



Werribee River. Courtesy Alison Pouliot

Port Phillip Region

The Port Phillip region is Victoria's most diverse and complex by virtue of its location, geography and demography. More than two-thirds of the State's population lives within the region - that equates to over four million people and 1.4 million dwellings. Yet despite these figures, the region boasts large areas of natural forest, over 900 wetlands, rural farmland and a number of significant water storages.

Six river basins form the region – Bunyip (basin 28), Yarra (basin 29), Maribyrnong (basin 30), Werribee (basin 31) and parts of South Gippsland (basin 27) and Moorabool (basin 32).

In each of the basins, urban development neighbours the rural fringe which in turn gives way to the naturally forested Great Dividing Range, Wombat State Forest and Strezlecki Ranges in the north. In the south of the region, low-lying river flats have been claimed for valuable intensive horticulture and market gardens.

River flows in the region are highly regulated by way of a number of water storages including the Tarago, Cardinia, Upper Yarra, Maroondah, Rosslyne, Pykes Creek, Merrimu and Melton reservoirs.

The Yarra basin was the only basin in the region to have any stream length in excellent condition (3%) while the Bunyip, Yarra, and Werribee basins had small amounts of stream length in good condition (1%, 9%, 10%, respectively). The majority of stream length across the region was in moderate or poor condition.

Water Quality

Sixty-five reaches were tested for water quality across the Port Phillip region. The majority of the reaches were in the Bunyip and Yarra basins.

Of the 25 reaches assessed in the Bunyip basin, 76% were found to have water quality of poor or very poor condition. With a few exceptions, reaches in the Bunyip basin showed highly elevated phosphorus, salinity and turbidity levels.

Twenty reaches were tested in the Yarra basin representing a good geographical spread across the basin. Results ranged from good to very poor. The two reaches assessed as very poor are both located in the west of the basin on the Merri Creek (reach 107) and Darebin Creek (reach 109) - both in areas of urban development. Both reaches had extremely high levels of phosphorus, salinity and turbidity. In contrast, reach 4 on the Upper Yarra River and reach 33 on O'Shannassy River were in good condition.

Six reaches were assessed in the Maribyrnong basin and all were rated as poor. The reaches, located in the mid and lower sections of the basin, had highly elevated salinity, phosphorus and turbidity levels. These results are consistent with the highly developed environment.

Results varied between good and poor for the nine reaches tested in the Werribee basin. As with the other basins in the region, reaches in poor condition were in areas of land cleared for urban development or agriculture (reaches 5, 7, 22 and 24) and reaches in good condition (4 and 15) were located in forested land.

All sites assessed along the Bass River (reaches 201, 2 and 4) in the South Gippsland basin had poor water quality with elevated turbidity, phosphorus and salinity levels.



Merri Creek downstream of Coburg Lake weir. Courtesy Alison Pouliot

Hydrology

Flow regimes across the Port Phillip region are highly modified due to the operation of reservoirs, farm dams and diversions for agricultural and domestic use. There were a few exceptions - a small number of headwater streams in the forested sections of the Yarra, Maribyrnong and Werribee basins had near natural flow regimes.

Environmental water was made available in the Yarra, Bunyip and Werribee basins in 2011-12. In the Yarra basin, the Upper Yarra, O'Shannassy and Maroondah Reservoirs provided 4,771 ML of environmental water. Reach 5 on the Yarra River met 66% (two out of three) of its priority watering actions, and reach 1 met one of its two priority watering actions. For both of these reaches, the recommended magnitude and duration of the winter high and low flows were not always met.

Environmental water out of Tarago Reservoir was not required to meet priority watering actions as these were met from natural flows. Reach 21 on the Tarago River met all four of its environmental watering objectives. Reach 16 on the Bunyip Main Drain met one of its three priority watering actions. Two priority watering actions were not fully met as flows were above the recommended target for both the summer and winter freshes.

Environmental water out Melton Reservoir and Merrimu Reservoir was not required to meet priority watering actions as these were met from natural flows. The Werribee River below Melton Reservoir (reach 2) met all four of its priority watering actions. Pyrites Creek below Merrimu Reservoir (reach 11) met 75% of its priority watering actions (3 out of 4). As there was flow throughout the year, reach 11 did not reach its target for the number of cease to flow events.

