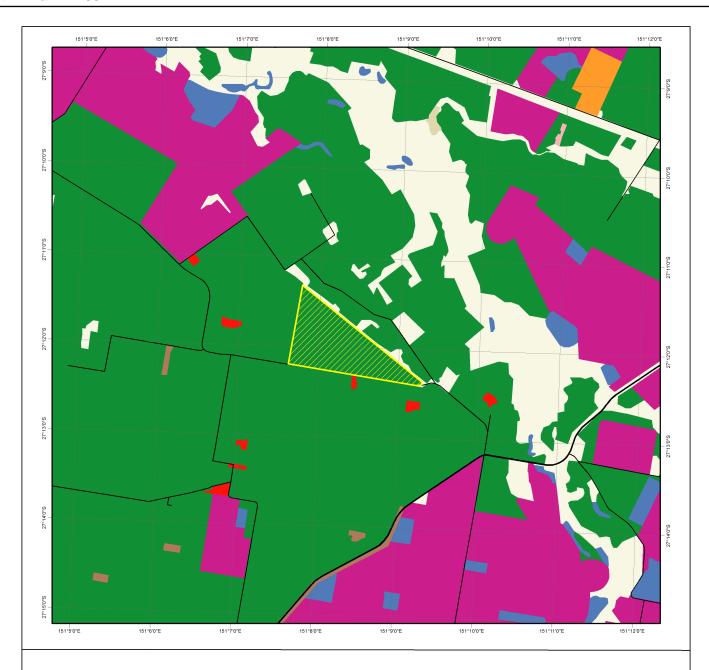
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Land Use Queensland Land Use Mapping Program Legend The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use. It presents the most current land use **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Nature conservation Secondary roads; Streets information available in Queensland. Other minimal use Land use is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, October 2016. Primary and secondary levels relate to land use (i.e. the principal use of the land in terms of the objectives of the land manager), the Grazing native vegetation Cropping Irrigated cropping tertiary level further discriminate land use, eg. commodity/intensity. Where required and possible, attribution is performed to tertiary level. QLUMP maps the land use classes of sugar and cotton Intensive animal production Residential and farm infrastructure consistently to tertiary level. The minimum attribution level for land use mapping in Queensland is secondary land use, as presented in Reservoir/dam this map. Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/ and http://www.agriculture.gov.au/abares/aclump/land-use/ While every care is taken to ensure the accuracy of this information, the Department of Environment and Science makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which might be incurred as a result of the information being inaccurate or incomplete in any way 1360 2040 2720 and for any reason. This product is projected into GDA 1994 Queensland Albers





Land Use Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Nature conservation Secondary roads; Streets Other minimal use Grazing native vegetation Cropping Irrigated cropping Intensive animal production Residential and farm infrastructure Reservoir/dam 1360 2040 2720

The land use dataset is a product of the Queensland Land use Mapping Program (QLUMP), at a nominal scale of 1:50,000. The layer is a polygon dataset with each feature having attributes describing land use. It presents the most current land use information available in Queensland.

Land use is classified according to the Australian Land Use and Management Classification (ALUMC) Version 8, October 2016. Primary and secondary levels relate to land use (i.e. the principal use of the land in terms of the objectives of the land manager), the tertiary level further discriminate land use, eg. commodity/intensity. Where required and possible, attribution is performed to tertiary level. QLUMP maps the land use classes of sugar and cotton consistently to tertiary level. The minimum attribution level for land use mapping in Queensland is secondary land use, as presented in this map.

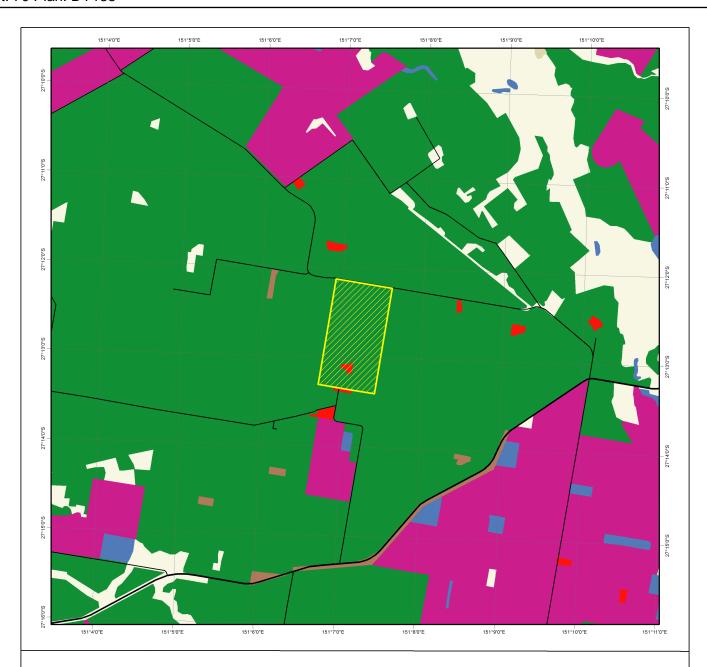
Refer to the contact position for additional information regarding source data. Further information relating to land use mapping can be found at

http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

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This product is projected into GDA 1994 Queensland Albers





Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Nature conservation Secondary roads; Streets Other minimal use Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam 1360 2040 2720 This product is projected into GDA 1994 Queensland Albers

