

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	<u>Doradine Spring</u>
AA Dam Number	177
Reserve Number	16276
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 177 – Reserve 16276 – Vested to Water & Rivers Commission



**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Kukerin No.1
AA Dam Number	180
Reserve Number	23159
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

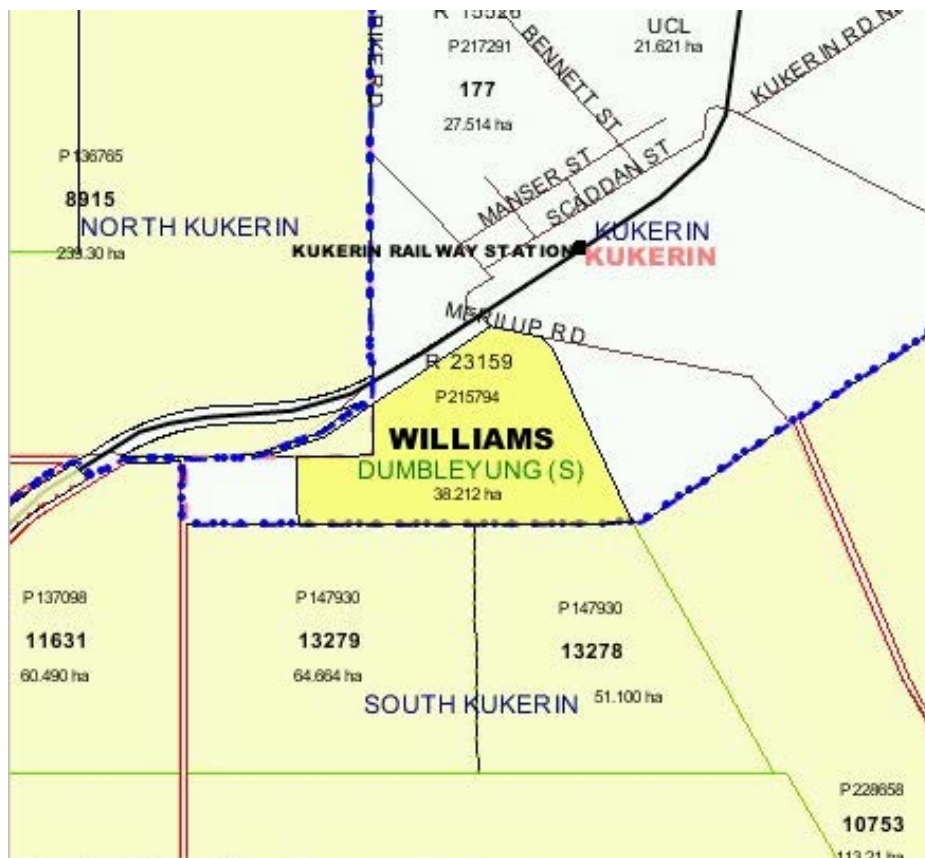
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 180 – Kukerin No. 1 - Reserve 23159 – Vested to Water Corporation





**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Kukerin North
AA Dam Number	183
Reserve Number	16344
Shire	Dumbleyung
WC Dam Category Classification	4
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 183 –Kukerin North - Reserve 16344 – Vested to Water Corporation







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Pingarning
AA Dam Number	201
Reserve Number	26757
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

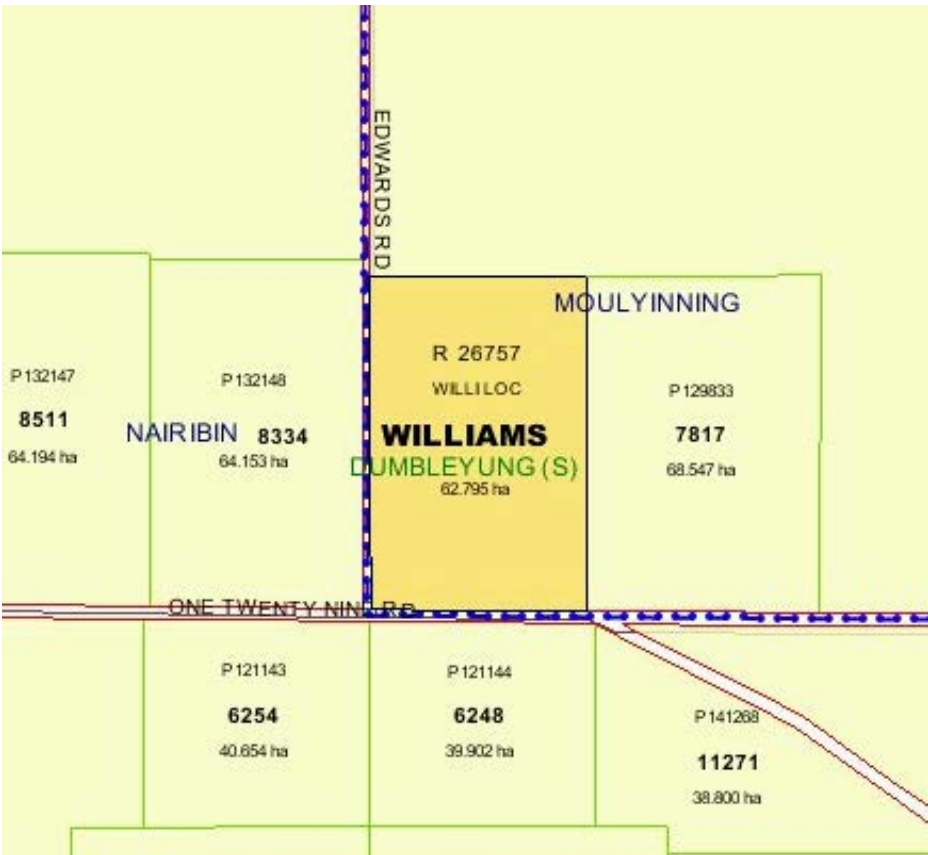
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 201 – Pingarning - Reserve 26757 –Responsible Agency Water Corporation