Climate had a severe impact across the entire Port Phillip region and on almost all reaches. Reaches most heavily affected included reaches 22 (Tarago River) and 23 (Labertouche River) in the Bunyip basin; reaches 21 (Pauls Creek), 31 (Little Yarra River) and 32 (Big Pats Creek) in the Yarra basin; reaches 4 (Jacksons River) and 16 (Charlies Creek) in the Maribyrnong basin; and reaches 9 (Djerriwarrh Creek) and 11 (Pyrites Creek) in the Werribee basin. With the exception of those reaches in the Werribee basin, all are headwater streams located upstream of major reservoirs.

Streams in the Bunyip basin had variable results for hydrology, with reaches in natural condition through to reaches with extremely modified flows. Streams with extremely modified regimes included Baxter Creek (reach 8) and Yallock Creek (reaches 33 and 233). The only reach with unmodified flows was Ararat Creek (reach 20). All reaches in the Bunyip basin experienced summer stress and most had extended periods of low flow, with many also exhibiting extended periods of zero flows in summer. Both the Tarago River (reach 22) and Labertouche Creek (reach 23) had extreme alterations to both summer and winter flows.

Results for the Yarra basin ranged from two headwater streams with near natural flow - Watts River above Maroondah Reservoir (reach 23), and O'Shannassy River (reach 34), to streams with highly compromised flow regimes - lower Yarra River (reaches 218 and 219). Most reaches exhibited summer stress with extended periods of low flow during summer.

A small number of streams had natural flow regimes in the Werribee basin, Djerriwarrh Creek (reach 9), Pyrites Creek (reach 12), and Goodmans Creek (reach 17).

In contrast, Jacksons (reach 1) and Charlies Creeks (reach 16) in the Maribyrnong basin; Werribee River (reaches 1 and 201), Toolern Creek (reaches 7 and 8) and Goodmans Creek (reach 16) in the Werribee basin; and Little River (reaches 18, 19, 24 and 224), and Reilies Creek (reach 20) in the Port Phillip section of the Moorabool basin had highly modified hydrology.