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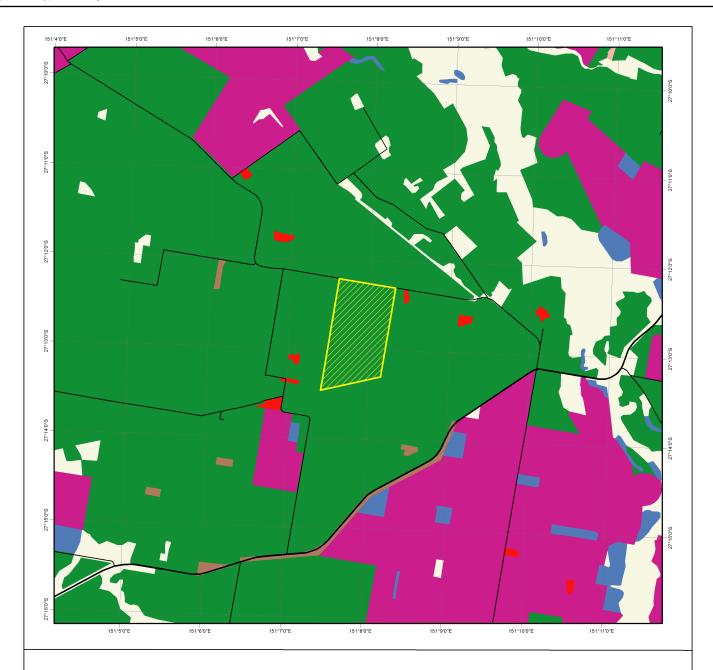
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Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Nature conservation Secondary roads; Streets Other minimal use Grazing native vegetation Cropping Irrigated cropping Intensive animal production Residential and farm infrastructure Reservoir/dam 1360 2040 2720

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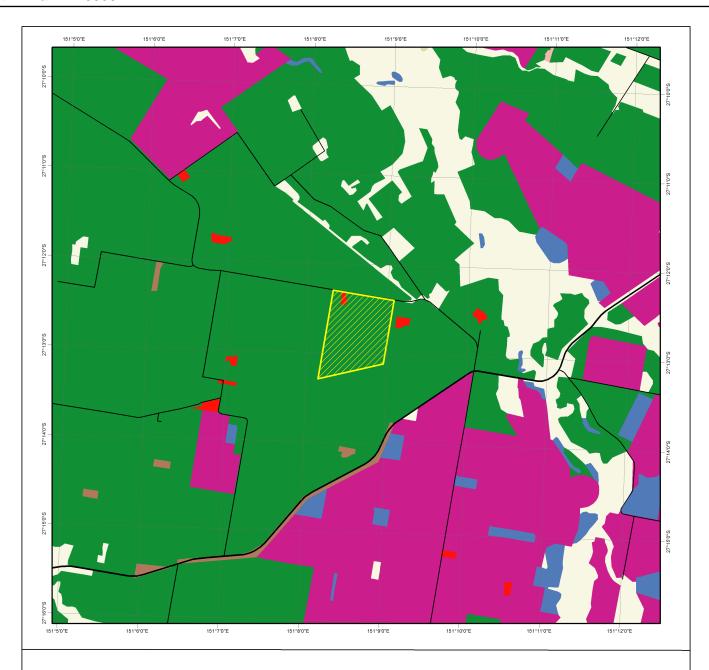
http://www.qld.gov.au/environment/land/vegetation/mapping/qlump/and http://www.agriculture.gov.au/abares/aclump/land-use/

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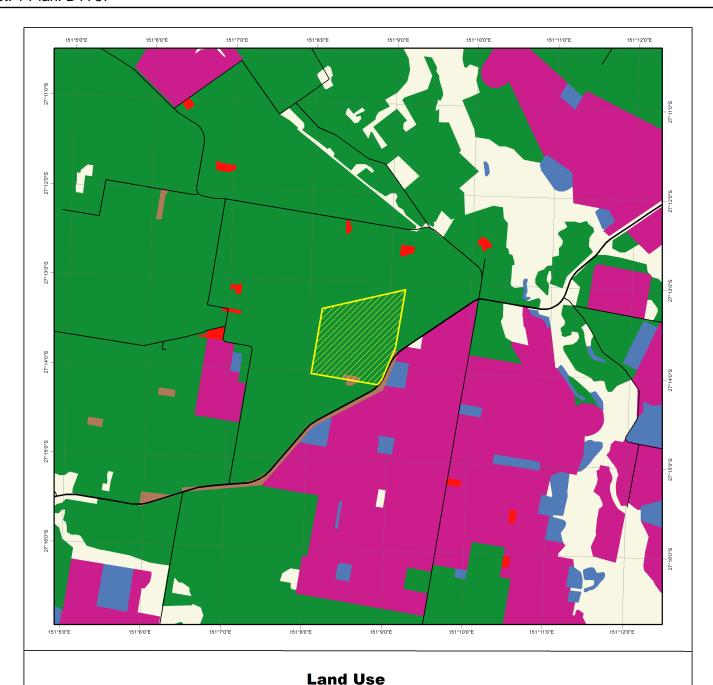
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Legend ALUM v8 Secondary level Selected Lot and Plan — Freeways / motorways; Highways Other minimal use — Secondary roads; Streets Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam

