

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

**Monitoring period:** August 2016

**Date Data obtained:** 07-Sep-16

**Date Data published:** 08-Sep-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					
2	DBCE	Deniboota Canal Escape	no flow					
3	MOXM	Box Creek	2	20	13	81	617	
4	BIFE	Finley Escape*	backed up from creek					
5	DENI	North Deniliquin SEC	0	34	0.6	36.7	123.8	
6	BIOW	Wollamai SEC	backed up from creek					
7	BIWE	Wollamai East SEC	backed up from creek					
8	BBR1	Back Barooga SEC	0	11	3	79	356	
9	BIBE	Berrigan Creek Escape	backed up from creek					
10	TUPJ	Lalaly SEC	0	30	6	214	922	
11	TCPL	Pinelea SEC	no flow					
12	NMBR	Burragorrimma SEC	backed up from river					
13	TCND	Neimur SEC	no flow					
14	JJJS	DC 2500 East	no flow					
15	JIBU	Burraboai SEC	no flow					
16	WRMT	Murphy's Timber SEC	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 NSW Office of Water

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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	248	441	396	678
4	BIFE	Finley Escape*	not required			
5	DENI	North Deniliquin SEC	201	300	324	377
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC				
8	BBR1	Back Barooga SEC	181	2345	223	341
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	243	1,220	11,180	2,318
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	16/08/2016	19/08/2016	381
4	BIFE	Finley Escape	not required		
5	DENI	North Deniliquin SEC	2/08/2016	19/08/2016	319
6	BIOW	Wollamai SEC	not required		
7	BIWE	Wollamai East SEC	not required		
8	BBR1	Back Barooga SEC	9/08/2016	19/08/2016	430
9	BIBE	Berrigan Creek Escape	9/08/2016		
10	TUPJ	Lalaly SEC	9/08/2016	19/08/2016	431
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	16/08/2016	19/08/2016	0.819	3.6
4	BIFE	Finley Escape	not required			
5	DENI	North Deniliquin SEC	2/08/2016	19/08/2016		
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	9/08/2016	19/08/2016	0.510	3.4
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	9/08/2016	19/08/2016	0.769	3.1
11	TCPL	Pinelea SEC	not required			
12	NMBR	Burragorrimma 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: 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		not required		
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		
7	BIWE	Wollamai East SEC		not required		
8	BBR1	Back Barooga SEC		not required		
9	BIBE	Berrigan Creek Escape		not required		
10	TUPJ	Lalalty SEC		not required		
11	TCPL	Pinelea SEC		not required		
12	NMBR	Burragorrimma 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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**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		not required	
4	BIFE	Finley Escape		not required	
5	DENI	North Deniliquin SEC		not required	
6	BLOW	Wollamai SEC		not required	
7	BIWE	Wollamai East 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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**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		not required	
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	
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	