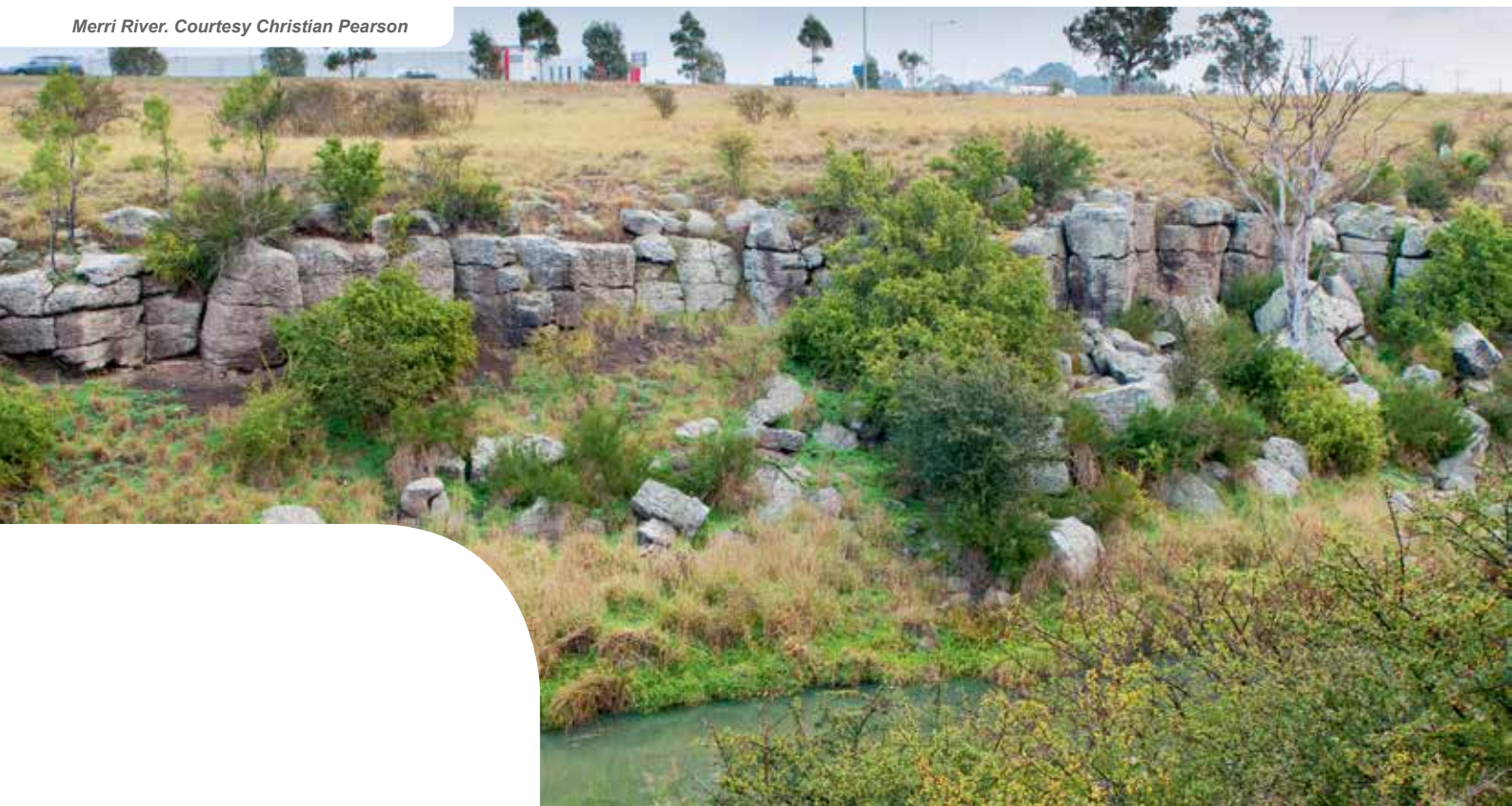
Most reaches across the Maribyrnong, Werribee and Moorabool basins exhibited some level of summer stress with extended periods of low flow.

Vegetation

Results for the condition of streamside vegetation ranged across the region from reaches in poor condition (31%, or 41 of the 131 reaches assessed) to those in reference or near reference condition (21% or 27 reaches).

Results for the individual basins largely reflected the extent of land cleared for agriculture and urban development. For example, the densely vegetated eastern half of the Yarra basin was found to be in the best condition with 37% (13 reaches) of its reaches in excellent condition and 34% (12 reaches) in good condition. In contrast, streamside vegetation in the Maribyrnong basin was in the poorest condition with 44% (eight reaches) of the reaches assessed as poor and a further 33% (six reaches) in moderate condition.

Merri River. Courtesy Christian Pearson



Similarly, in the Werribee basin 43% (12 reaches) and 14% (four reaches) of reaches assessed were rated in poor and moderate condition respectively.

Seven reaches in the Moorabool basin were assessed as part of the Port Phillip region and of these, only one reach (reach 20 on the densely vegetated Reilies Creek) was found to be in near reference condition. The majority of reaches (reaches 18, 21, 22, 24 and 224) were in poor condition.

In the Yarra basin, five reaches were in reference condition (reaches 6, 29, 32, 33 and 34). All are headwater streams located in the densely forested east of the basin. The poorest reach in the Yarra basin was on Darebin Creek (reach 9). Similarly, Merri Creek (reaches 7 and 8) and the lower Yarra River (reach 219) rated poorly. All three of these reaches flow through cleared, heavily modified land.

Two reaches in the Bunyip basin - Cardinia Creek (reach 13) and Tarago River (reach 22) were in reference condition with a further three reaches (reaches 4, 18 and 25) in near reference condition. All of these reaches are located in the vegetated pocket in the north of the basin, except for Stony Creek (reach 4) which is in a semi-urban area in the south-west of the basin.

The poorest reaches in the Bunyip basin are all located in heavily cleared agricultural land in the estuarine zones (reaches 211, 215, 227 and 233).