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Datatine Old
AA Dam Number	203
Reserve Number	12645
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

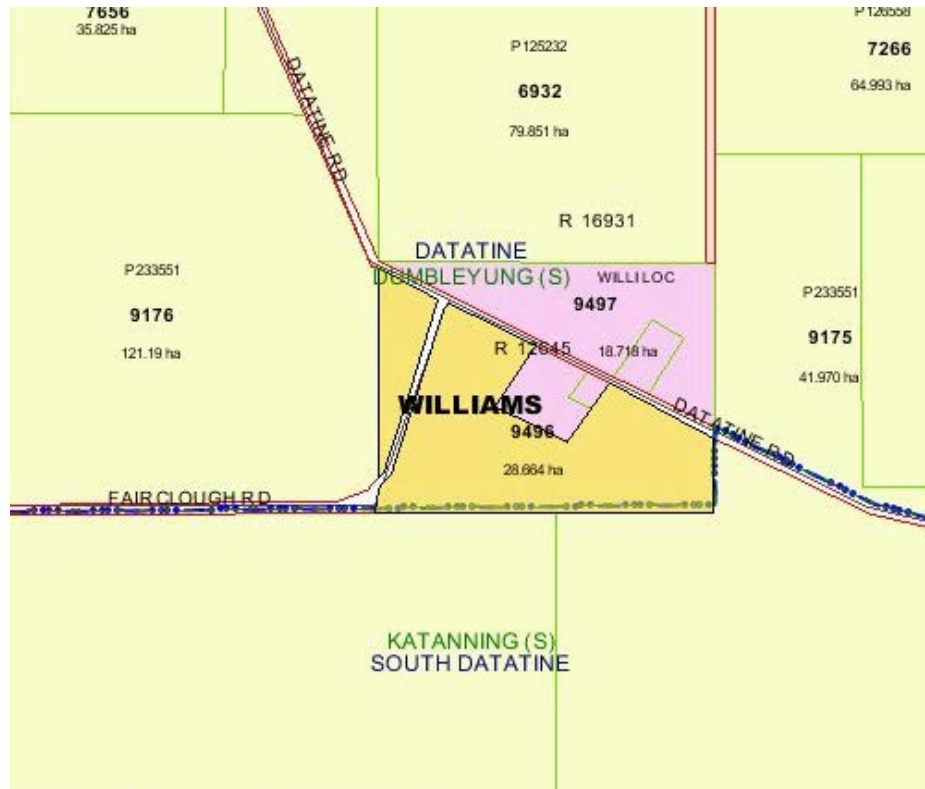
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 203 – Datatine Old - Reserve 12645 –Vested to Water & Rivers Commission



**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Datatine New
AA Dam Number	204
Reserve Number	12645
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

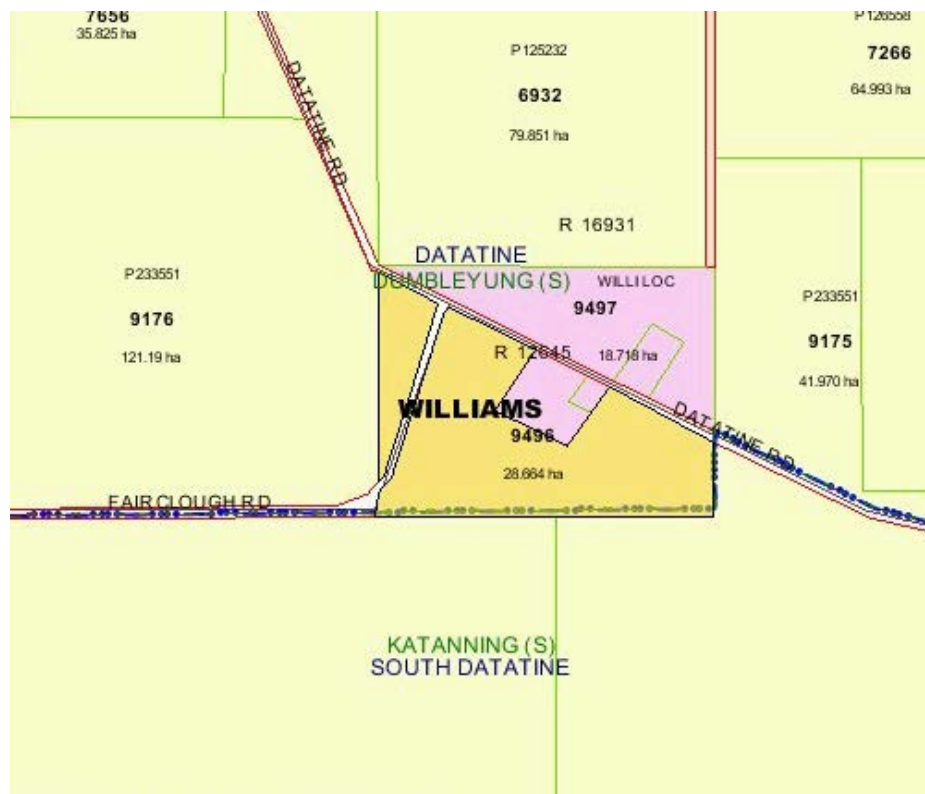
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

