

Environment Protection Licence Number: 5014
 (<http://www.environment.nsw.gov.au/licensing/index.htm>)

Monitoring period: November 2016

Date Data obtained: 06-Dec-16

Date Data published: 09-Dec-16

Discharge monitoring : daily using a level sensor and continuous logger

Discharge (Megalitres per day)

	Site	Name	Min	Mean	Median	Max	Total	
1	DRWK	Wakool SEC (DC 1000)	no flow (doors shut)					
2	DBCE	Deniboota Canal Escape	backed up from creek					
3	MOXM	Box Creek	2	7	7	18	213	
4	BIFE	Finley Escape*	backed up from creek					
5	DENI	North Deniliquin SEC	no flow					
6	BIOW	Wollamai SEC	backed up from creek - no flow					
7	BIWE	Wollamai East SEC	backed up from creek - no flow					
8	BBR1	Back Barooga SEC	no flow					
9	BIBE	Berrigan Creek Escape	backed up from creek - no flow					
10	TUPJ	Lalaly SEC	no flow					
11	TCPL	Pinelea SEC	no flow					
12	NMBR	Burragorrimma SEC	backed up from river (doors shut)					
13	TCND	Neimur SEC	no flow (doors shut)					
14	JJJS	DC 2500 East	no flow					
15	JIBU	Burraboi SEC	no access (flooded)					
16	WRMT	Murphy's Timber SEC	backed up from river - no flow					
17	TCWW	West Warragoon SEC	no flow					
18	TCW2	Warragoon Stage 2	no flow					

This data has not been verified. Murray Irrigation makes no representation, express or implied, as to the accuracy, completeness, or fitness for any particular purpose of this data, and this data should not be relied upon in any way. Verified data will be available at the end of the reporting period.

*: Finley Escape is an accredited escape with the Water NSW

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Electrical conductivity monitoring: continuous using electronic sensor and logger

Electrical Conductivity (microsiemens per centimetre = $\mu\text{S}/\text{cm}$)

	Site	Name	Min	Mean	Median	Max
1	DRWK	Wakool SEC (DC 1000)	not required			
2	DBCE	Deniboota Canal Escape	not required			
3	MOXM	Box Creek	521	1,288	1,238	2,298
4	BIFE	Finley Escape*	not required			
5	DENI	North Deniliquin SEC	not required			
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	not required			
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	not required			
11	TCPL	Pinelea SEC	not required			
12	NMBR	Burraborrimma SEC	not required			
13	TCND	Neimur SEC	not required			
14	JJS	DC2500 East	not required			
15	JIBU	Burraboi SEC	not required			
16	WRMT	Murphy's Timber SEC	not required			
17	TCWW	West Warragoon SEC	not required			
18	TCW2	Warragoon Stage 2	not required			

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Turbidity: monthly during discharge

Turbidity (nephelometric turbidity units = NTU)

	Site	Name	Sample date	Date data obtained	Turbidity
1	DRWK	Wakool SEC (DC 1000)	not required		
2	DBCE	Deniboota Canal Escape	not required		
3	MOXM	Box Creek	19/11/2016	24/11/2016	115
4	BIFE	Finley Escape	not required		
5	DENI	North Deniliquin SEC	not required		
6	BIOW	Wollamai SEC	not required		
7	BIWE	Wollamai East SEC	not required		
8	BBR1	Back Barooga SEC	not required		
9	BIBE	Berrigan Creek Escape	not required		
10	TUPJ	Lalaly SEC	not required		
11	TCPL	Pinelea SEC	not required		
12	NMBR	Burraborrimma SEC	not required		
13	TCND	Neimur SEC	not required		
14	JJIS	DC2500 East	not required		
15	JIBU	Burraboi SEC	not required		
16	WRMT	Murphy's Timber SEC	not required		
17	TCWW	West Warragoon SEC	not required		
18	TCW2	Warragoon Stage 2	not required		

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Total Nitrogen and Total Phosphorus monitoring:
 representative sample at monthly intervals when daily flow exceeds 5ML/day

Total Nitrogen and Total Phosphorus (milligrams per litre = mg/L)

	Site	Name	Sample date	Date data obtained	Total Phosphorus	Total Nitrogen
1	DRWK	Wakool SEC (DC 1000)	not required			
2	DBCE	Deniboota Canal Escape	not required			
3	MOXM	Box Creek	19/11/2016	24/11/2016	0.152	2.1
4	BIFE	Finley Escape	not required			
5	DENI	North Deniliquin SEC	not required			
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	not required			
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	not required			
11	TCPL	Pinelea SEC	not required			
12	NMBR	Burragorrimma SEC	not required			
13	TCND	Neimur SEC	not required			
14	JISJ	DC2500 East	not required			
15	JIBU	Burraboi SEC	not required			
16	WRMT	Murphy's Timber SEC	not required			
17	TCWW	West Warragoon SEC	not required			
18	TCW2	Warragoon Stage 2	not required			