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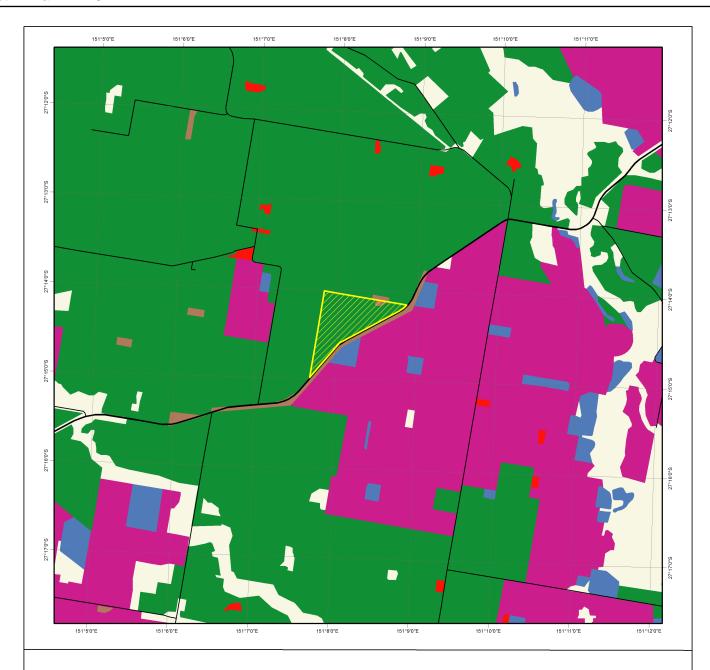
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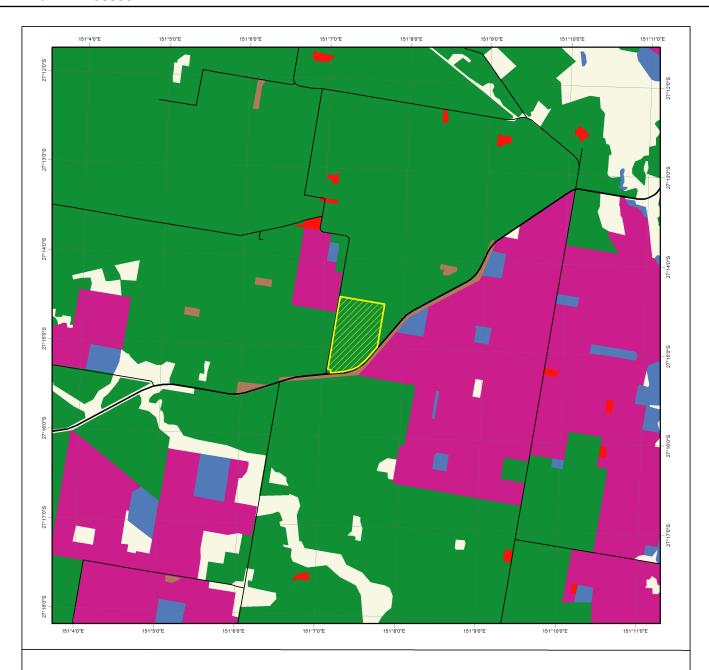
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Legend ALUM v8 Secondary level Selected Lot and Plan Other minimal use Grazing native vegetation Cropping Residential and farm infrastructure Reservoir/dam Reservoir/dam Queensland Land Use Mapping Program The la Mapping Program Mapping layer i Coschitty Diagram Locality Diagram Manager Prima use of tertian Where

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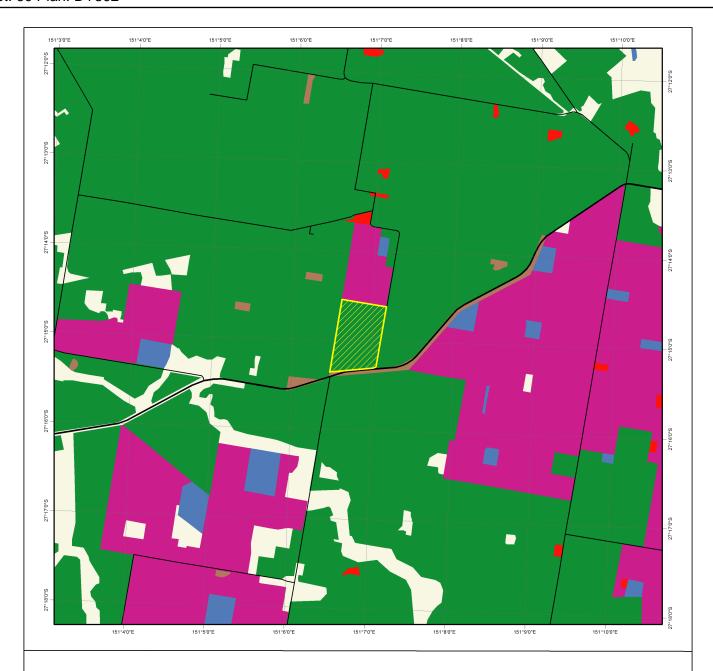
This product is projected into GDA 1994 Queensland Albers

2040

2720

1360





Land Use Queensland Land Use Mapping Program Legend **ALUM v8 Secondary level** Selected Lot and Plan Freeways / motorways; Highways Other minimal use Secondary roads; Streets Grazing native vegetation Cropping Irrigated cropping Residential and farm infrastructure Reservoir/dam 1360 2040 2720

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Appendix 6: Forage Crop Frequency Data for the years 2011 – 2020



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

June 25, 2021

Lot on Plan: 2RP85916,12SP193328,57SP193329,3 etc.

