

Attachment 5.1A

Dawson Valley Water Management Area

Amending waterharvesting authorisations

1 Locations where waterharvesting authorisations will be amended

Waterharvesting licences will be amended on the Dawson River from the upstream limit of Glebe Weir to the Fitzroy River junction.

2 Details for amendment of waterharvesting licences

Amendments will be made to waterharvesting water licences as follows:

2.1 Location

The location from which water may be taken under a water licence will be amended to include a zone according to the position of the existing authorisation. Descriptions of the zones for the Dawson River are given in Attachment 2.1.

2.2 Operating rules

The terms and conditions about the arrangements for the taking of water stated on existing licences will be replaced by reference to the operating rules given in Attachment 5.1B.

Attachment 5.1B

Dawson Valley Water Management Area

Operating rules for water licences for waterharvesting with 15 and 30 cumec flow conditions

These operating rules apply to water licences for waterharvesting with 15 and 30 cumec flow conditions in the Dawson Valley Water Management Area, from the upstream limit of Glebe Weir to the Fitzroy River junction.

1 Water year

The water year is from 1 October to 30 September the following year.

2 Flow conditions under which water may be taken

The flow conditions stated on water licences for waterharvesting is the stream flow nominally required to pass downstream while water is being taken.

The chief executive will determine when the flow conditions exist and when water may be taken under arrangements given in Sections 3 and 4. A period of time during which water may be taken is referred to as an announced period.

3 Announced periods for taking water

The chief executive will notify water licence holders of the start and of the end of an announced period during which water may be taken.

Water may only be taken during announced periods, unless the chief executive has authorised an individual water licence holder to take water outside of an announced period.

In some circumstances a water licence holder may experience difficulty taking water during all or part of an announced period because of the characteristics of the flow event and the flow management location where the passing flow conditions are assessed under Section 4. Under these circumstances the chief executive may authorise a water licence holder to take water outside an announced period under alternative arrangements if the chief executive is satisfied that:

- No significant adverse impacts on other water users are expected; and
- The authorisation given does not exceed the announced period applying to other water licences in the same locality.

4 Determining announced periods for taking water

Subject to the requirements of the first post-winter flow management strategies in Section 5, for each management reach in Table 1 the chief executive will estimate the start and the end of a period during which the stream flow is estimated to exceed the flow conditions for each water licence group. The stream flow will be assessed at the flow management locations in Table 1.

The announced period is subject to the following conditions:

- The chief executive may delay the notification of the start of an announced period up to a maximum of 24 hours from the estimated time when the passing flow conditions exist, provided the notification of the end of the announced period is extended by a similar time;
- The typical duration of an announced period should not vary by more than 12 hours from the total estimated time that the passing flows exist. The chief executive may extend a subsequent announced period to adjust for any variations in excess of 12 hours; and
- The chief executive may use information about stream flow other than at the flow management locations in Table 1 to determine an announced period.

Table 1: Management reaches and flow management locations for water licences with 15 and 30 cumec flow conditions

Management reach	Management reach description	Flow management location
Zones: Dawson A, B.	Don River junction to Fitzroy River junction	Don River junction
Zones: Dawson C, D, E.	Mimosa Creek junction to Don River junction	Neville Hewitt Weir tailwater
Zones: Dawson F, G.	Effective upstream limit of Moura Weir to Mimosa Creek junction	Moura Weir tailwater
Zones: Dawson H, I.	Effective upstream limit of Theodore Weir to effective upstream limit of Moura Weir	Theodore Weir tailwater
Zones: Dawson J.	Orange Ck Weir to effective upstream limit of Theodore Weir	Isla Delusion Crossing
Zones: Dawson K.	Effective upstream limit of Gylanda Weir to Orange Ck Weir	Gylanda Weir tailwater
Zones: Dawson L, M.	Upstream limit of Glebe Weir to effective upstream limit of Gylanda Weir	Glebe Weir tailwater

5 Environmental flow management rules

5.1 First post-winter flow management strategy for waterharvesting upstream of the Mimosa Creek junction (Zones: Dawson F to Dawson M)

The following first post-winter flow management strategy applies to waterharvesting upstream of the Mimosa Creek junction.

The first post-winter flow management strategy commences at the earlier of:

- Activation of the upper Dawson sub-scheme first post-winter flow management strategy for the Dawson Valley Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 6 days of flow greater than 15 cumec passing any of the flow management locations in Table 1 that are located upstream of the Mimosa Creek junction since the commencement of the strategy; or
- Finalisation of the upper Dawson sub-scheme first post-winter flow management strategy for the Dawson Valley Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 30 cumec flow condition for all announced periods for waterharvesting.

5.2 First post-winter flow management strategy for waterharvesting downstream of the Mimosa Creek junction (Zones: Dawson A to Dawson E)

The following first post-winter flow management strategy applies to waterharvesting downstream of the Mimosa Creek junction.

The first post-winter flow management strategy commences at the earlier of:

- Activation of the lower Dawson sub-scheme first post-winter flow management strategy for the Dawson Valley Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 6 days of flow greater than 15 cumec passing any of the flow management locations in Table 1 that are located downstream of the Mimosa Creek junction since the commencement of the strategy; or
- Finalisation of the lower Dawson sub-scheme first post-winter flow management strategy for the Dawson Valley Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 30 cumec flow condition for all announced periods for waterharvesting.

6 Assessment of quantity of unsupplemented water taken

For the assessment of the quantity of unsupplemented water taken under a water licence:

- A water licence holder must advise the chief executive prior to taking unsupplemented water;
- A water licence holder must provide recordings of water taken to the chief executive;
- Only water taken during announced periods may be taken as unsupplemented water unless otherwise authorised by the chief executive under Section 3;
- The chief executive will advise the Resource Operations Licence holder for the Dawson Valley Water Supply Scheme of the meter readings and the approved quantities of unsupplemented water taken within 7 business days of the conclusion of announced periods for all management reaches in the Dawson Valley Water Management Area; and
- Any water taken that is not in accordance with these rules for unsupplemented water and taken from within the limits of the Dawson Valley Water Supply Scheme will be treated as supplemented water.

7 Seasonal water assignment rules

The assignment of the benefit of a water licence to another person for a water year for all or part of the water that may be taken under the water licence is referred to as a seasonal water assignment.

Seasonal water assignment of water licences in the Dawson Valley Water Management Area is not permitted.

8 Procedures

Details of procedures associated with the implementation of these operating rules may be obtained from the chief executive.