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Monitoring period: monitoring required Oct - Dec

Date Data published: 09-Dec-16

Pesticide monitoring: molinate
 Special frequency 1. Representative samples when flow exceeds 5ML/day

Molinate (micrograms per litre = µg/L)

	Site	Name	Sample date	Date data obtained	Molinate (ELIZA)	Molinate (HPLC)
1	DRWK	Wakool SEC (DC 1000)	not required			
2	DBCE	Deniboota Canal Escape	not required			
3	MOXM	Box Creek	1/11/2016	8/11/2016	<1.25	<1
3	MOXM	Box Creek	5/11/2016	18/11/2016	<1.25	<1
3	MOXM	Box Creek	12/11/2016	18/11/2016	<1.25	<1
3	MOXM	Box Creek	15/11/2016	18/11/2016	<1.25	<1
3	MOXM	Box Creek	19/11/2016	1/12/2016	N/A	<1
4	BIFE	Finley Escape	not required			
5	DENI	North Deniliquin SEC	not required			
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	not required			
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	not required			
11	TCPL	Pinelea SEC	not required			
12	NMBR	Burragorrimma SEC	not required			
13	TCND	Neimur SEC	not required			
14	JISJ	DC2500 East	not required			
15	JIBU	Burraboi SEC	not required			
16	WRMT	Murphy's Timber SEC	not required			
17	TCWW	West Warragoon SEC	not required			
18	TCW2	Warragoon Stage 2	not required			

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Pesticide monitoring: thiobencarb

Special frequency 2. Representative samples when flow exceeds 5ML/day

Thiobencarb (micrograms per litre = µg/L)

	Site	Name	Sample date	Date data obtained	Thiobencarb
1	DRWK	Wakool SEC (DC 1000)		not required	
2	DBCE	Deniboota Canal Escape		not required	
3	MOXM	Box Creek	1/11/2016	8/11/2016	<1
3	MOXM	Box Creek	5/11/2016	18/11/2016	<1
3	MOXM	Box Creek	12/11/2016	18/11/2016	<1
3	MOXM	Box Creek	15/11/2016	18/11/2016	<1
3	MOXM	Box Creek	19/11/2016	1/12/2016	<1
4	BIFE	Finley Escape		not required	
5	DENI	North Deniliquin SEC		not required	
6	BIOW	Wollamai SEC		not required	
7	BIWE	Wollamai East SEC		not required	
8	BBR1	Back Barooga SEC		not required	
9	BIBE	Berrigan Creek Escape		not required	
10	TUPJ	Lalaly SEC		not required	
11	TCPL	Pinelea SEC		not required	
12	NMBR	Burratorrimma SEC		not required	
13	TCND	Neimur SEC		not required	
14	JJS	DC2500 East		not required	
15	JIBU	Burraboi SEC		not required	
16	WRMT	Murphy's Timber SEC		not required	
17	TCWW	West Warragoon SEC		not required	
18	TCW2	Warragoon Stage 2		not required	

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Pesticide monitoring: atrazine
Special frequency 3. Representative samples when flow exceeds 5ML/day

Atrazine (micrograms per litre = µg/L)

	Site	Name	Sample date	Date data obtained	Atrazine
1	DRWK	Wakool SEC (DC 1000)	not required		
2	DBCE	Deniboota Canal Escape	not required		
3	MOXM	Box Creek	1/11/2016	8/11/2016	<2
3	MOXM	Box Creek	5/11/2016	18/11/2016	<2
3	MOXM	Box Creek	12/11/2016	18/11/2016	<2
3	MOXM	Box Creek	19/11/2016	1/12/2016	<2
4	BIFE	Finley Escape	not required		
5	DENI	North Deniliquin SEC	not required		
6	BIOW	Wollamai SEC	not required		
7	BIWE	Wollamai East SEC	not required		
8	BBR1	Back Barooga SEC	not required		
9	BIBE	Berrigan Creek Escape	not required		
10	TUPJ	Lalaly SEC	not required		
11	TCPL	Pinelea SEC	not required		
12	NMBR	Burratorrimma SEC	not required		
13	TCND	Neimur SEC	not required		
14	JJS	DC2500 East	not required		
15	JIBU	Burraboi SEC	not required		
16	WRMT	Murphy's Timber SEC	not required		
17	TCWW	West Warragoon SEC	not required		
18	TCW2	Warragoon Stage 2	not required		