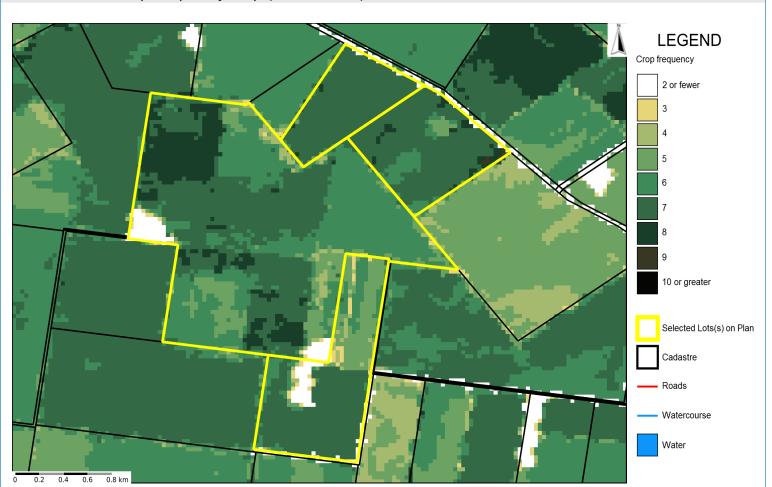


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Introduction

This report presents maps of crop frequency for your chosen area, and chosen time period. Maps are based on time-series analysis of satellite imagery (30-m spatial resolution), for both the summer and winter growing seasons, aimed at detecting cycles of greenness in vegetation. Composite satellite images that display the maximum greenness within a summer or winter growing season for each year are also provided, as a visual reference. For further information refer to the FORAGE User Guide (https://data.longpaddock.qld.gov.au/static/forage_user_guide.pdf).

Estimated total crop frequency map (2011 - 2020)



How to interpret the information

Crop-frequency mapping: Coloured areas on the maps indicate locations where active crops have been detected three or more times in the summer or winter growing seasons, for the time period specified. The map on this page shows "Total Frequency" which is a count of the number of times that an active crop was detected. The maps on the following page show the summer and winter crop frequency, respectively. Analysis of satellite imagery can result in some misclassification, so it is recommended to view the composite imagery (see below) to help confirm the presence of a crop in a given season.

Mapping of broad groups of crops: Crop frequency is also separated into estimates of the broad crop groups within the area. This estimation is based on an automated classification approach (see https://www.qld.gov.au/environment/land/management/mapping/statewide-monitoring/crops for more detail).

In the winter season the classification differentiates between the groups:

- Cereal crops (e.g. wheat, barley, oats);
- Pulse crops (e.g. chickpea).

In the summer season the classification differentiates between the groups:

- Coarse-grain and pulse (e.g. sorghum, maize, mungbean);
- Cotton crop.

Composite satellite imagery: Due to the limitations of the automated method used to detect active cropping, it is recommended to view the seasonal composite images (pages 5 onward), compiled to represent the maximum greenness (per pixel) within a growing season. 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 composite image to confirm that cropping has not been undertaken. Sometimes it will not be possible to clearly identify cropped areas in the imagery, e.g in some wetter seasons the entire landscape might appear green. In this case, it is recommended to undertake further investigation using other information sources. Note: the composite images are only used to confirm the presence or absence of cropping activity; it is not possible to visually differentiate between the crop groups.

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

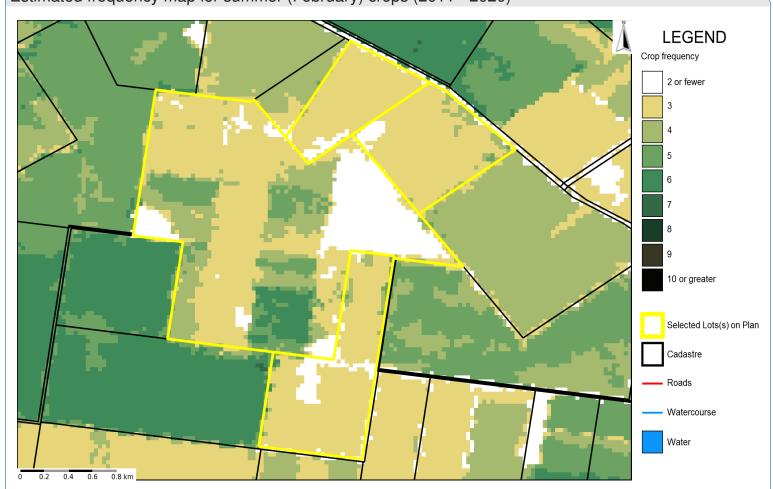
June 25, 2021

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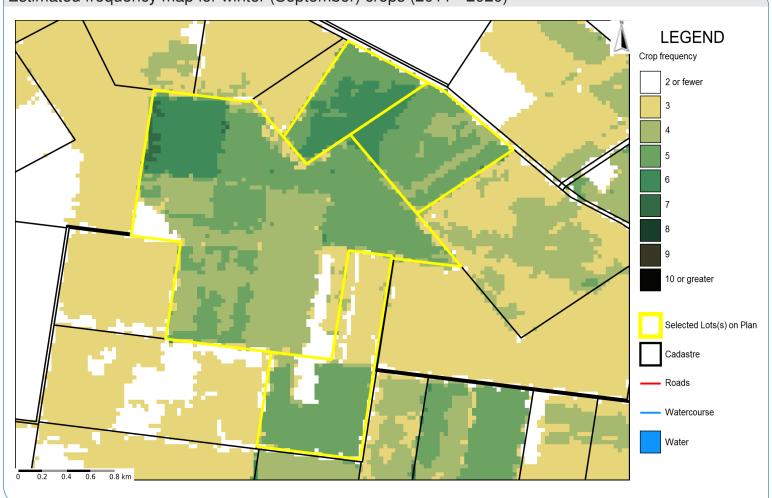
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Queensland Government