Attachment 5.2A

Nogoa Mackenzie Water Management Area

Details of conversions to water allocations

Water allocation number	Family name/ Company	Given names	Tenancy type	Tenancy comments	Share of water allocation	Location (AMTD km)	Purpose	Nominal volume (ML/water year)	Volumetric limit (ML/ water year)	Maximum rate (L/s)	Flow conditions	Water allocation group	Converting authorisation
203	DUNNE	JOHN JOSEPH	SP		1	Mackenzie A (311.2)	Agriculture	211	240	40	No flow conditions apply	Class 4C	15650U
205	DUNNE	JOHN JOSEPH	SP		1	Mackenzie A (311.7)	Agriculture	422	480	80	No flow conditions apply	Class 4C	18877U
228	BOYDEN	JOHN LINDSAY	SP		1	Mackenzie B	Agriculture	89	101	45	2592 ML / Day passing flow	Class 1A	104165
215	CRAGG	WILLIAM HENRY	SP		1	Mackenzie B	Agriculture	128	146	65	2592 ML / Day passing flow	Class 1A	19249F
791	CRAGG	WILLIAM HENRY	SP		1	Mackenzie B	Agriculture	495	562	250	2592 ML / Day passing flow	Class 1A	41325F
222	FERNIE	TONY JAMES	SP		1	Mackenzie B	Agriculture	227	258	115	2592 ML / Day passing flow	Class 1A	46371F
230	BAHNISCH	RONALD WALTER	TC		1/2	Mackenzie C	Agriculture	850	966	430	2592 ML / Day passing flow	Class 1A	104832
	BAHNISCH	LORNA LESLEY	TC		1/2								
235	BAUMAN	ROBERT ARTHUR BEAK	TC		1/2	Mackenzie C	Agriculture	495	562	250	2592 ML / Day passing flow	Class 1A	40206F
	BAUMAN	ALEXANDER BEAK	TC		1/2								
789	BAUMAN	ROBERT ARTHUR BEAK	TC		1/2	Mackenzie C	Agriculture	1938	2335	1175	4320 ML / Day passing flow	Class 1B	57484F
	BAUMAN	ALEXANDER BEAK	TC		1/2								
869	MCAMLEY	GRAHAM EDWARD	TC		1/3	Mackenzie C	Agriculture	227	258	115	2592 ML / Day passing flow	Class 1A	51577F
	MCCAMLEY	SHIRLEY CLARICE	TC		1/3								
	MCCAMLEY	RUSSELL EDWARD GRAHAM	TC		1/3								

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Water allocation number	Family name/ Company	Given names	Tenancy type	Tenancy comments	Share of water allocation	Location (AMTD km)	Purpose	Nominal volume (ML/water year)	Volumetric limit (ML/ water year)	Maximum rate (L/s)	Flow conditions	Water allocation group	Converting authorisation
242	MCCAMLEY	GRAHAM EDWARD	SP		1	Mackenzie C	Agriculture	692	786	350	2592 ML / Day passing flow	Class 1A	173701
773	MCCAMLEY	GRAHAM EDWARD	SP		1	Mackenzie C	Agriculture	2744	3118	1388	2592 ML / Day passing flow	Class 1A	57473WF
880	MCCAMLEY	GRAHAM EDWARD	TC		1/3	Mackenzie C	Agriculture	227	258	115	2592 ML / Day passing flow	Class 1A	38805F
	MCCAMLEY	SHIRLEY CLARICE	TC	1/3									
	MCCAMLEY	RUSSELL EDWARD GRAHAM	TC	1/3									
238	OLIVE	MAUREEN MARGARET	SP		1	Mackenzie C	Agriculture	128	146	65	2592 ML / Day passing flow	Class 1A	103509
271	ASHTON	ROY DUDLEY	TC		1/2	Mackenzie D	Agriculture	366	416	185	2592 ML / Day passing flow	Class 1A	104990
	ASHTON	ELLEN GWENDOLINE	TC	1/2									
254	BAGGETT	HENRY HARRIS	TC		1/2	Mackenzie D	Agriculture	593	674	300	2592 ML / Day passing flow	Class 1A	104991
	BAGGETT	DOROTHY SUSAN	TC	1/2									
269	BAGGETT	HENRY HARRIS	TC		1/6	Mackenzie D	Agriculture	2174	2471	1100	2592 ML / Day passing flow	Class 1A	34432U
	BAGGETT	DOROTHY SUSAN	TC	1/6									
	DRESICK	MICHAEL LEE	TC	1/6									
	DRESICK	JANICE CHESTENE	TC	1/6									
	BROOKS	PAUL DAVID	TC	1/6									
	BROOKS	JUDY FAYE	TC	1/6									
786	BAGGETT	HENRY HARRIS	TC		1/2	Mackenzie D	Agriculture	593	674	300	2592 ML / Day passing flow	Class 1A	46374F
	BAGGETT	DOROTHY SUSAN	TC	1/2									

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265	DRESICK	MICHAEL LEE	TC		1/4	Mackenzie D	Agriculture	593	674	300	2592 ML / Day passing flow	Class 1A	103928
	DRESICK	JANICE CHESTENE	TC		1/4								
	BROOKS	PAUL DAVID	TC		1/4								
	BROOKS	JUDY FAYE	TC		1/4								
313	DRESICK	MICHAEL LEE	TC		1/4	Mackenzie D	Agriculture	2174	2471	1100	2592 ML / Day passing flow	Class 1A	41375F
	DRESICK	JANICE CHESTENE	TC		1/4								
	BROOKS	PAUL DAVID	TC		1/4								
	BROOKS	JUDY FAYE	TC		1/4								
243	LAKE MARY IRRIGATORS PTY LTD		SP		1	Mackenzie D	Agriculture	2174	2471	1100	2592 ML / Day passing flow	Class 1A	41263F
245	NEEDHAM	BRIAN ALFRED	SP		1	Mackenzie D	Agriculture	495	562	250	2592 ML / Day passing flow	Class 1A	41177F
273	ASHTON	DOUGLAS HENRY	TC		1/2	Mackenzie E	Agriculture	890	1011	450	2592 ML / Day passing flow	Class 1A	51614F
	ASHTON	MARGARET PERONNE	TC		1/2								
275	CORLIS	PHILLIP LEIGH	TC		1/2	Mackenzie E	Agriculture	33	38	17	2592 ML / Day passing flow	Class 1A	104993
	CORLIS	SHIRLEY ANNE	TC		1/2								
278	BURGESS	DOUGLAS	TC		1/2	Mackenzie F	Agriculture	347	475	250	2592 ML / Day passing flow	Class 2A	103515
	BURGESS	EVELYN RUTH	TC		1/2								
280	MAGUIRE	JAMES ALFRED	TC		1/2	Mackenzie F	Agriculture	91	124	65	2592 ML / Day passing flow	Class 2A	103854
	MAGUIRE	GLENDA BESS	TC		1/2								
286	BAMBLING	PETER JOHN JODRELL	TC		1/2	Mackenzie G	Agriculture	553	757	398	2592 ML / Day passing flow	Class 2A	104994
	BAMBLING	ESTELLE SUSAN	TC		1/2								