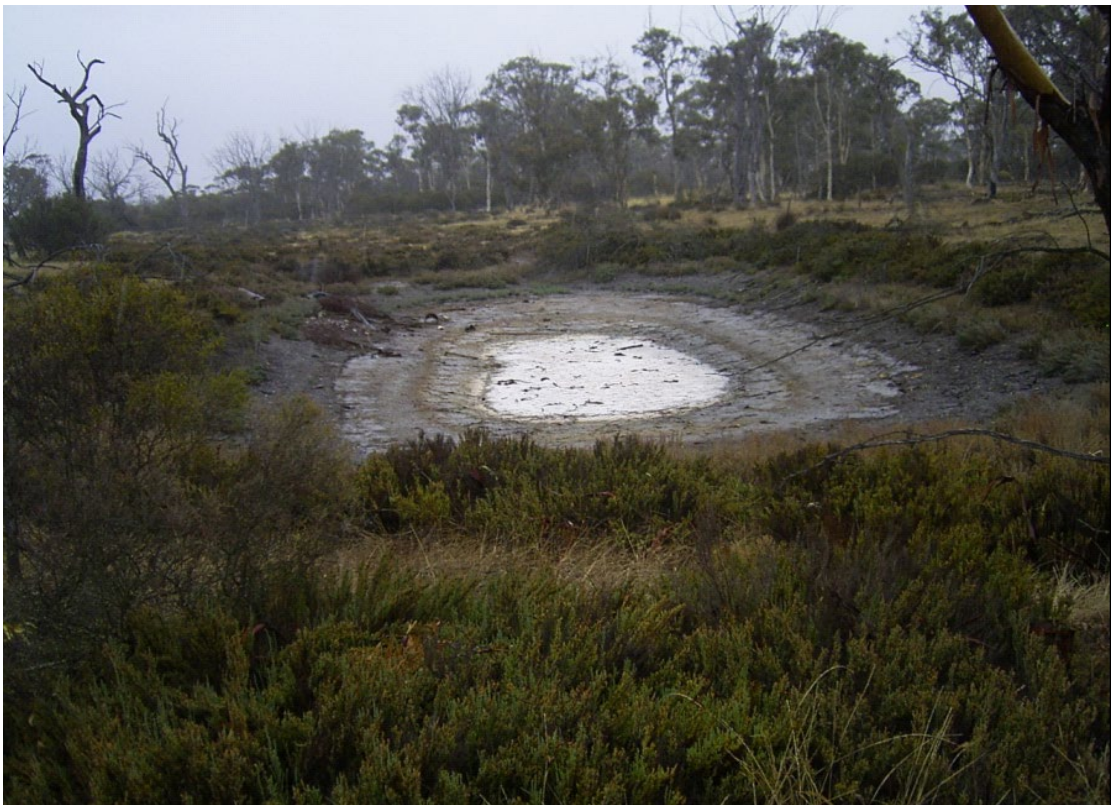
**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 204 – Datatine New - Reserve 12645 –Vested to Water & Rivers Commission









**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Bullock Hills
AA Dam Number	282
Reserve Number	11442
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

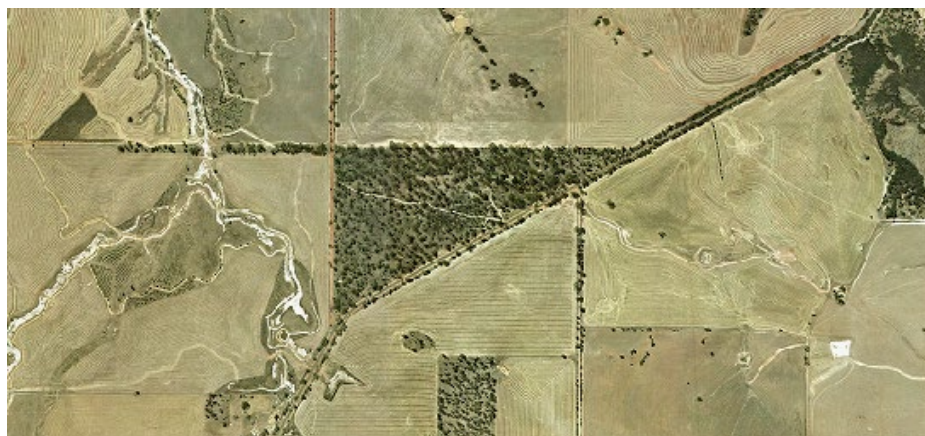
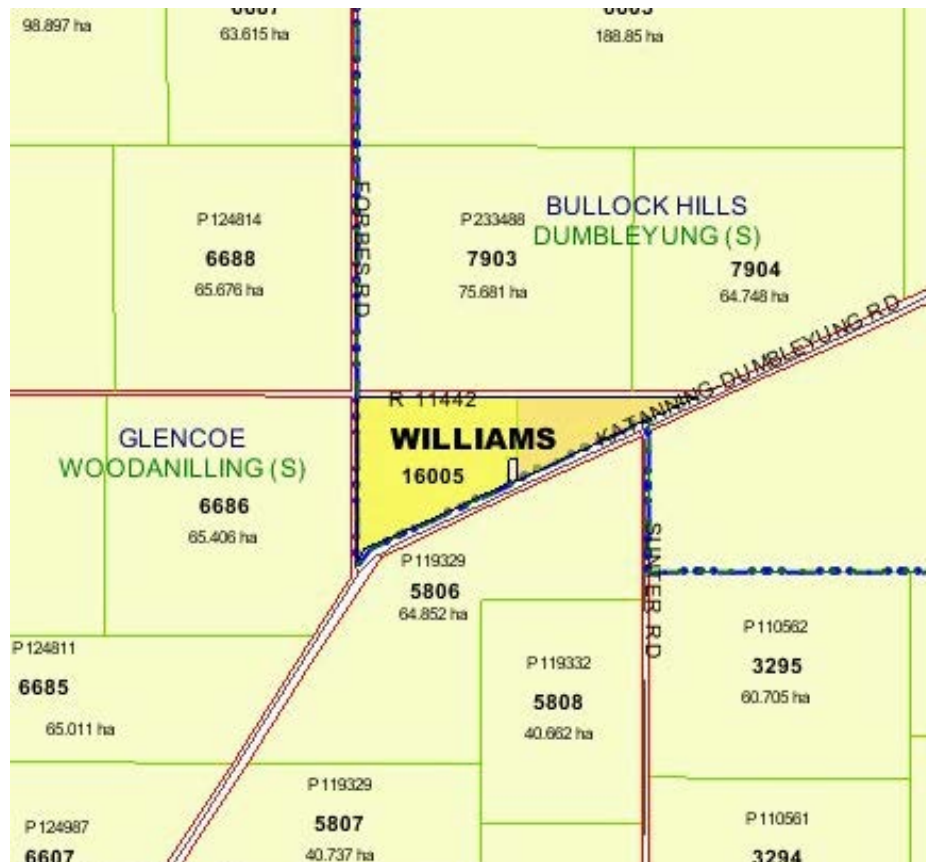
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 282 – Bullock Hills - Reserve 11442 –Vested to Water & Rivers