Estimated frequency map for summer (February) crops (2011 - 2020)



Estimated frequency map for winter (September) crops (2011 - 2020)



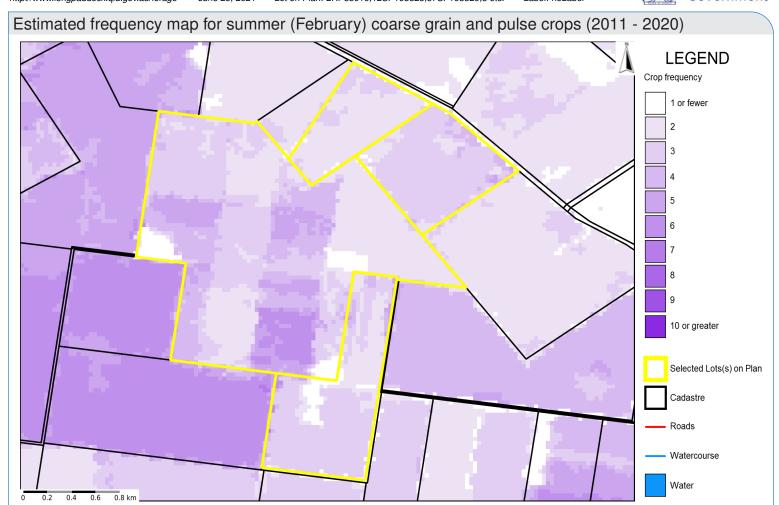
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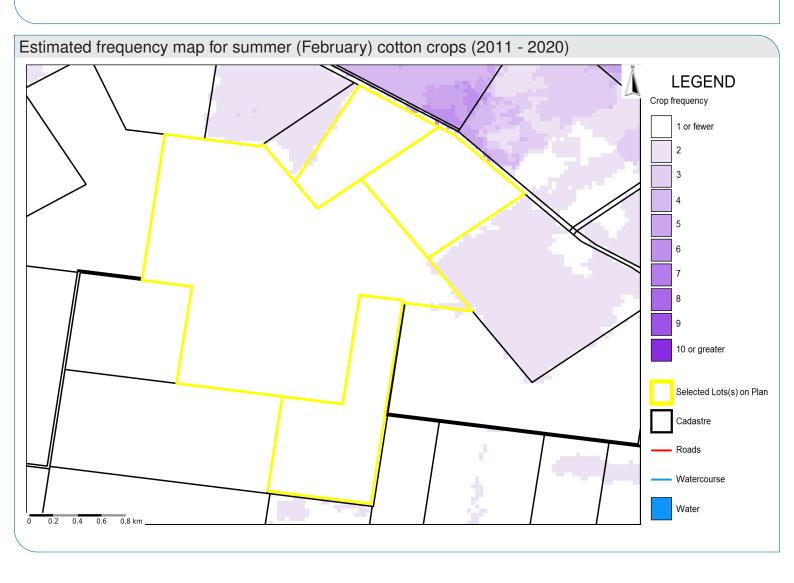
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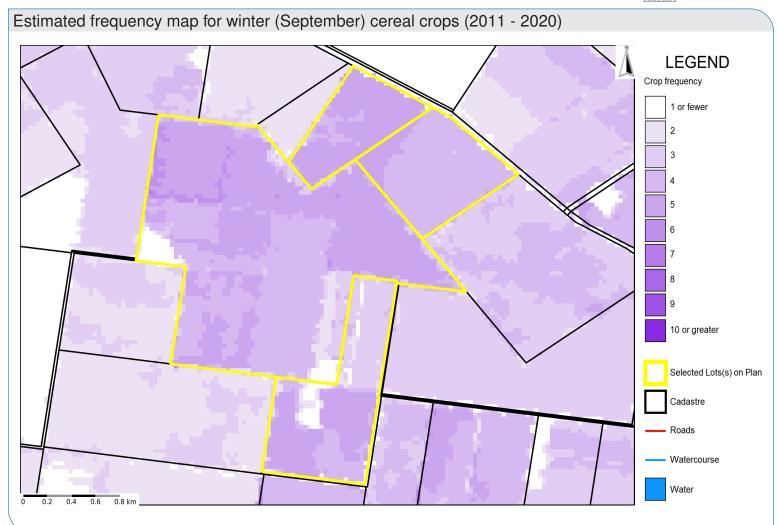
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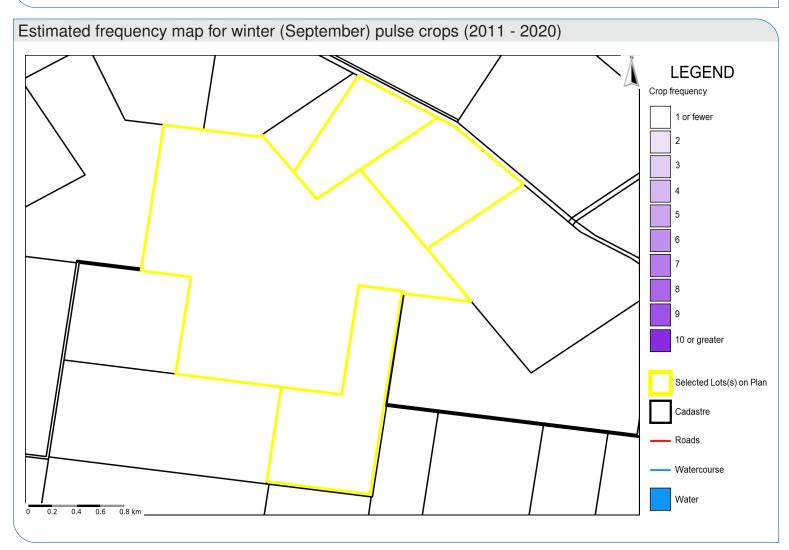
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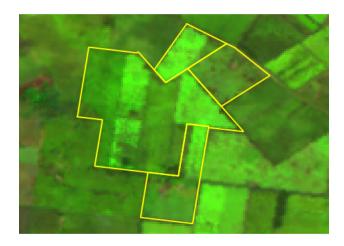
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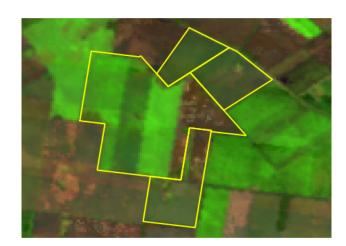
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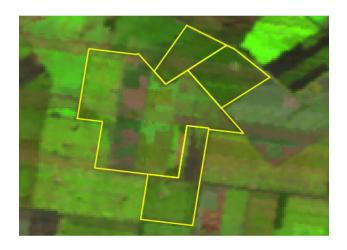
Queensland Government