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Water allocation number	Family name/ Company	Given names	Tenancy type	Tenancy comments	Share of water allocation	Location (AMTD km)	Purpose	Nominal volume (ML/water year)	Volumetric limit (ML/ water year)	Maximum rate (L/s)	Flow conditions	Water allocation group	Converting authorisation
862	MAGUIRE	JAMES ALFRED	TC		1/2	Mackenzie G	Agriculture	160	219	115	2592 ML / Day passing flow	Class 2A	48344F
	MAGUIRE	GLENDIA BESS	TC		1/2								
288	MAGUIRE	WAYNE JOHN	TC		1/2	Mackenzie G	Agriculture	125	171	90	2592 ML / Day passing flow	Class 2A	103510
	MAGUIRE	MARCIA FAYE	TC		1/2								
299	DAVISON	IAN BARNES	SP		1	Mackenzie H	Agriculture	902	1236	650	2592 ML / Day passing flow	Class 2A	104986
291	MAGUIRE	MARCIA FAYE	TC		1/2	Mackenzie H	Agriculture	553	757	398	2592 ML / Day passing flow	Class 2A	104985
	MAGUIRE	WAYNE JOHN	TC		1/2								
297	SIBSON	KELVIN ROY	TC		1/9	Mackenzie H	Agriculture	257	352	185	2592 ML / Day passing flow	Class 2A	38974F
	SIBSON	LYNETTE ESTELLE	TC		1/9								
	PHILIPSON	NEVILLE JOHN	TC		1/9								
	PHILIPSON	LEONE GALE	TC		1/9								
	WIGHT	ROBERT LYNTON	TC		1/9								
	WIGHT	RACHEL GAY	TC		1/9								
	WIGHT	CRAIG LYNTON	TC		1/9								
	WIGHT	MARK LYNTON	TC		1/9								
	SIBSON	KELVIN ROY	TTE	TRUSTEE FOR DALE KELVIN SIBSON	1/9								
309	ACTON	ALAN JOHN	TC		1/2	Mackenzie I	Agriculture	160	219	115	2592 ML / Day passing flow	Class 2A	104029
	ACTON	JENNIFER CARMEL	TC		1/2								

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301	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	416	570	300	2592 ML / Day passing flow	Class 2A	52675F
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								
310	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	1622	2350	1600	4320 ML / Day passing flow	Class 2B	57830F
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								
323	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	416	570	300	2592 ML / Day passing flow	Class 2A	105195
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								

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327	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	1622	2350	1600	4320 ML / Day passing flow	Class 2B	57831F
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								
329	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	1622	2350	1600	4320 ML / Day passing flow	Class 2B	57832WF
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								
333	CHAPMAN	JOHN FREDERICK	TC		1/6	Mackenzie I	Agriculture	1622	2350	1600	4320 ML / Day passing flow	Class 2B	57833WF
	CHAPMAN	GLADYS FAY	TC		1/6								
	CHAPMAN	SANDRA HELEN	TC		1/6								
	CHAPMAN	DAVID JOHN	TC		1/6								
	CHAPMAN	BRUCE DOUGLAS	TC		1/6								
	CHAPMAN	RODNEY MARK	TC		1/6								
312	GALLOWAY	BARRY ALLEN	SP		1	Mackenzie I	Agriculture	388	532	280	2592 ML / Day passing flow	Class 2A	103513
335	GALLOWAY	BARRY ALLEN	SP		1	Mackenzie I	Agriculture	485	665	350	2592 ML / Day passing flow	Class 2A	52660F

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314	EMERALD RURAL TRAINING SCHOOL BOARD		SP		1	Mackenzie J	Agriculture	347	475	250	2592 ML / Day passing flow	Class 2A	40135F
316	LEWIS	ROGER MAURICE	TC		1/2	Mackenzie J	Agriculture	1115	1616	1100	4320 ML / Day passing flow	Class 2B	57874F
	LEWIS	LINDY ANN	TC	1/2									
850	MORAWITZ	CARL HUNT	TC		1/2	Mackenzie K	Agriculture	1526	2091	1100	2592 ML / Day passing flow	Class 2A	171475
	MORAWITZ	ROBYN LORRAINE	TC	1/2									
362	VANCARD PTY LTD ACN 010660867		TTE	TRUSTEE UNDER NOMINATION OF TRUSTEES NO C693822B	1	Mackenzie K	Agriculture	902	1236	650	2592 ML / Day passing flow	Class 2A	33546F
382	VANCARD PTY LTD ACN 010660867		TTE	TRUSTEE UNDER NOMINATION OF TRUSTEES NO C693822B	1	Mackenzie K	Agriculture	1388	1901	1000	2592 ML / Day passing flow	Class 2A	52700F
848	VANCARD PTY LTD ACN 010660867		TTE	TRUSTEE UNDER NOMINATION OF TRUSTEES NO C693822B	1	Mackenzie K	Agriculture	902	1236	650	2592 ML / Day passing flow	Class 2A	33545F
337	WILSON	CHARLES PETER ORME	TC		1/3	Mackenzie K	Agriculture	257	352	185	2592 ML / Day passing flow	Class 2A	57730WF
	WILSON	KAYE MARGARET	TC	1/3									
	CURRIMUNDI PTY LTD		TTE	AS TRUSTEE UNDER NOMINATION OF TRUSTEES C693819K	1/3								
339	WILSON	CHARLES PETER ORME	TC		1/3	Mackenzie K	Agriculture	1172	1699	1157	4320 ML / Day passing flow	Class 2B	57861F
	WILSON	KAYE MARGARET	TC	1/3									
	CURRIMUNDI PTY LTD		TTE	AS TRUSTEE UNDER NOMINATION OF TRUSTEES C693819K	1/3								

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452	WILSON	CHARLES PETER ORME	TC	AS TRUSTEE UNDER NOMINATION OF TRUSTEES C693819K	1/3	Mackenzie K	Agriculture	416	570	300	2592 ML / Day passing flow	Class 2A	104987
	WILSON	KAYE MARGARET	TC		1/3								
	CURRIMUNDI PTY LTD		TTE		1/3								
859	WILSON	CHARLES PETER ORME	TC	AS TRUSTEE UNDER NOMINATION OF TRUSTEES C693819K	1/3	Mackenzie K	Agriculture	1216	1763	1200	4320 ML / Day passing flow	Class 2B	057828F
	WILSON	KAYE MARGARET	TC		1/3								
	CURRIMUNDI PTY LTD		TTE		1/3								
860	WILSON	CHARLES PETER ORME	TC	AS TRUSTEE UNDER NOMINATION OF TRUSTEES C693819K	1/3	Mackenzie K	Agriculture	416	570	300	2592 ML / Day passing flow	Class 2A	46115F
	WILSON	KAYE MARGARET	TC		1/3								
	CURRIMUNDI PTY LTD		TTE		1/3								
842	BRAYLAND PTY LTD		SP		1	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	104992
867	BRAYLAND PTY LTD		SP		1	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	45331F
462	BURNETT	IAN WILLIAM	TC		1/2	Mackenzie L	Agriculture	229	353	340	2592 ML / Day passing flow	Class 3A	104988
	BURNETT	RHONDA LYNETTE	TC		1/2								
836	BURNETT	IAN WILLIAM	TC		1/2	Mackenzie L	Agriculture	300	461	445	2592 ML / Day passing flow	Class 3A	57726WF
	BURNETT	RHONDA LYNETTE	TC		1/2								
463	ENSHAM RESOURCES PTY LTD		SP		1	Mackenzie L	Agriculture	77	119	115	2592 ML / Day passing flow	Class 3A	33033F
846	ENSHAM RESOURCES PTY LTD		SP		1	Mackenzie L	Agriculture	202	311	300	2592 ML / Day passing flow	Class 3A	46297F
840	LITTLE	GARRY WILLIAM	TC		1/2	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	103787
	LITTLE	JILLIAN ELIZABETH	TC		1/2								