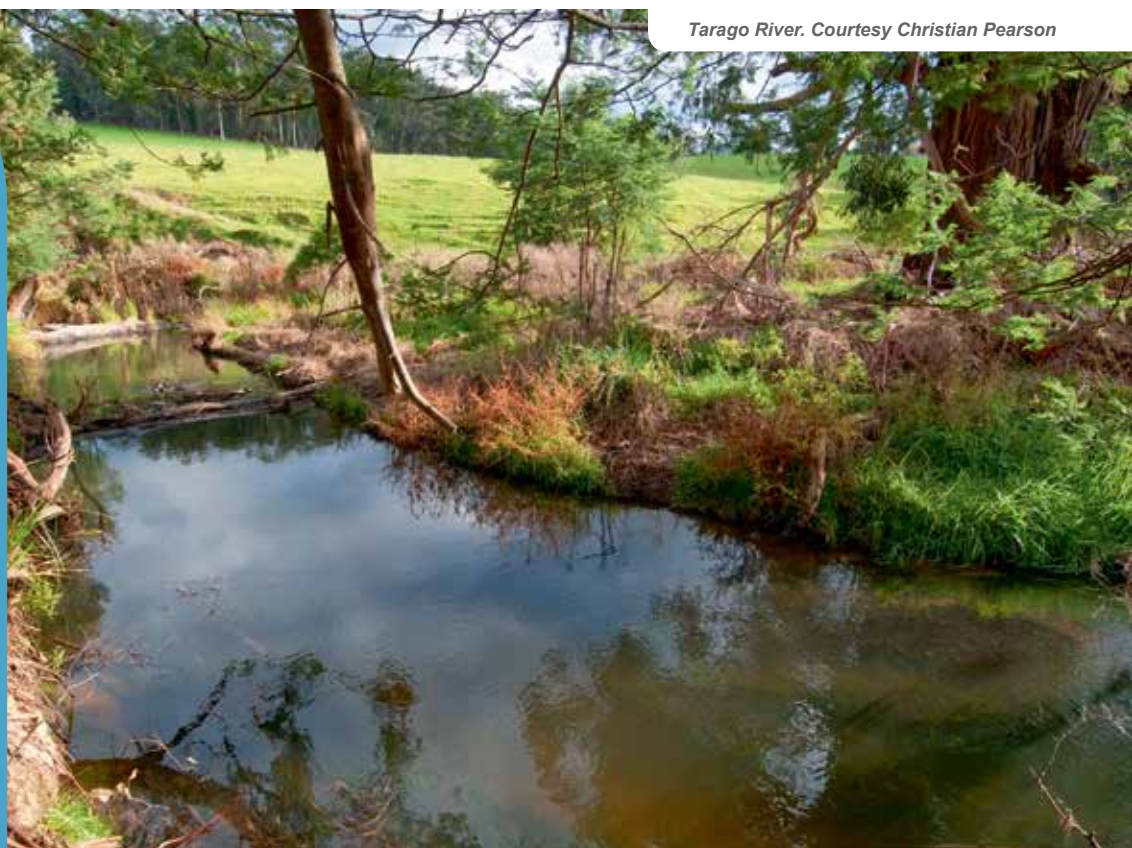
Scores were attributed to poor vegetation width, continuity, structure and overhang. Upstream of these estuarine reaches - notably reaches 9, 16, 19, 26, 27 and 33 - results were similarly poor with a lack of vegetation width, highly fragmented and generally low cover of trees and shrubs.

In the Maribyrnong basin, two reaches were in near reference condition - Jacksons Creek (reach 4) and Bolinda Creek (reach 13). Both reaches are located in the densely vegetated western corner of the basin.

The majority of reaches in the Maribyrnong basin rated poorly with the poorest being reaches 2, 11, 12 and 14. All were located in areas cleared for agriculture.

