

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

Monitoring period: October 2016

Date Data obtained: 14-Nov-16

Date Data published: 15-Nov-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	7.7	117	41.4	456	3,627	
4	BIFE	Finley Escape*	backed up from creek					
5	DENI	North Deniliquin SEC	4.1	8.5	8.8	17.3	93.9	
6	BIOW	Wollamai SEC	backed up from creek					
7	BIWE	Wollamai East SEC	backed up from creek					
8	BBR1	Back Barooga SEC	0	82.9	21.3	447	2,568	
9	BIBE	Berrigan Creek Escape	backed up from creek					
10	TUPJ	Lalaly SEC	0.6	45.1	13.3	177	1,398	
11	TCPL	Pinelea SEC	0	2.1	1.4	7.6	64.5	
12	NMBR	Burratorrimma SEC	backed up from river (doors shut)					
13	TCND	Neimur SEC	no flow (doors shut)					
14	JJJS	DC 2500 East	no flow					
15	JIBU	Burraboii SEC	no access (flooded)					
16	WRMT	Murphy's Timber SEC	backed up from river					
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	261	609	523	1,306
4	BIFE	Finley Escape*	not required			
5	DENI	North Deniliquin SEC	295	358	354	427
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	198	289	284	517
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	383	1,286	1,097	3,678
11	TCPL	Pinelea SEC	297	426	436	518
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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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	18/10/2016	26/10/2016	263
4	BIFE	Finley Escape		not required	
5	DENI	North Deniliquin SEC	4/10/2016	26/10/2016	219
6	BIOW	Wollamai SEC		not required	
7	BIWE	Wollamai East SEC		not required	
8	BBR1	Back Barooga SEC	18/10/16	26/10/2016	330
9	BIBE	Berrigan Creek Escape		not required	
10	TUPJ	Lalaly SEC	18/10/2016	26/10/2016	137
11	TCPL	Pinelea SEC	8/10/2016	26/10/2016	227
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	18/10/2016	26/10/2016	0.773	3.8
4	BIFE	Finley Escape	not required			
5	DENI	North Deniliquin SEC	4/10/2016	26/10/2016	0.307	2.3
6	BIOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	18/10/2016	26/10/2016	0.797	3.1
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalaly SEC	18/10/2016	26/10/2016	0.477	3.0
11	TCPL	Pinelea SEC	8/10/2016	26/10/2016	0.835	2.9
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

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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	1/10/2016	12/10/2016	<1.25	<1
4	MOXM	Box Creek	4/10/2016	12/10/2016	<1.25	<1
5	MOXM	Box Creek	8/10/2016	19/10/2016	<1.25	<1
6	MOXM	Box Creek	11/10/2016	24/10/2016	<1.25	<1
7	MOXM	Box Creek	15/10/2016	27/10/2016	<1.25	<1
8	MOXM	Box Creek	18/10/2016	27/10/2016	<1.25	<1
8	MOXM	Box Creek	22/10/2016	8/11/2016	<1.25	<1
8	MOXM	Box Creek	25/10/2016	8/11/2016	<1.25	<1
4	BIFE	Finley Escape	not required			
5	DENI	North Deniliquin SEC	1/10/2016	12/10/2016	<1.25	<1
6	DENI	North Deniliquin SEC	4/10/2016	12/10/2016	<1.25	<2
6	BLOW	Wollamai SEC	not required			
7	BIWE	Wollamai East SEC	not required			
8	BBR1	Back Barooga SEC	1/10/2016	12/10/2016	<1.25	<1
8	BBR1	Back Barooga SEC	4/10/2016	12/10/2016	<1.25	<2
8	BBR1	Back Barooga SEC	18/10/2016	27/10/2016	<1.25	<1
8	BBR1	Back Barooga SEC	22/10/2016	8/11/2016	<1.25	<1
9	BIBE	Berrigan Creek Escape	not required			
10	TUPJ	Lalalty SEC	1/10/2016	12/10/2016	<1.25	<1
11	TUPJ	Lalalty SEC	4/10/2016	12/10/2016	<1.25	<2
12	TUPJ	Lalalty SEC	8/10/2016	19/10/2016	<1.25	<1
13	TUPJ	Lalalty SEC	11/10/2016	24/10/2016	<1.25	<1
14	TUPJ	Lalalty SEC	15/10/2016	27/10/2016	<1.25	<1
15	TUPJ	Lalalty SEC	18/10/2016	27/10/2016	<1.25	<1
15	TUPJ	Lalalty SEC	25/10/2016	8/11/2016	<1.25	<1

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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)
11	TCPL	Pinelea SEC	1/10/2016	12/10/2016	<1.25	<1
12	TCPL	Pinelea SEC	4/10/2016	12/10/2016	<1.25	<2
13	TCPL	Pinelea SEC	8/10/2016	19/10/2016	<1.25	<1
12	NMBR	Burraborrimma 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 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	22/10/2016	8/11/2016	<1
3	MOXM	Box Creek	25/10/2016	8/11/2016	<1
4	BIFE	Finley Escape		not required	
5	DENI	North Deniliquin SEC			
6	BIOW	Wollamai SEC		not required	
7	BIWE	Wollamai East SEC		not required	
8	BBR1	Back Barooga SEC	22/10/2016	8/11/2016	<1
9	BIBE	Berrigan Creek Escape		not required	
10	TUPJ	Lalaly SEC	25/10/2016	8/11/2016	<1
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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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	1/10/2016	12/10/2016	<2
3	MOXM	Box Creek	8/10/2016	19/10/2016	<2
3	MOXM	Box Creek	18/10/2016	27/10/2016	<2
3	MOXM	Box Creek	22/10/2016	27/10/2016	<2
4	BIFE	Finley Escape	not required		
5	DENI	North Deniliquin SEC	1/10/2016	12/10/2016	<2
6	BIOW	Wollamai SEC	not required		
7	BIWE	Wollamai East SEC	not required		
8	BBR1	Back Barooga SEC	1/10/2016	12/10/2016	<2
8	BBR1	Back Barooga SEC	18/10/2016	27/10/2016	<2
8	BBR1	Back Barooga SEC	22/10/2016	27/10/2016	<2
9	BIBE	Berrigan Creek Escape	not required		
10	TUPJ	Lalaly SEC	1/10/2016	12/10/2016	<2
10	TUPJ	Lalaly SEC	8/10/2016	19/10/2016	<2
10	TUPJ	Lalaly SEC	18/10/2016	27/10/2016	<2
10	TUPJ	Lalaly SEC	25/10/2016	27/10/2016	<2
11	TCPL	Pinelea SEC	1/10/2016	12/10/2016	<2
11	TCPL	Pinelea SEC	8/10/2016	19/10/2016	<2
12	NMBR	Burratorrimma SEC	not required		
13	TCND	Neimur SEC	not required		
14	JJS	DC2500 East	not required		
15	JIBU	Burraboai 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		