Note that Attachment 5.2A shows details of relevant authorisations supplied in the Nogoa Mackenzie Water Management Area as at 13 November 2003. Any changes that occur after 13 November 2003, for example, transfers of a listed authorisation to another person, or from amalgamations or subdivisions of listed authorisations, will be dealt with through standard procedures established to register changes to the water allocation register

Water allocation number	Family name/ Company	Given names	Tenancy type	Tenancy comments	Share of water allocation	Location (AMTD km)	Purpose	Nominal volume (ML/water year)	Volumetric limit (ML/ water year)	Maximum rate (L/s)	Flow conditions	Water allocation group	Converting authorisation
834	LOCHARBOR HOLDINGS PTY LTD		TTE	TRUSTEES UNDER NOMINATION OF TRUSTEES NO C507566	1	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	104995
443	MONTGOMERY	DAVID HUGH	TC		1/3	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	172268
	DUNAVANT	WILLIAM BUCHANAN	TC		1/3								
	MORLEY	RONALD	TC		1/3								
838	MONTGOMERY	DAVID HUGH	TC		1/3	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	105072
	DUNAVANT	WILLIAM BUCHANAN	TC		1/3								
	MORLEY	RONALD	TC		1/3								
866	MONTGOMERY	DAVID HUGH	TC		1/3	Mackenzie L	Agriculture	202	311	300	2592 ML / Day passing flow	Class 3A	105071
	DUNAVANT	WILLIAM BUCHANAN	TC		1/3								
	MORLEY	RONALD	TC		1/3								
831	RAY	TERENCE JOHN	TC		1/4	Mackenzie L	Agriculture	741	1140	1100	2592 ML / Day passing flow	Class 3A	171479
	RAY	ALISON	TC		1/4								
	QUINN	GRAHAM DOUGLAS	TC		1/4								
	QUINN	PAMELA ANN	TC		1/4								
844	WALSH	VALDEMAR JOHN	SP		1	Mackenzie L	Agriculture	202	311	300	2592 ML / Day passing flow	Class 3A	103720

SP: Sole Proprietor
TC: Tenants in Common
TTE: Trustee

Note that Attachment 5.2A shows details of relevant authorisations supplied in the Nogoia Mackenzie Water Management Area as at **13 November 2003**. Any changes that occur after 13 November 2003, for example, transfers of a listed authorisation to another person, or from amalgamations or subdivisions of listed authorisations, will be dealt with through standard procedures established to register changes to the water allocation register

Attachment 5.2B

Nogoa Mackenzie Water Management Area

Rules for conversion of existing waterharvesting authorisations to water allocations

1 Locations where existing waterharvesting authorisations are being converted to water allocations

Existing waterharvesting authorisations are being converted to water allocations on:

- The Nogoa River from the Theresa Creek junction to the Comet River junction;
- The Mackenzie River from the Comet River junction to the Dawson River junction; and
- Sections of tributaries of the Nogoa and Mackenzie rivers for which access to flows in the above river sections has been defined.

2 Rules for conversion of existing authorisations to water allocations

The following rules apply for the conversion of existing waterharvesting authorisations to water allocations to establish the details required for the registration of unsupplemented water allocations.

2.1 Location

The location from which water may be taken under a water allocation is specified as a zone according to the position of the existing authorisation. Descriptions of the zones for the Nogoa and Mackenzie rivers are given in Attachment 2.2.

2.2 Purpose

The purpose for which water may be taken under a water allocation is specified as either 'agriculture' or 'any'. 'Agriculture' is the nominated purpose for those existing authorisations that are primarily used for agricultural purposes. 'Any' is the nominated purpose for all other uses of water.

2.3 Maximum rate

With the exception of those authorisations in Table 2 for which the chief executive has previously stated a rate on the existing authorisation as a consequence of the requirements of the Water Resource Plan (WRP), the maximum rate (in litres per second) for taking water is the greater of:

- a) For an authorisation that states a maximum rate, the existing authorised rate; or
- b) For an authorisation that states a pump size, a rate decided by the chief executive using information from Table 1; or

- c) A rate determined by the chief executive based on consideration of a submission on the draft Resource Operations Plan (ROP) about this rate. In consideration of a submission the chief executive will have regard to the existing diversion capacity as at 1 June 2002, and consistency with other authorisations in the same locality. The existing diversion capacity for pumps will be considered at stream flow conditions within 2 metres above the flow conditions for the authorisation.

Table 1: Pump sizes and rates

Nominal pump size (mm)	Rate (L/s)		Nominal pump size (mm)	Rate (L/s)
32	7		200	185
40	12		250	250
50	17		300	300
65	30		350	350
80	45		400	430
100	65		500	650
125	90		600–660	1,100
150	115			

(Note: Multiply litres per second by 0.0864 to convert to megalitres per day)

Table 2: Authorisations for which maximum rates previously established

Authorisation No.	Basis for determining the maximum rate for taking water
51614F	This licence originally authorised a 300 mm submersible pump, which had an operational pumping rate of 450 L/s. An additional 610 mm pump was authorised on the licence on the basis that the licensee agree to the pump rate not exceeding 450 L/s, and only one pump operating at any time.

2.4 Flow conditions

The flow conditions under which water may be taken are specified as a rate of passing flow.

The flow conditions are translated from the flow requirements specified on existing waterharvesting authorisations as follows:

- For an existing authorisation with flow conditions of equal to or less than 30 cumec, the flow condition is '2,592 ML/day passing flow'; and
- For an existing authorisation with flow conditions greater than 30 cumec up to 50 cumec, the flow condition is '4,320 ML/day passing flow'.

2.5 Volume

The volume for a water allocation comprises two elements – a volumetric limit and a nominal volume.

2.5.1 Volumetric limit

The volumetric limit (in megalitres) for conversion of a waterharvesting authorisation is calculated by multiplying the maximum rate for taking water (expressed in megalitres per day) determined in Section 2.3 by the 30th percentile water allocation security objective value (expressed in days) given in Table 3.

Table 3: 30th percentile water allocation security objectives and nominal volume conversion factor

Location for water allocation	Zone	Flow conditions	Water allocation security objective in 30% years	Nominal volume conversion factor
Mackenzie River from the Isaac Mackenzie waterharvesting upstream limit to the Dawson River junction	Mackenzie A Mackenzie B Mackenzie C	2,592 ML/day passing flow	26 days	0.88
	Mackenzie D Mackenzie E	4,320 ML/day passing flow	23 days	0.83
Nogoa and Mackenzie rivers from the Comet Mackenzie waterharvesting upstream limit to the Isaac Mackenzie waterharvesting upstream limit	Mackenzie F Mackenzie G Mackenzie H	2,592 ML/day passing flow	22 days	0.73
	Mackenzie I Mackenzie J Mackenzie K	4,320 ML/day passing flow	17 days	0.69
Nogoa River from the Theresa Creek junction to the Comet Mackenzie waterharvesting upstream limit	Mackenzie L	2,592 ML/day passing flow	12 days	0.65

2.5.2 Nominal volume

The nominal volume for a water allocation is determined by sharing the long-term average amount of water expected to be taken by existing authorisations in the relevant water allocation security group.

The nominal volume (in megalitres) for conversion of a waterharvesting authorisation is calculated by multiplying the volumetric limit (in megalitres) determined under Section 2.5.1 by the nominal volume conversion factor given in Table 3.