Many of the reaches in the Werribee basin (12 of the 28 assessed) were in poor condition with poor results for vegetation width, continuity, overhang and presence of large trees. The reaches in the poorest condition were 18, 22-26, 201 and 222. In contrast, reaches 6, 10, 12, 14 and 17 were in excellent condition. Only one reach - reach 15 on the upper Lerderderg River was in reference condition. All reaches in good or excellent condition were located in the forested northern part of the basin.

The four reaches assessed on the Bass River in the South Gippsland basin were in poor or moderate condition. Of note was reach 2 which had extensive stands of willows.



Tarago River. Courtesy Christian Pearson

Physical Form

The physical condition of the majority of reaches in the Port Phillip region ranged from moderate to excellent. Of the 131 reaches assessed, 46 (35%) were in excellent condition, 52 (39%) were in good condition and 30 (23%) were in moderate condition. Two reaches rated poorly (Lerderderg River reach 13 and Parwin Creek reach 18 in the Werribee basin) and one reach located in the Yarra basin (Watts River reach 23), rated very poorly. Notably, of the 131 reaches assessed, 50 reaches were free of impediments to fish passage and of these, 31 were in the Bunyip basin.

The Bunyip basin had the highest proportion of reaches in excellent condition (54% or 21 of the 39 reaches assessed), including 14 reaches in reference condition. These results are largely attributed to the absence of major fish barriers. Of the remaining reaches assessed in the Bunyip basin, 33% (13 reaches) were in good condition and 13% (5 reaches) were in moderate condition.

Physical condition in the Maribyrnong basin also ranged from moderate to excellent with 17% (three reaches) in moderate condition, 44% (eight reaches) in good condition and 39% (seven reaches) in excellent condition. One reach, (Maribyrnong River reach 201), was in reference condition. Moderate and good scores were attributed to stable banks but low levels of instream woody habitat and the presence of major fish barriers.

Eight reaches (23%) of the 35 assessed in the Yarra basin were in excellent condition and of those, two reaches (reaches 218 and 219) were in reference condition. Of the remainder assessed, eight reaches (23%) were in good condition, three reaches (8%) were in moderate condition and one reach, (Watts River reach 23), scored very poorly for all parameters and was the poorest reach of those assessed in the Port Phillip region.

Results for the 28 reaches assessed in the Werribee basin ranged from poor to excellent. Two reaches (7%) were in poor condition (reaches 13 and 18), both of which had low levels of instream woody habitat, major downstream fish barriers and moderate bank instability. Eleven reaches (40%) were in moderate condition, ten (35%) were in good condition and five (18%) were in excellent condition. Of those in excellent condition, one was in reference condition (Skeleton Creek reach 222). Reaches 1, 2, 7 and 201 were in near reference condition, predominantly due to lower than optimal levels of instream woody habitat.

Seven reaches in the Moorabool basin and four reaches in the South Gippsland basin were assessed as part of the Port Phillip region. Notably, five reaches in the Moorabool basin were rated in excellent condition - reaches 18, 19, 20, 24 and 224.

Streams in the South Central Lowland bioregion were not assessed for instream woody habitat, as no suitable reference sites could be found. This applied to 34 of the 39 reaches in the Bunyip basin and all four reaches in the South Gippsland basin.

Yarra River. Courtesy Christian Pearson



Aquatic Life

Aquatic life was assessed at approximately half of the reaches in the Port Phillip region. Results were spread predominantly between poor and good with 4% of reaches falling into the very poor category and 12% rated as excellent.