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Merilup
AA Dam Number	287
Reserve Number	16002
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 287 –Merilup Dam - Reserve 16002 – Vested to Water Corporation







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Nippering
AA Dam Number	339
Reserve Number	12665
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 339 – Nippering - Reserve 12665 –Vested to Water & Rivers Commission







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Merilup
AA Dam Number	375
Reserve Number	12314
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

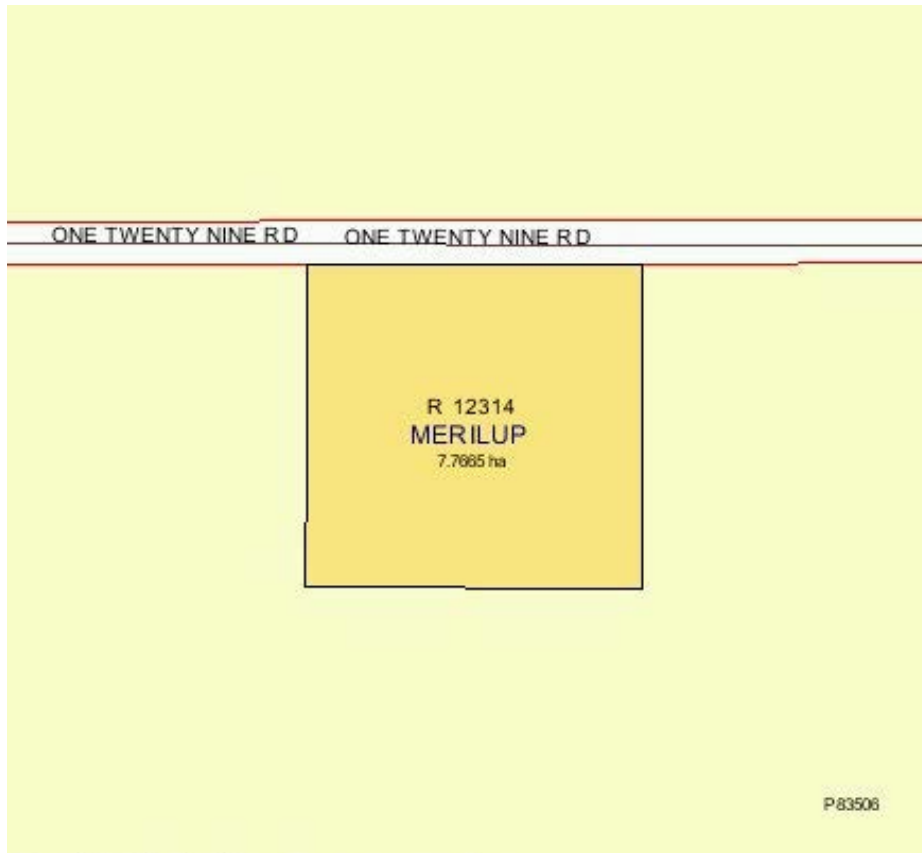
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 375 – Merilup Soak - Reserve 12314 –Responsible Agency Water Corporation



**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Merilup North
AA Dam Number	383
Reserve Number	18254
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