2.6 Water allocation groups

The water allocation group for a water allocation is specified in Table 4. The water allocation group represents a water allocation security objective group specified in the Water Resource Plan (WRP).

Table 4: Water allocation groups

Location for water allocation	Zone	Water allocation group	Flow conditions for water allocations
Mackenzie River from the Isaac Mackenzie waterharvesting upstream limit to the Dawson River junction	Mackenzie A Mackenzie B Mackenzie C Mackenzie D Mackenzie E	Class 1A	2,592 ML/day passing flow
		Class 1B	4,320 ML/day passing flow
Nogoa and Mackenzie rivers from the Comet Mackenzie waterharvesting upstream limit to the Isaac Mackenzie waterharvesting upstream limit	Mackenzie F Mackenzie G Mackenzie H Mackenzie I Mackenzie J Mackenzie K	Class 2A	2,592 ML/day passing flow
		Class 2B	4,320 ML/day passing flow
Nogoa River from the Theresa Creek junction to the Comet Mackenzie waterharvesting upstream limit	Mackenzie L	Class 3A	2,592 ML/day passing flow

3 Water allocation security objectives

The water allocation security objectives are specified in the WRP.

Attachment 5.2C

Nogoa Mackenzie Water Management Area

Rules for conversion of existing area irrigated authorisations to water allocations

1 Locations where existing area-irrigated authorisations are being converted to water allocations

Existing area irrigated authorisations are being converted to water allocations on the Mackenzie River from the Springton Creek junction to the Dawson River junction.

2 Rules for conversion of existing authorisations to water allocations

The following rules apply for the conversion of existing area irrigated authorisations to water allocations to establish the details required for the registration of unsupplemented water allocations.

2.1 Location

The location from which water may be taken under a water allocation is specified as a zone according to the position of the existing authorisation. Descriptions of the zones for the Nogoa and Mackenzie rivers are given in Attachment 2.2.

2.2 Purpose

The purpose for which water may be taken under a water allocation is specified as either 'agriculture' or 'any'. 'Agriculture' is the nominated purpose for those existing authorisations that are primarily used for agricultural purposes. 'Any' is the nominated purpose for all other uses of water.

2.3 Maximum rate

The maximum rate (in litres per second) for taking water is the greater of:

- a) For an authorisation that states a maximum rate, the existing authorised rate; or
- b) A rate of 1 litre per second per hectare for the area stated on the existing authorisation; or
- c) A rate determined by the chief executive based on consideration of a submission on the draft Resource Operations Plan (ROP) about this rate. In consideration of a submission the chief executive will have regard to the existing diversion capacity as at 1 June 2002, and consistency with other authorisations in the same locality.

2.4 Volume

The volume for a water allocation comprises two elements – a volumetric limit and a nominal volume.

2.4.1 Volumetric limit

The volumetric limit (in megalitres) for conversion of an area-irrigated authorisation is calculated by multiplying the area (in hectares) stated on the existing authorisation by 6.

2.4.2 Nominal volume

The nominal volume for a water allocation is determined by sharing the long-term average annual amount of water expected to be taken by existing authorisations in the relevant water allocation security group.

The nominal volume (in megalitres) for conversion of an area-irrigated authorisation is calculated by multiplying the volumetric limit (in megalitres) determined under Section 2.4.1 by the nominal volume conversion factor given in Table 1.

Table 1: Nominal volume conversion factor

Location for water allocation	Zone	Flow conditions	Nominal volume conversion factor
Mackenzie River from the Springton Creek junction to the Dawson River junction	Mackenzie A	No flow condition, and 9 ML/day passing flow	0.88

2.5 Flow conditions

The flow conditions under which water may be taken are specified as a rate of passing flow translated from the flow requirements specified on the existing authorisation.

2.6 Water allocation groups

The water allocation group for a water allocation is specified in Table 2. The water allocation group represents a water allocation security objective group specified in the Water Resource Plan (WRP).

Table 2: Water allocation group

Location for water allocation	Zone	Water allocation group	Flow conditions for water allocations
Mackenzie River from the Springton Creek junction to the Dawson River junction	Mackenzie A	Class 4C	No flow condition, and 9 ML/day passing flow

3 Water allocation security objectives

The water allocation security objectives are specified in the WRP.

Attachment 5.2D

Nogoa Mackenzie Water Management Area

Amending existing waterharvesting authorisations

Waterharvesting authorisations on the Nogoa River from the Fairbairn Dam pond downstream to the Theresa Creek junction remain as water licences under this Resource Operations Plan (ROP). These licences are not being converted to water allocations because the performance of waterharvesting in this reach does not have a specified water allocation security objective in the Water Resource Plan. Waterharvesting in this reach is permitted only when Fairbairn Dam overflows at greater than 30 cumec, which occurs in fewer than 30 per cent of years.

These waterharvesting licences will be amended for consistency with the operating rules given in Attachment 5.2F and to specify a volumetric limit and a maximum rate for taking water.

1 Locations where existing waterharvesting authorisations will be amended

Existing waterharvesting licences will be amended on the Nogoa River from the upstream limit of Fairbairn Dam to the Theresa Creek junction (Zones Mackenzie N and M).

2 Details for amendment of existing authorisations

Amendments will be made to existing water licences as follows:

2.1 Location

The location from which water may be taken under a water licence will be amended to a zone according to the position of the existing authorisation. Descriptions of the zones for the Nogoa and Mackenzie rivers are given in Attachment 2.2.

2.2 Maximum rate

A maximum rate (in litres per second) for taking water under a water licence will be stated or amended if stated on the existing authorisation. The maximum rate will be the greater of:

- a) For an authorisation that states a maximum rate, the existing authorised rate; or
- b) For an authorisation that states a pump size, a rate decided by the chief executive using information from Table 1; or
- c) A rate determined by the chief executive for an authorisation having regard to the existing diversion capacity as at 1 June 2002, and consistency with other authorisations in the same locality. The existing diversion capacity for pumps will be considered at stream flow conditions within 2 metres above the flow conditions for the authorisation.

Table 1: Pump sizes and rates

Nominal pump size (mm)	Rate (L/s)		Nominal pump size (mm)	Rate (L/s)
32	7		200	185
40	12		250	250
50	17		300	300
65	30		350	350
80	45		400	430
100	65		500	650
125	90		600–660	1,100
150	115			
<i>(Note: Multiply litres per second by 0.0864 to convert to megalitres per day)</i>				

2.3 Volume

The volume for a water licence will state a volumetric limit.

The volumetric limit (in megalitres) is calculated by multiplying the maximum rate for taking water (expressed in megalitres per day) determined in Section 2.2 by 6 days. The performance indicators show that volume would occur in less than the 30th percentile wettest year based on the simulated diversion estimated to occur in this locality.

2.4 Operating rules

The flow conditions for all existing waterharvesting authorisations will be respecified as ‘2,592 ML/day passing flow’ for consistency with the operating rules in the ROP. 2,592 ML/day is equal to 30 cumec, the value stated on existing authorisations.

The terms and conditions about the arrangements for the taking of water stated on existing licences will be replaced by reference to the operating rules given in Attachment 5.2F.