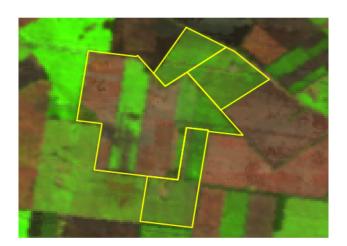
February (left) and September (right) images for 2011

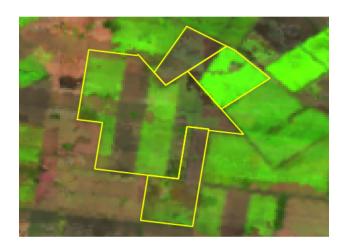




February (left) and September (right) images for 2012









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

June 25, 2021

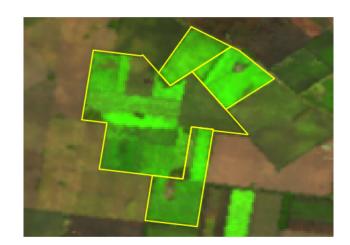
Lot on Plan: 2RP85916,12SP193328,57SP193329,3 etc.

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





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









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

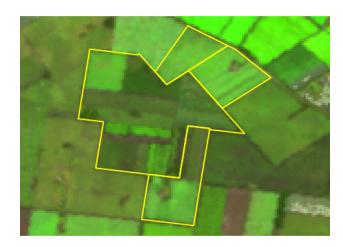
June 25, 2021

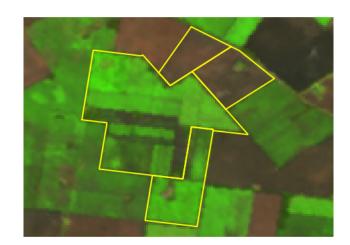
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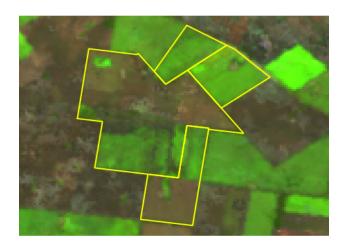


February (left) and September (right) images for 2017

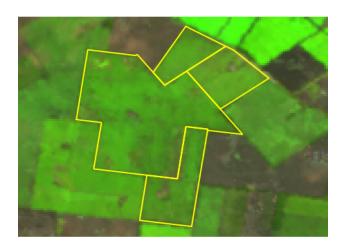




February (left) and September (right) images for 2018









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

June 25, 2021

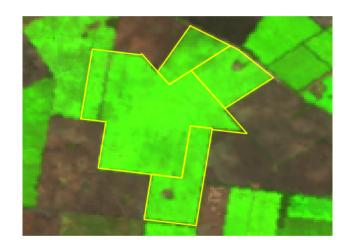
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February (left) and September (right) images for 2020





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June 25, 2021

Lot on Plan: 1DY931,2RP99387,1RP154777,70DY13 etc.