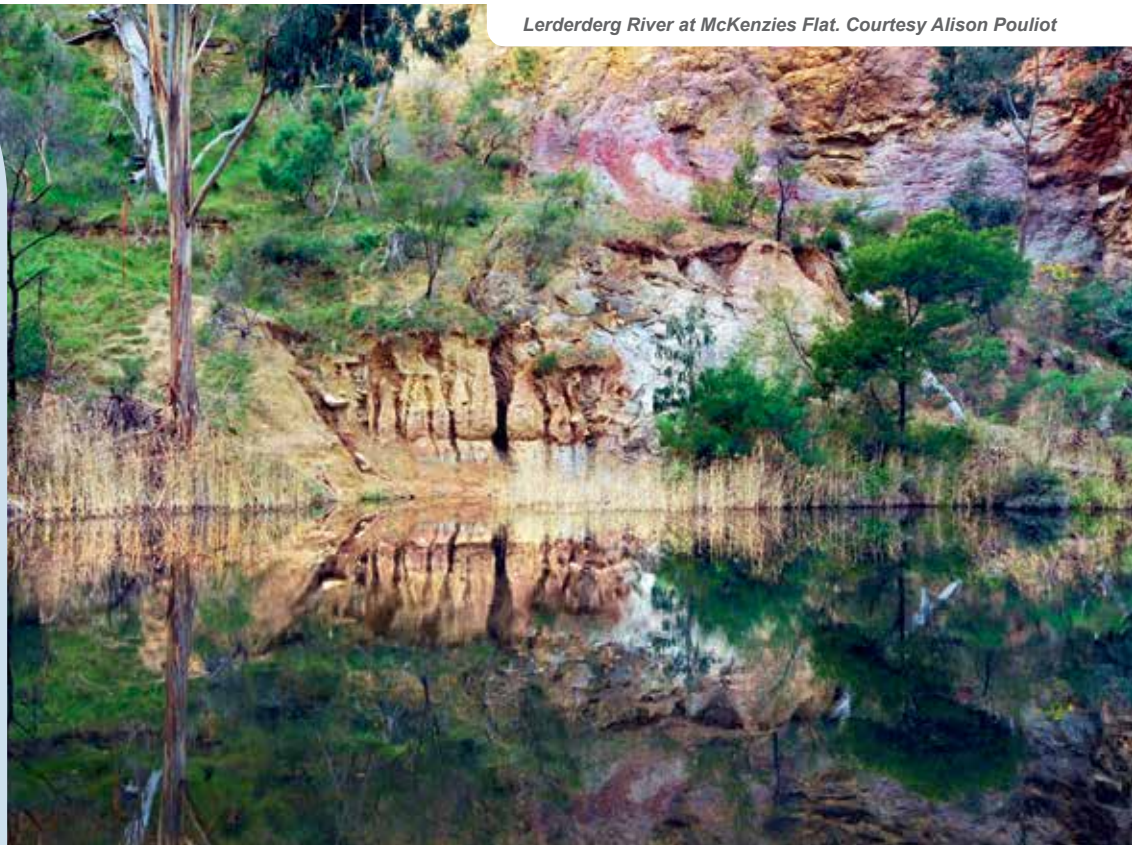
The results varied markedly between basins. For example, the Yarra basin had four reaches in reference condition - Yarra River (reach 6), Watts River (reach 23), and Big Pats Creek (reach 32), all located in the heavily forested upper catchment, and reach 106 on the Plenty River, located in urban Melbourne, albeit in a widely vegetated corridor.

The Bunyip basin also had four reaches in excellent condition, including one reach (reach 22) at the headwaters of the Tarago River in reference condition. The other basins in the region had no reaches in excellent condition.

The poorest results for aquatic life were located in the Bunyip and Yarra basins and, consistent with the urban and agricultural land use, were located in cleared areas along the Yallock Creek (reaches 33 and 233) and the Yarra River (reach 2).