Attachment 5.2E

Nogoa Mackenzie Water Management Area

Total rates and volumes for water allocations

Table 1: Total rates for taking water and volumes for water allocations with 2,592 ML/day passing flow conditions at Resource Operations Plan approval

Zone	For water allocations at Resource Operations Plan approval		
	Total rates for taking water (L/s)	Total volumes	
		Volumetric limit (ML)	Nominal volume (ML)
Mackenzie B	475	1,067	939
Mackenzie C	2,713	6,094	5,363
Mackenzie D	4,635	10,413	9,162
Mackenzie E	467	1,049	923
Mackenzie F	315	599	438
Mackenzie G	603	1,147	838
Mackenzie H	1,233	2,345	1,712
Mackenzie I	1,345	2,556	1,865
Mackenzie J	250	475	347
Mackenzie K	4,185	7,956	5,807
Mackenzie L	9,500	9,846	6,399
Total	25,721	43,547	33,793

Table 2: Total rates for taking water and volumes for water allocations with 4,320 ML/day passing flow conditions at Resource Operations Plan approval

Zone	For water allocations at Resource Operations Plan approval		
	Total rates for taking water (L/s)	Total volumes	
		Volumetric limit (ML)	Nominal volume (ML)
Mackenzie C	1,175	2,335	1,938
Mackenzie I	6,400	9,400	6,488
Mackenzie J	1,100	1,616	1,115
Mackenzie K	2,357	3,462	2,388
Total	11,032	16,813	11,929

Table 3: Total rates for taking water and volumes for water allocations with no passing flow conditions at Resource Operations Plan approval

Zone	For water allocations at Resource Operations Plan approval		
	Total rates for taking water (L/s)	Total volumes	
		Volumetric limit (ML)	Nominal volume (ML)
Mackenzie A	120	720	633

Attachment 5.2F

Nogoa Mackenzie Water Management Area Operating rules for water allocations and water licences with 2,592 and 4,320 ML/day passing flow conditions

These operating rules apply to water allocations and water licences with 2,592 and 4,320 ML/day passing flow conditions in the Nogoa Mackenzie Water Management Area, from the upstream limit of Fairbairn Dam to the Dawson River junction.

1 Water year

The water year is from 1 July to 30 June the following year.

2 Location from which water may be taken

The location from which water may be taken is described on each water allocation and water licence as a zone. Descriptions of zones for the Nogoa and Mackenzie rivers are given in Attachment 2.2.

3 Purpose for which water may be taken

The purpose for which water may be taken is stated on each water allocation or water licence. For the purpose of 'agriculture', water may be taken for agricultural purposes. For the purpose of 'any', water may be taken for any purpose.

4 Maximum volume of water taken

The maximum volume of water taken in any water year must not exceed the volumetric limit stated on a water allocation or water licence.

5 Maximum rate for taking water

The maximum rate that water may be taken is the maximum rate stated on a water allocation or water licence, averaged over any continuous 48-hour period.

Under the provisions of Chapter 8, the chief executive may change the specified continuous period having regard to water sharing between allocation holders and the objectives of the Water Resource Plan.

6 Flow conditions under which water may be taken

The passing flow conditions stated on a water allocation or water licence is the stream flow nominally required to pass downstream while water is being taken under the water allocation or water licence.

The chief executive will determine when the passing flow conditions exist and when water may be taken under arrangements given in Sections 7 and 8. A period of time during which

water may be taken is referred to as an announced period.

7 Announced periods for taking water

The chief executive will notify water allocation and water licence holders and the Resource Operations Licence (ROL) holder of the start and of the end of an announced period during which water may be taken.

Water may only be taken during announced periods, unless the chief executive has authorised an individual water allocation holder to take water outside of an announced period.

In some circumstances a water allocation holder may experience difficulty taking water during all or part of an announced period because of the characteristics of the flow event and the flow management location where the passing flow conditions are assessed under Section 8. Under these circumstances the chief executive may authorise a water allocation holder to take water outside an announced period under alternative arrangements if the chief executive is satisfied that:

- No significant adverse impacts on other water users are expected; and
- The authorisation given does not exceed the announced period applying to other water allocations in the same locality.

8 Determining announced periods for taking water

Subject to the requirements of the first post-winter flow management strategies in Section 9, for each management reach in Table 1 the chief executive will estimate the start and the end of a period during which the stream flow is estimated to exceed the passing flow conditions for each water allocation and water licence group. The stream flow will be assessed at the flow management locations in Table 1.

The announced period is subject to the following conditions:

- The chief executive may delay the notification of the start of an announced period for taking water up to a maximum of 24 hours from the estimated time when the passing flow conditions exist, provided the notification of the end of the announced period is extended by a similar time;
- The typical duration of an announced period should not vary by more than 12 hours from the total estimated time that the passing flows exist. The chief executive may extend a subsequent announced period to adjust for any variations in excess of 12 hours; and
- The chief executive may use information about stream flow other than at the flow measurement locations in Table 1 to determine an announced period.

Table 1: Management reaches and flow management locations for water allocations and water licences with 2,592 and 4,320 ML/day passing flow conditions

Management reach	Management reach description	Flow management location
Zones: Mackenzie A, B.	Coolmaringa Gauging Station to Dawson River junction	Coolmaringa Gauging Station
Zones: Mackenzie C, D, E.	Isaac Mackenzie waterharvesting upstream limit to Coolmaringa Gauging Station	Tartus Weir tailwater
Zones: Mackenzie F, G.	Effective upstream limit of Bingegang Weir to Isaac Mackenzie waterharvesting upstream limit	Bingegang Weir tailwater
Zones: Mackenzie H.	Bedford Weir to effective upstream limit of Bingegang Weir	Bedford Weir tailwater
Zones: Mackenzie I, J, K.	Comet Mackenzie waterharvesting upstream limit to Bedford Weir	Nogoa River and Comet River junction
Zones: Mackenzie L.	Theresa Ck junction to Comet Mackenzie waterharvesting upstream limit	Duckponds Gauging Station
Zones: Mackenzie M, N.	Upstream limit of Fairbairn Dam to Theresa Creek junction	Fairbairn Dam tailwater

9 Environmental flow management rules

9.1 First post-winter flow management strategy for waterharvesting for the Nogoa River upstream of the Comet Mackenzie waterharvesting upstream limit (Zones: Mackenzie L, M, N)

The following first post-winter flow management strategy applies to waterharvesting upstream of the Comet Mackenzie waterharvesting upstream limit (Zones: Mackenzie L, M, N).

The first post-winter flow management strategy commences at the earlier of:

- Activation of the Node 11 (Carnangarra) first post-winter flow management strategy for the Nogoa Mackenzie Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 4 days of flow greater than 2,592 ML/day passing Duckponds Gauging Station since the commencement of the strategy; or
- Finalisation of the Node 11 (Carnangarra) first post-winter flow management strategy for the Nogoa Mackenzie Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 4,320 ML/day flow condition for all announced periods for waterharvesting.

9.2 First post-winter flow management strategy for waterharvesting for the Nogoia and Mackenzie rivers between the Comet Mackenzie waterharvesting upstream limit and Bedford Weir (Zones: Mackenzie I, J, K)

The following first post-winter flow management strategy applies to waterharvesting between the Comet Mackenzie waterharvesting upstream limit and Bedford Weir (Zones: Mackenzie I, J, K).