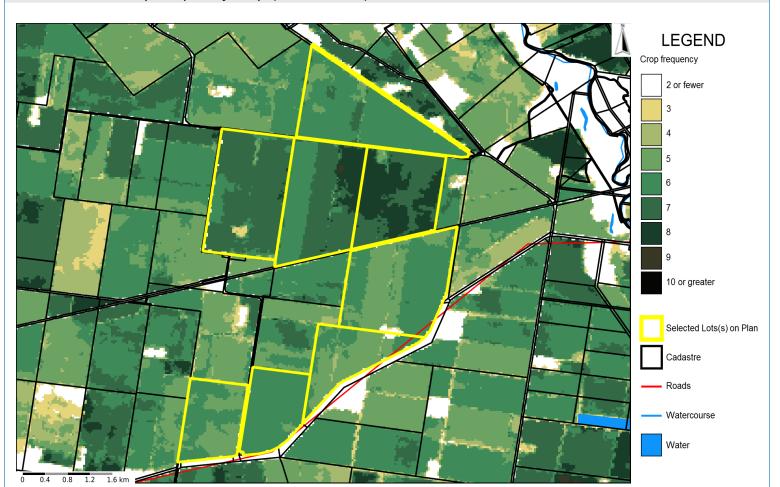
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Introduction

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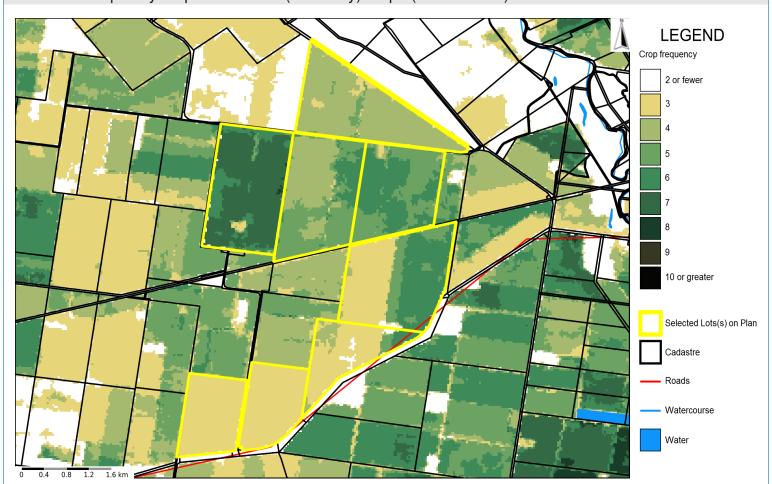
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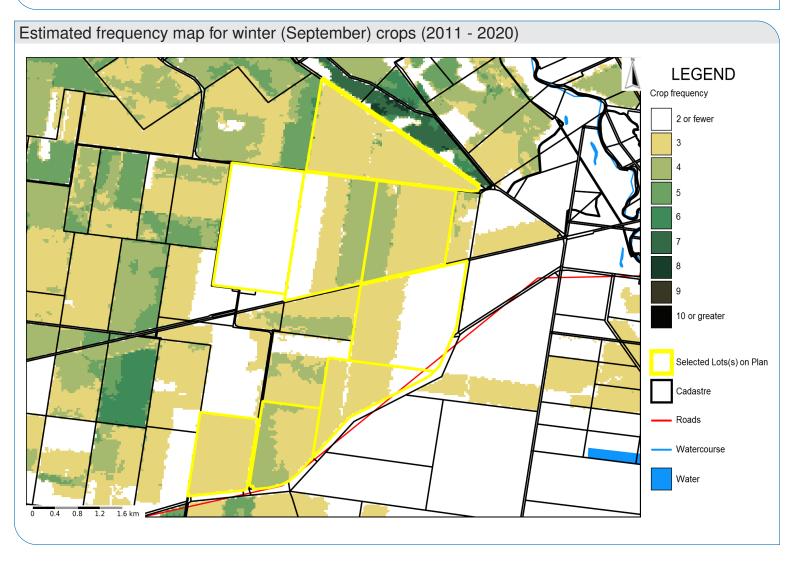
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Queensland Government

Estimated frequency map for summer (February) crops (2011 - 2020)