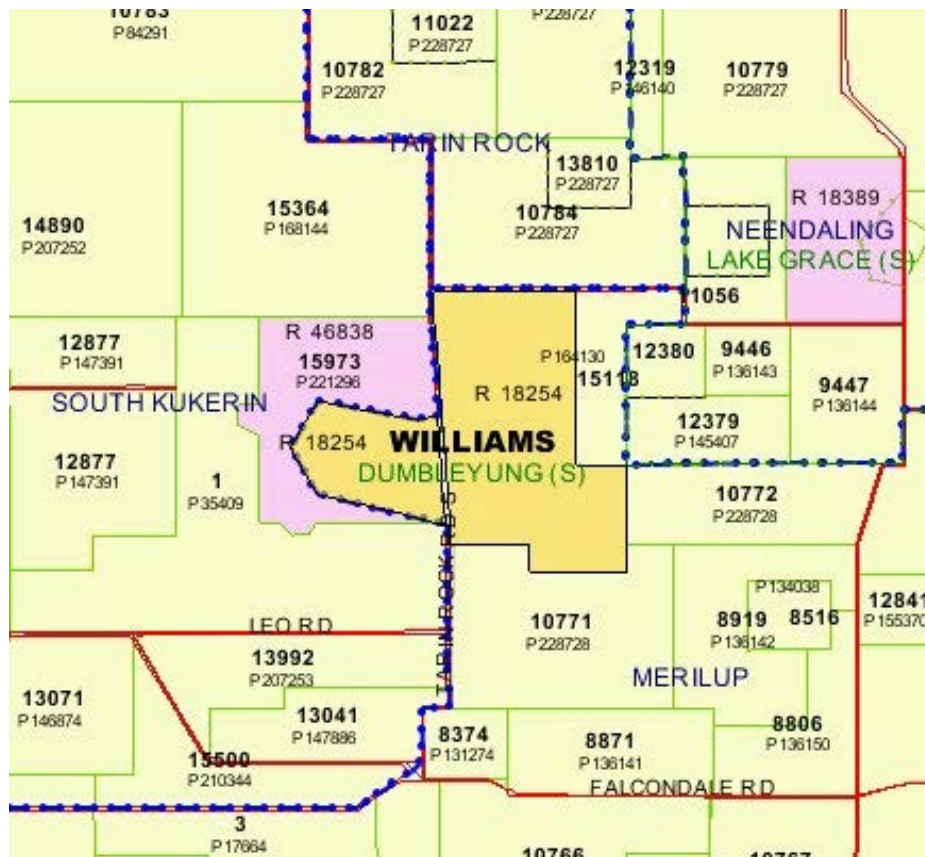
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

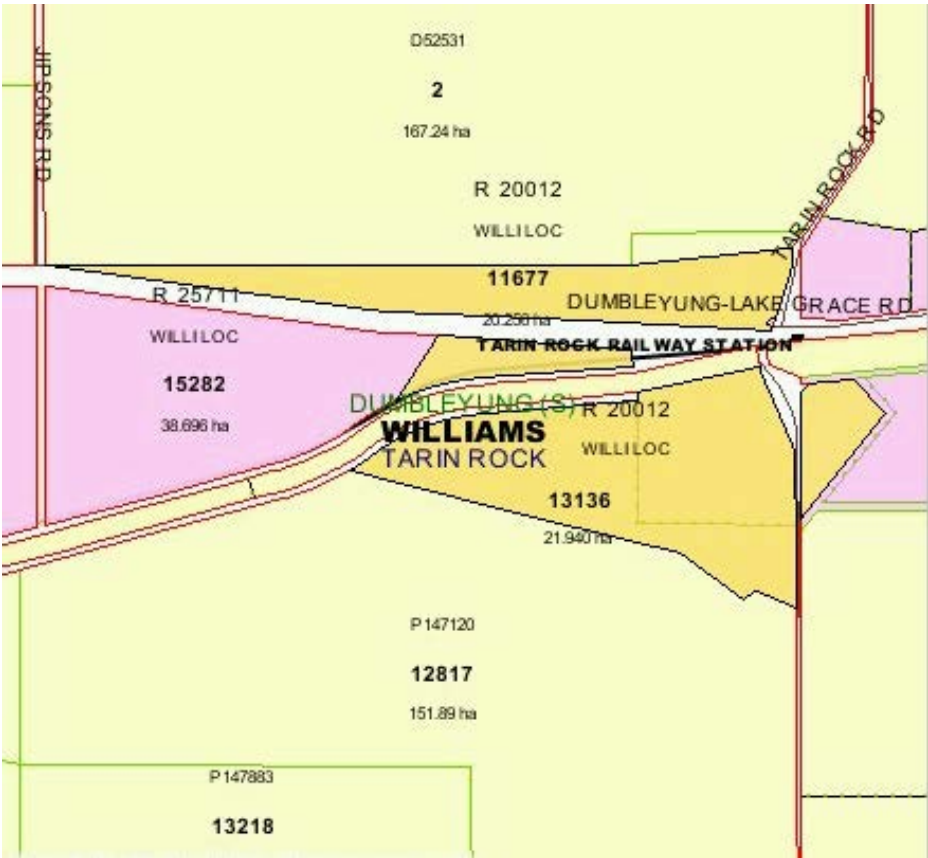
AA Dam 383 – Merilup North - Reserve 18254 – Vested to Water & Rivers Commission







AA Dam 401 – Tarin Rock - Reserve 20012 – Vested to Water Corporation







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Tarin Rock Siding
AA Dam Number	401
Reserve Number	20012
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Dumbleyung
AA Dam Number	570
Reserve Number	11230
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