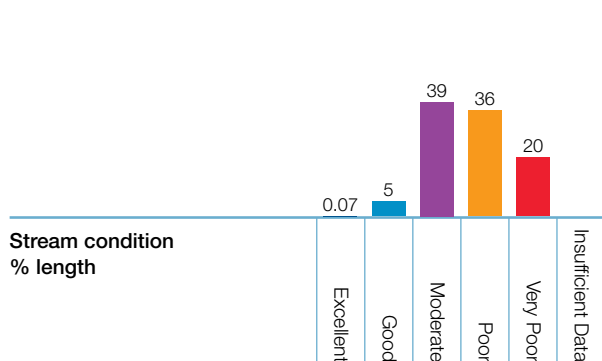


Watts River. Courtesy Alison Pouliot

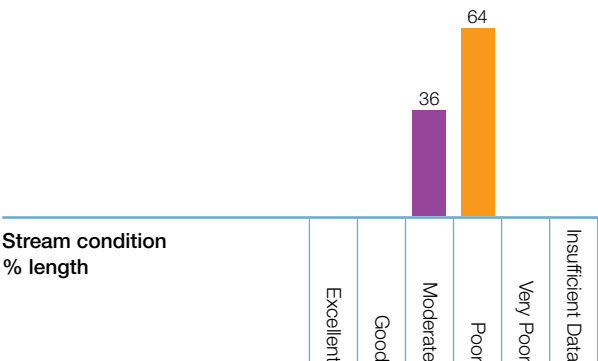


Lerderberg River at McKenzies Flat. Courtesy Alison Pouliot

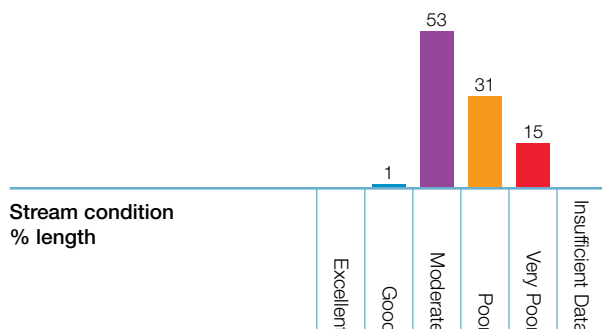
/ Port Phillip Region