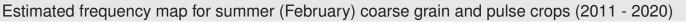
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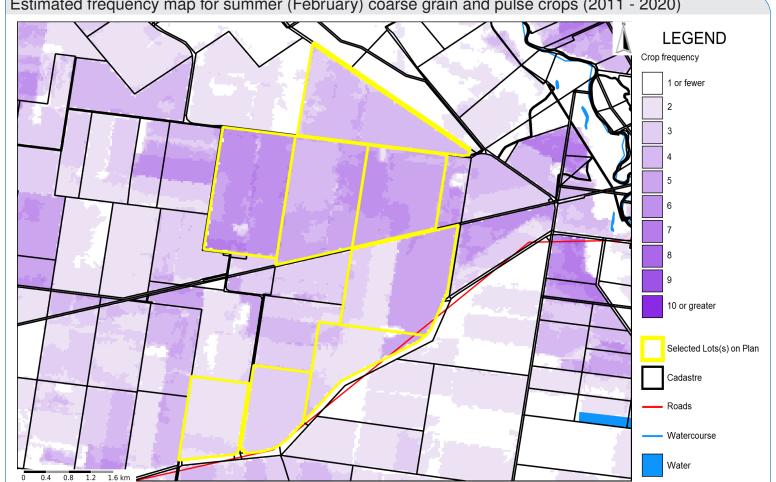
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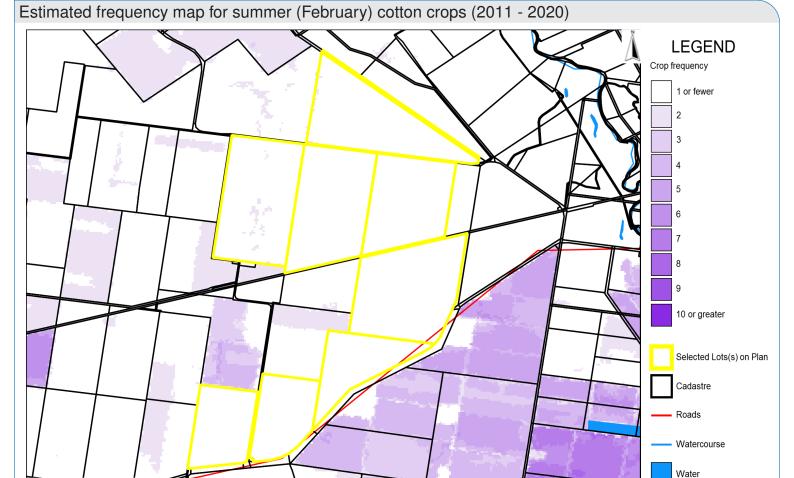
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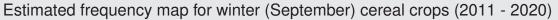
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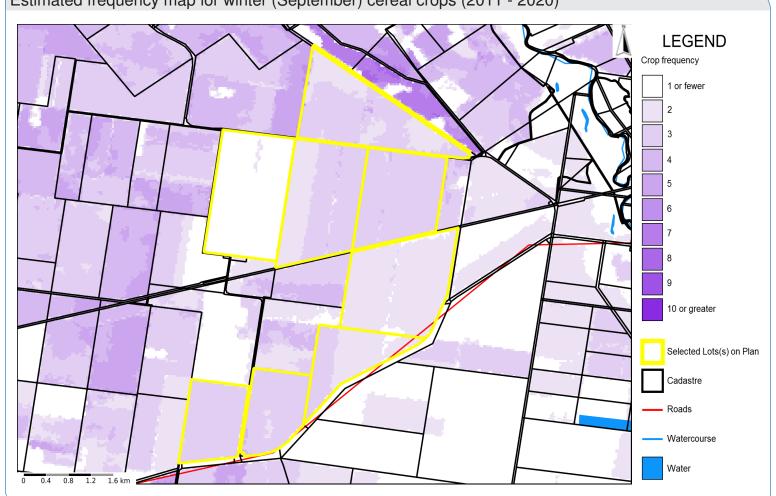
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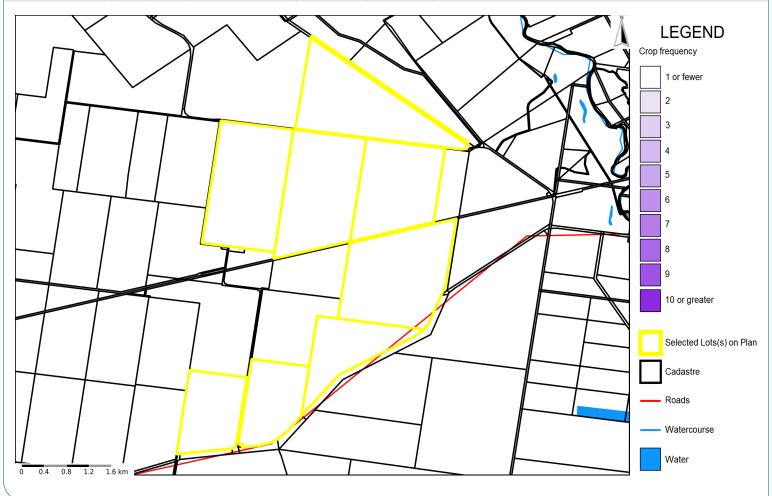
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Queensland Government





Estimated frequency map for winter (September) pulse crops (2011 - 2020)



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

June 25, 2021

Lot on Plan: 1DY931,2RP99387,1RP154777,70DY13 etc.

Label: noLabel

Queensland Government

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





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









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

June 25, 2021

Lot on Plan: 1DY931,2RP99387,1RP154777,70DY13 etc.

Label: noLabel

Queensland Government

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



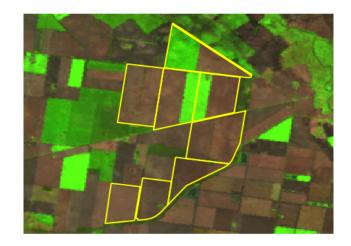


February (left) and September (right) images for 2015









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

June 25, 2021

Lot on Plan: 1DY931,2RP99387,1RP154777,70DY13 etc.

Label: noLabel

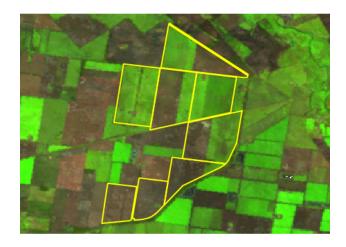


February (left) and September (right) images for 2017





February (left) and September (right) images for 2018









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

June 25, 2021

Lot on Plan: 1DY931,2RP99387,1RP154777,70DY13 etc.

Queensland Government

February (left) and September (right) images for 2020





Label: noLabel

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Appendix 7: Topography Map Series