The first post-winter flow management strategy commences at the earlier of:

- Activation of the Node 11 (Carnangarra) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 6 days of flow greater than 2,592 ML/day passing at the junction of the Nogoia and Comet Rivers since the commencement of the strategy; or
- Finalisation of the Node 11 (Carnangarra) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 4,320 ML/day flow condition for all announced periods for waterharvesting.

9.3 First post-winter flow management strategy for waterharvesting for the Mackenzie River between Bedford Weir and the Isaac Mackenzie waterharvesting upstream limit (Zones: Mackenzie F, G, H)

The following first post-winter flow management strategy applies to waterharvesting between Bedford Weir and the Isaac Mackenzie waterharvesting upstream limit (Zones: Mackenzie F, G, H).

The first post-winter flow management strategy commences at the earlier of:

- Activation of the Node 10 (Bingegang) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 6 days of flow greater than 2,592 ML/day passing Bingegang Weir since the commencement of the strategy; or
- Finalisation of the Node 10 (Bingegang) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 4,320 ML/day flow condition for all announced periods for waterharvesting.

9.4 First post-winter flow management strategy for waterharvesting for the Mackenzie River between the Isaac Mackenzie waterharvesting upstream limit and the Dawson River junction (Zones: Mackenzie A, B, C, D, E)

The following first post-winter flow management strategy applies to waterharvesting between the Isaac Mackenzie waterharvesting upstream limit and the Dawson River junction (Zones: Mackenzie A, B, C, D, E).

The first post-winter flow management strategy commences at the earlier of:

- Activation of the Node 10 (Bingegang) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 1 October.

The first post-winter flow management strategy ends at the earlier of:

- 8 days of flow greater than 2,592 ML/day passing Coolmaringa Gauging Station since the commencement of the strategy; or
- Finalisation of the Node 10 (Bingegang) first post-winter flow management strategy for the Nogoia Mackenzie Water Supply Scheme; or
- 30 April.

For the full duration of the first post-winter flow management strategy, the chief executive will apply a 4,320 ML/day flow condition for all announced periods for waterharvesting.

10 Assessment of quantity of unsupplemented water taken

For the assessment of the quantity of unsupplemented water taken under a water allocation or water licence:

- A water allocation or water licence holder must advise the chief executive prior to taking unsupplemented water;
- A water allocation or water licence holder must provide recordings of water taken to the chief executive;
- Only water taken during announced periods may be taken as unsupplemented water unless otherwise authorised by the chief executive under Section 7;
- The chief executive will advise the Resource Operations Licence holder for the Nogoia Mackenzie Water Supply Scheme of the meter readings and the approved quantities of unsupplemented water taken within 7 business days of the conclusion of announced periods for all management reaches in the Nogoia Mackenzie Water Management Area; and
- Any water taken that is not in accordance with these rules for unsupplemented water and taken from within the limits of the Nogoia Mackenzie Water Supply Scheme will be treated as supplemented water.

11 Seasonal water assignment rules

A water allocation holder may apply under Section 142 of the Water Act for a seasonal water assignment for the water year in which the application is made.

Seasonal water assignment of water licences in the Nogoia Mackenzie Water Management Area is not permitted.

An application for a seasonal assignment of a water allocation located in zone Mackenzie A, B, C, D, or E will be approved for:

- All or part of that portion of the volumetric limit for the water allocation that has not been taken in the current water year; if
- The water under seasonal assignment is taken from within zone Mackenzie A, B, C, D or E.

An application for a seasonal assignment of a water allocation located in zone Mackenzie F, G, H, I, J or K will be approved for:

- All or part of that portion of the volumetric limit for the water allocation that has not been taken in the current water year; if
- The water under seasonal assignment is taken from within zone Mackenzie F, G, H, I, J or K.

An application for a seasonal assignment of a water allocation located in zone Mackenzie L will be approved for:

- All or part of that portion of the volumetric limit for the water allocation that has not been taken in the current water year; and
- The water under seasonal assignment is taken from within zone Mackenzie L.

On approval the chief executive will issue a water permit for the seasonal assignment. The conditions for the water permit will include:

- A maximum rate for taking water in the same proportion to the seasonal assignment volume as the maximum rate for taking water is to the volumetric limit stated on the water allocation under seasonal assignment; and
- A passing flow condition the same as the water allocation under seasonal assignment.

On approval of the water permit, the chief executive will reduce the volumetric limit for the current water year and the maximum rate for taking water for the remainder of the current water year for the water allocation under seasonal assignment by the volume and maximum rate specified for the water permit.

The holder of the seasonal assignment water permit must be a holder of a development permit for works used to take the seasonally assigned water.

12 Procedures

Details of procedures associated with the implementation of these operating rules may be obtained from the chief executive.

Attachment 5.2G

Nogoa Mackenzie Water Management Area Operating rules for water allocations with up to 9 ML/day passing flow conditions

These operating rules apply to water allocations with up to 9 ML/day passing flow conditions in the Nogoa Mackenzie Water Management Area, from the Springton Creek junction to the Dawson River junction.

1 Water year

The water year is from 1 July to 30 June the following year.

2 Location from which water may be taken

The location from which water may be taken for a water allocation with a passing flow condition is described on the water allocation as a zone.

The location from which water may be taken for a water allocation without a passing flow condition is specified as two components on a water allocation. The first component is the zone specification. The second component is the position specification, which is the AMTD position along the river within the zone. The holders of these water allocations may take water below the cease to flow level of a waterhole at the AMTD location on the water allocation.

Descriptions of zones for the Nogoa and Mackenzie rivers are given in Attachment 2.2.

3 Purpose for which water may be taken

The purpose for which water may be taken is stated on each water allocation. For the purpose of ‘agriculture’, water may be taken for agricultural purposes. For the purpose of ‘any’, water may be taken for any purpose.

4 Maximum volume of water taken

The maximum volume of water taken in any water year must not exceed the volumetric limit stated on a water allocation.

5 Maximum rate for taking water

The maximum rate that water may be taken is the maximum rate stated on a water allocation, averaged over any continuous 48-hour period.

Under the provisions of Chapter 8, the chief executive may amend the specified continuous period having regard to water sharing between allocation holders and the objectives of the Water Resource Plan.

6 Flow conditions under which water may be taken

The passing flow conditions stated on a water allocation is the stream flow nominally required to pass downstream while water is being taken under the water allocation.

For water allocations with stated passing flow conditions, the chief executive will determine those periods when the passing flow conditions exist and when water may be taken by assessment of stream flows at the locations in Table 1. The chief executive will notify water allocation holders when the taking of water is permitted.

For water allocations without stated passing flow conditions, the limitations for taking water from waterholes given in Section 7 apply.