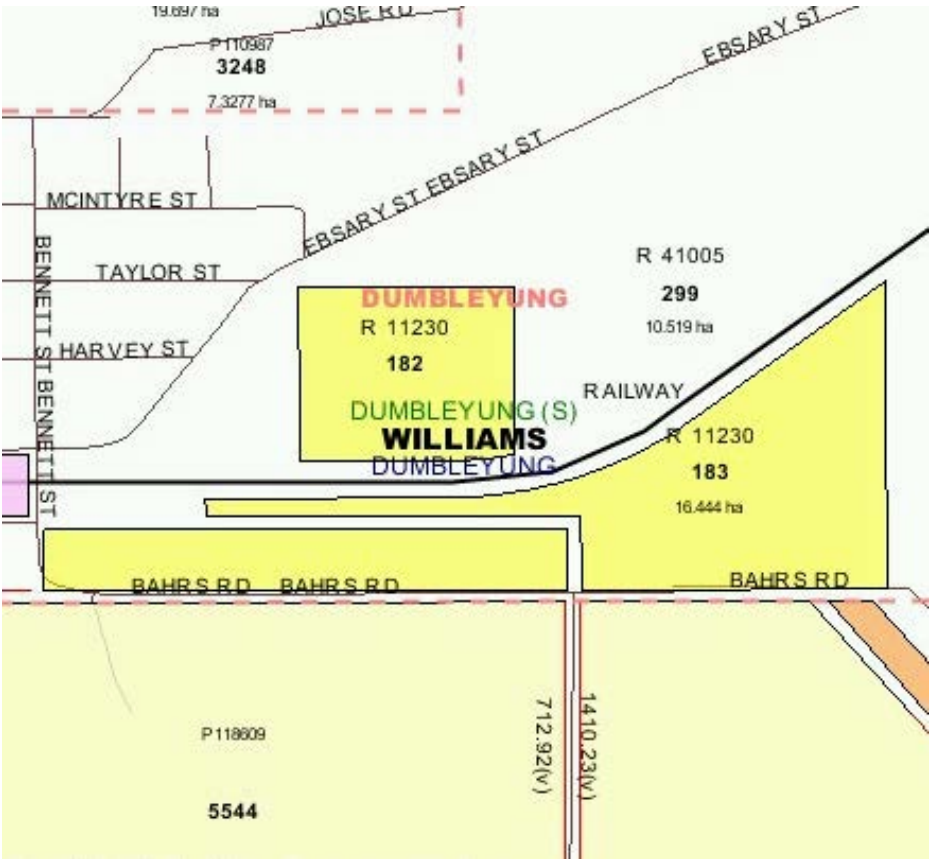
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 570 – Dumbleyung - Reserve 11230 – Vested to Water Corporation









**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Moulyinning Dam
AA Dam Number	573
Reserve Number	9447
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 573 –Moulyinning - Reserve 9447 – Responsible Agency Water Corporation







**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Duggan Railway
AA Dam Number	2016
Reserve Number	16776
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

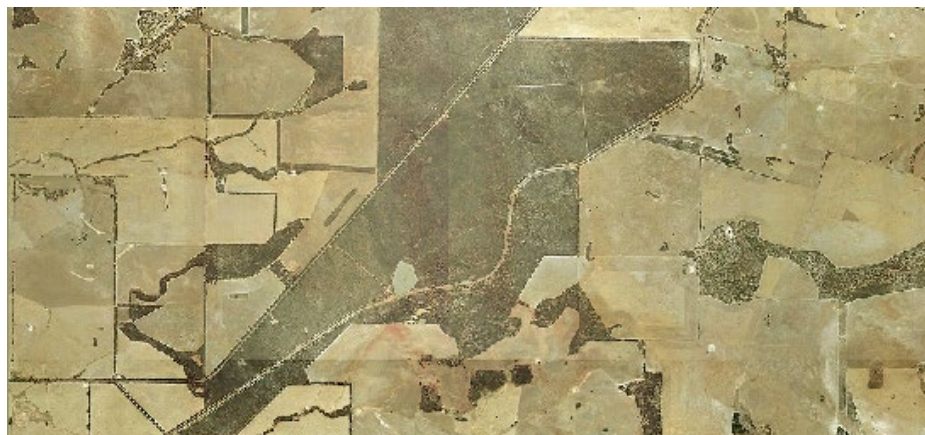
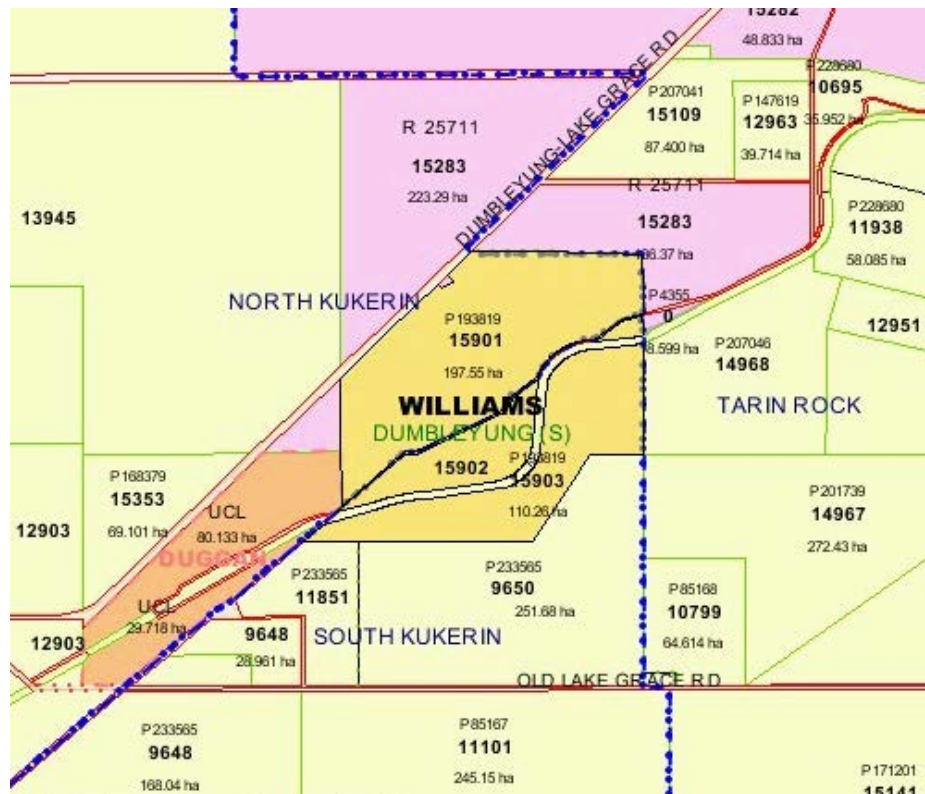
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 2016 – Duggan Railway - Reserve 16776 – Vested to Water & Rivers











