

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

Monitoring period: December 2016

Date Data obtained: 16-Jan-17

Date Data published: 17-Jan-17

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) [#]	0	16	21	33	513	
2	DBCE	Deniboota Canal Escape	backed up from creek					
3	MOXM	Box Creek	no flow					
4	BIFE	Finley Escape*	1	11	6	40	325	
5	DENI	North Deniliquin SEC	no flow					
6	BIOW	Wollamai SEC	no flow					
7	BIWE	Wollamai East SEC	no flow					
8	BBR1	Back Barooga SEC	no flow					
9	BIBE	Berrigan Creek Escape	0	4	3	15	103	
10	TUPJ	Lalaly SEC	no flow					
11	TCPL	Pinelea SEC	no flow					
12	NMBR	Burragorrimma SEC	equipment malfunction					
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 Water NSW

[#]: Environmental flow to mitigate blackwater event caused by flooding

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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) [#]	82	132	97	266
2	DBCE	Deniboota Canal Escape	not required			
3	MOXM	Box Creek	not required			
4	BIFE	Finley Escape*	59	90	88	150
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	137	206	194	391
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		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	
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	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			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	
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: 17-Jan-17

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
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	JJJS	DC2500 East				not required
15	JIBU	Burraboi SEC				not required
16	WRMT	Murphy's Timber SEC				not required
17	TCWW	West Warragoona SEC				not required
18	TCW2	Warragoona 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	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	JIJS	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	BLOW	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	