Table 1: Management reaches and flow management locations for water allocations with 9 ML/day passing flow conditions

Management reach	Flow management location
Zones: Mackenzie A	Mackenzie River at the Springton Creek junction

7 Drawdown conditions for waterholes

The following conditions apply to holders of water allocations without passing flow conditions who may take water below the cease to flow level of a waterhole:

- A water allocation holder must advise the chief executive prior to taking water from a waterhole more than 0.5 metres below the cease to flow level;
- A water allocation holder must keep a daily record of the level of a waterhole below cease to flow level when taking water from a waterhole more than 0.5 metres below the cease to flow level;
- The chief executive may limit the water that may be taken under a water allocation from a waterhole by notifying the holder of a water allocation if the chief executive is satisfied that limitations are necessary for protection of the natural ecosystem, or sharing the available water at times of water shortage. Limits on the water that may be taken may include any one or more of the following:
 - The times when water may be taken by a water allocation holder;
 - The purpose for which water may be taken; and
 - The volume of water that may be taken by a water allocation holder.

8 First post-winter flow management strategy

First post-winter flow management strategies do not apply.

9 Water allocation holder to record quantity of water taken

Each water allocation holder must record the quantity of water taken and provide the chief executive with those records.

10 Seasonal water assignment rules

A water allocation holder may apply under Section 142 of the Water Act for a seasonal water assignment for the water year in which the application is made.

10.1 Water allocations with 9 ML/day passing flow conditions

An application for a seasonal assignment of a water allocation with a 9 ML/day passing flow condition will be approved for:

- All or part of that portion of the volumetric limit for the water allocation that has not been taken in the current water year; if
- The water under seasonal assignment is taken from within zone Mackenzie A.

On approval the chief executive will issue a water permit for the seasonal assignment. The conditions for the water permit will include:

- A maximum rate for taking water in the same proportion to the seasonal assignment volume as the maximum rate for taking water is to the volumetric limit stated on the water allocation under seasonal assignment; and
- A passing flow condition of 9 ML/day.

On approval of the water permit, the chief executive will reduce the volumetric limit for the current water year and the maximum rate for taking water for the remainder of the current water year for the water allocation under seasonal assignment by the volume and maximum rate specified for the water permit.

The holder of the seasonal assignment water permit must be a holder of a development permit for works used to take the seasonally assigned water.

10.2 Water allocations with no passing flow conditions

An application for a seasonal assignment for a water allocation with no passing flow conditions will be approved for:

- All or part of the portion of the volumetric limit for the water allocation that has not been taken in the current water year; if
- The water under seasonal assignment will be taken from the same waterhole indicated by the AMTD position specified on the water allocation.

On approval the chief executive will issue a water permit for the seasonal assignment. The conditions specified for the water permit will include:

- A maximum rate for taking water in the same proportion to the seasonal assignment volume as the maximum rate for taking water is to the volumetric limit stated on the water allocation under seasonal assignment; and
- No passing flow condition.

On approval of the water permit, the chief executive will reduce the volumetric limit for the current water year and the maximum rate for taking water for the remainder of the current water year for the water allocation under seasonal assignment by the volume and maximum rate specified for the water permit.

The holder of the seasonal assignment water permit must be a holder of a development permit for works used to take the seasonally assigned water.

11 Procedures

Details of procedures associated with the implementation of these operating rules are

available from the chief executive.

Attachment 5.2H

Nogoa Mackenzie Water Management Area

Water allocation change rules

1 Permitted changes

Applications for the following changes to a water allocation will be approved. On approval a change certificate will be issued by the chief executive, which may be lodged with the registrar of water allocations.

1.1 Location

1.1.1 Water allocations with 2,592 or 4,320 ML/day passing flow conditions

A change to the location of a water allocation with a 2,592 or 4,320 ML/day passing flow condition from any one of the following zones to any other of those zones:

- Mackenzie A;
- Mackenzie B;
- Mackenzie C;
- Mackenzie D; or
- Mackenzie E.

A change to the location of a water allocation with a 2,592 or 4,320 ML/day passing flow condition from any one of the following zones to any other of those zones:

- Mackenzie F;
- Mackenzie G;
- Mackenzie H;
- Mackenzie I;
- Mackenzie J; or
- Mackenzie K.

1.1.2 Water allocations with no flow conditions

A change to the AMTD position specification for the location of a water allocation with no flow conditions to a new AMTD position on the same waterhole that applies to the allocation being changed.

A change to remove the AMTD specification of the location of a water allocation with no flow conditions. A passing flow condition of 9 ML/day will be set for the changed water allocation.

1.2 Purpose

A change to the purpose of a water allocation from 'any' to 'agriculture' or from 'agriculture' to 'any'.

1.3 Amalgamation or subdivision

A change to subdivide a water allocation into two or more water allocations, provided:

- The volumes and the maximum rates for each of the new water allocations are in the same proportion as the volumes and the maximum rates for the original water allocation; and
- The sum of the volumes and the maximum rates for the new water allocations is the same as the volumes and the maximum rate for the original allocation.

A change to amalgamate two or more water allocations with the same location and the same flow condition specifications, provided:

- The volumes and the maximum rate for the new water allocation are the combined volumes and the combined maximum rates specified for the original water allocations.

A change to amalgamate two or more water allocations with AMTD position specifications that apply to the same waterhole, provided:

- The volumes and rate for the new water allocation are the combined volumes and the combined rates of the original water allocations; and
- The AMTD specification for the new water allocation applies to the same waterhole as the original water allocations.

2 Prohibited changes

The following changes are prohibited changes.

2.1 Location

For a water allocation with a 2,592 ML/day or 4,320 ML/day passing flow condition, a change to a location that is not:

- Zone Mackenzie A, B, C, D, E, F, G, H, I, J, K, or L in the Nogoia Mackenzie Water Management Area; or
- Zone Fitzroy A, B, C, D, or E in the Fitzroy Water Management Area.

For a water allocation with a 9 ML/day passing flow condition or no flow condition, a change to a location that is not:

- Zone Mackenzie A in the Nogoia Mackenzie Water Management Area; or
- Zone Fitzroy D or Fitzroy E in the Fitzroy Water Management Area.

2.2 Purpose

A change to a purpose that is not 'agriculture' or 'any'.

2.3 Volume

A change to the volume of a water allocation that is not a consequence of a change to another attribute of a water allocation.

2.4 Rate

A change to the maximum rate of a water allocation that is not a consequence of a change to another attribute of a water allocation.

2.5 Supply of water under a resource operations licence

A change to a water allocation that would result in a water allocation being managed under a Resource Operations Licence.

2.6 Other

A change to a water allocation that requires an amendment to this ROP, other than an amendment provided for in Chapter 8.

3 Application for change under Section 130 of the Water Act

If a water allocation holder wishes to apply for a change to a water allocation that is not permitted under Section 1 above, and not prohibited under Section 2 above, then application may be made under Section 130 of the Water Act for the change.

The chief executive will deal with applications made under Section 130 of the Water Act, in accordance with the Water Act. That process is as follows:

- Notice of the application is published in local newspapers. The notice includes information about where the application can be inspected and invites submissions from the public on the application.
- The chief executive determines if the application should be approved having regard to the potential impact on a range of interests including other entitlement holders and aquatic ecosystems.
- If the chief executive approves the application, the chief executive will issue a change certificate that may be lodged with the registrar of water allocations.
- If the chief executive refuses the application, the Water Act provides for an appeal process.

4 Registration of change

If an application to change a water allocation is approved, the chief executive will issue a change certificate. The water allocation holder may lodge the change certificate with the registrar of water allocations who will change the water allocation on the water allocation register.