**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	<u>Horse Bone ?</u>
AA Dam Number	2020
Reserve Number	9102
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

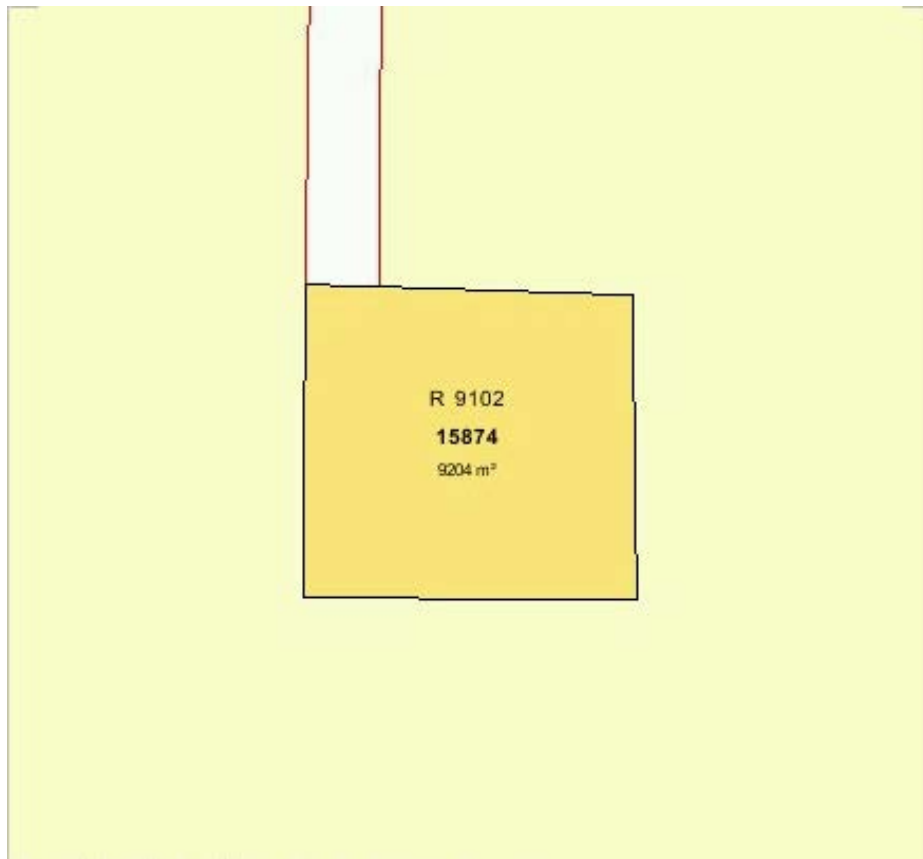
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 2020 – Reserve 9102 – Vested to Water & Rivers Commission





**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	Mauser
AA Dam Number	2021
Reserve Number	12219
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 2021 – Reserve 12219 – Responsibly Agency Water Corporation





**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

AA Dam Particulars	
Dam Name	<u>Tarin Rock</u>
AA Dam Number	2022
Reserve Number	15435
Shire	Dumbleyung
WC Dam Category Classification	
Land Tenure	Reserve
Date of Comment Form Request	December 2004

Commenting Agency Details	
External Stakeholder	
Contact Officer	
Name	
Title	
Telephone No.	
e-mail address	
Postal address	

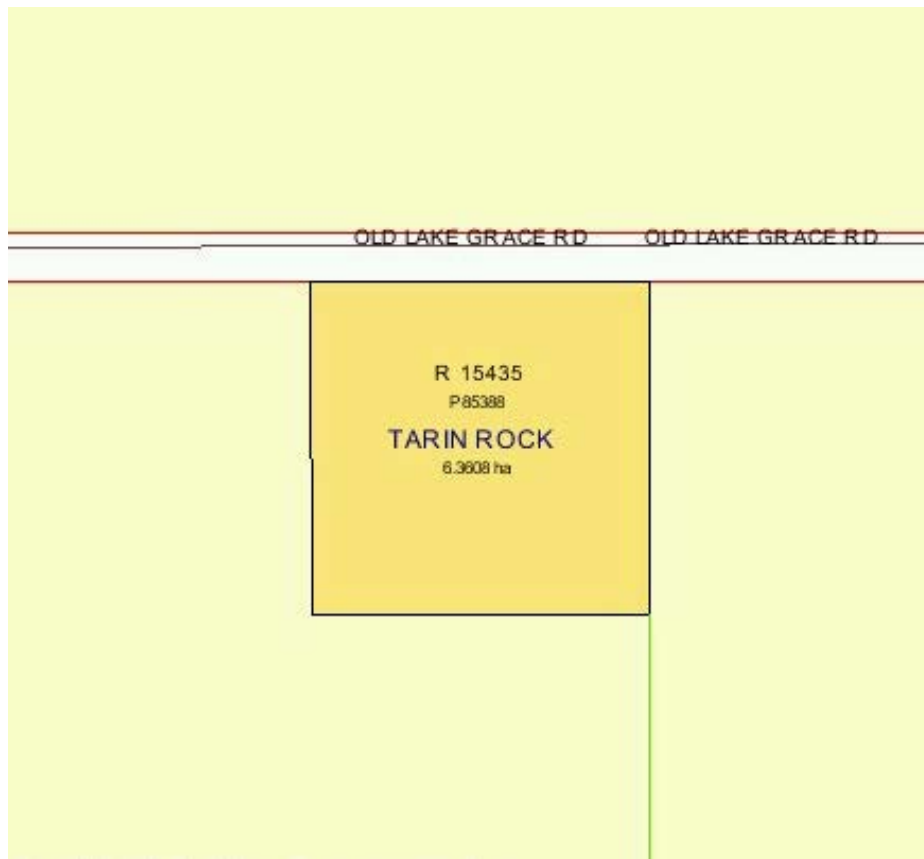
Comments	
1. Is this AA Dam part of a water scheme?	
2. Is this AA Dam required by your Agency for a water supply? (e.g. Off farm community supply) or (required 'as is' or could be developed)	
3. Is your Agency only interested in the land parcel?	

**Agricultural Area (AA) Dams
External Stakeholder Comments Form**

Comments	
4. Does your Agency have any decommissioning requirements?	
5. If your Agency does not require the AA Dam are there any management plan requirements?	
6. Is your Agency aware of any beneficial uses/users of the dam and/or reserve?	
7. Does your Agency have any further comments?	

Endorsement	
Commenting Officer Signature	
Date	

AA Dam 2022 – - Reserve 15435 – Vested to Water & Rivers Commission







AA Dams - Recommendation Outcomes

March 2004

Shire of Dumbleyung										
Dam No	Dam Name	Reserve No	Location Description	Town	Shire	Owner Previous	WC Land Asset No.	Class. (WC)	ASSET COMMENTS	INVESTIGATION COMMENTS
175	Dongolocking	26005		Dongolocking	Dumbleyung	CALM				
191	Tarin Rock	25711			Dumbleyung	CALM				
195	Cooarring	10930		Dumbleyung	Dumbleyung	CALM				
268	Wishbone Railway	13891	Williams Loc 15998, 16001	Moulyinning	Dumbleyung	DPI				water supply
197	Raynors Warren Road	9918	Williams Loc 15712	Nairibin	Dumbleyung	Shire				parklands
180	Kukerin No 1	23159	Kukerin Lot 172	Kukerin	Dumbleyung	WC	A7051			water supply
183	Kukerin N	16344	Williams Loc 11608	North Kukerin	Dumbleyung	WC	A6967	4		water
196	Dumbleyung Town	11230		Dumbleyung	Dumbleyung	WC	A2556	1	Pt of the Dumbleyung TWS Scheme.	
201	Pingarning	26757	Williams Loc 15413	Moulyinning	Dumbleyung	WC				water
202	Kukerin Siding	23159	Kukerin Town Lot 172, OP:1579	Kukerin	Dumbleyung	WC	A7051	1A	Old strategic, valuable carting point	water supply
287	Merilup (cancelled?)	15128	Williams Loc 9760	Kukerin	Dumbleyung	WC	A6935	4	previously consisted of reserves 15127 and 15128 and have been created into reserves 16022 and 16002	water
287	Merilup	16002	Williams Loc		Dumbleyung	WC			previously consisted of reserves 15127 and 15128 and have been created into reserves 16022 and 16002	water
375	Merilup	12314	Williams Loc	Merilup	Dumbleyung	WC				water
401	Tarin Rock Siding	20012	Williams Loc 11677, 11769 & 13136 RP119	Tarin Rock	Dumbleyung	WC	A3166	4		water
570	Dumbleyung	11230	Dumbleyung Lots 52, 54, 139, 182 & 183	Dumbleyung	Dumbleyung	WC	A2556			water supply
573	Moulyinning Dam	9447	Williams Loc	Moulyinning	Dumbleyung	WC		4		water
5021	Mauser	12219	Dumbleyung Lot 95	Dumbleyung	Dumbleyung	WC	A6896			water
177	Doradine Spring	16276	Williams Loc 11176	Dongolocking	Dumbleyung	WRC	A6961			water
203	Datatine Old	12645	Williams Loc 9496	Datatine	Dumbleyung	WRC	A6901	4		water & conservation of flora & fauna
204	Datatine New	12645	Williams Loc 9496	Datatine	Dumbleyung	WRC	A6901	4		water & conservation of flora & fauna
282	Bullock Hills	11442	Williams Loc 6665, Diag SP462	Bullock Hills	Dumbleyung	WRC	A6890	4		water supply purposes

AA Dams - Recommendation Outcomes

March 2004

Dam No	Dam Name	Reserve No	Location Description	Town	Shire	Owner Previous	WC Land Asset No.	Class. (WC)	ASSET COMMENTS	INVESTIGATION COMMENTS
339	Nippering	12665	Nippering Townsite	Nippering	Dumplebung	WRC	A6902	4		water supply
383	Merilup N	18254	Williams Loc 12712, 14050, D47093		Dumplebung	WRC	A7008	4		
2016	Duggan Railway	16776	Williams Loc 15901, 15902, 15903	Nth Kukerin / Tarin Rock	Dumplebung	WRC	A6980	2	Excellent carting point, good catchment bitumen	?