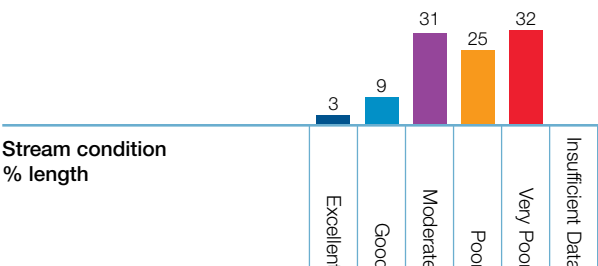
/ South Gippsland



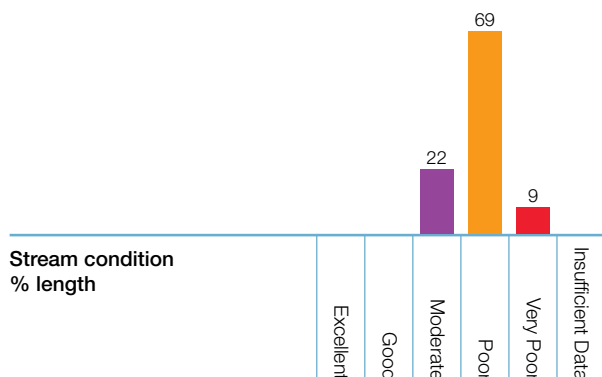
/ Bunyip



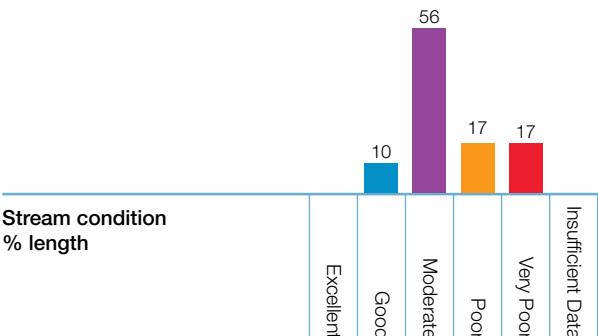
/ Yarra

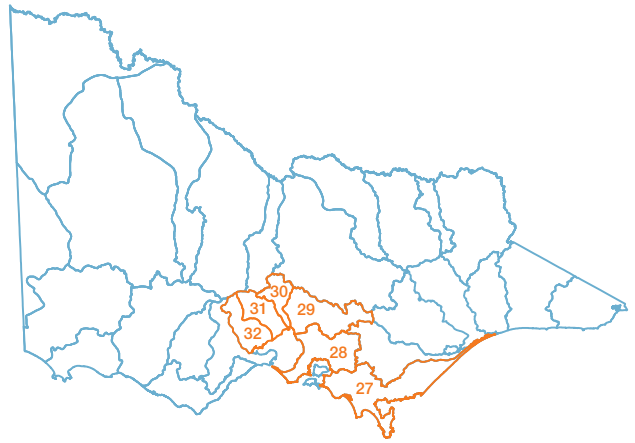


/ Maribyrnong



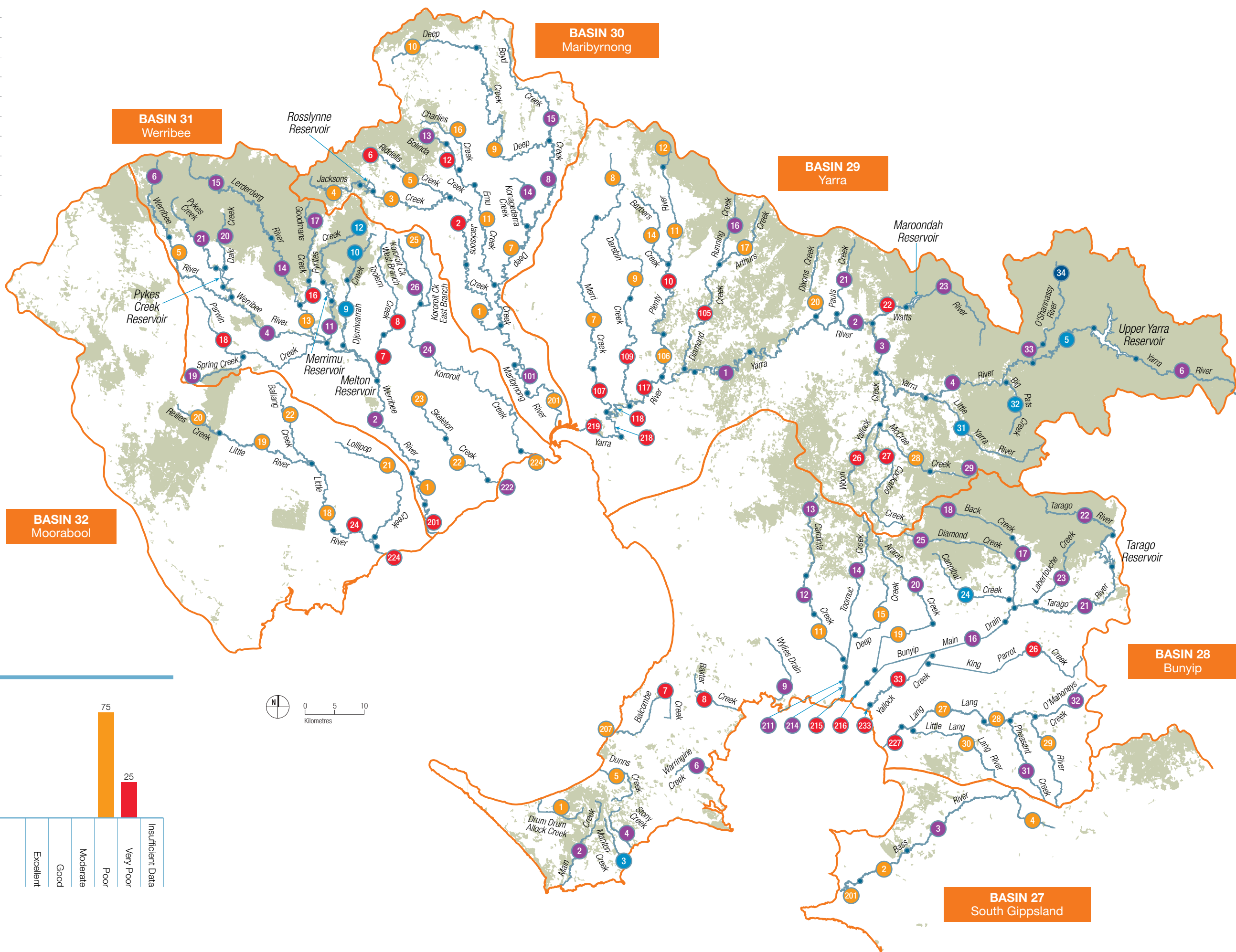
/ Werribee



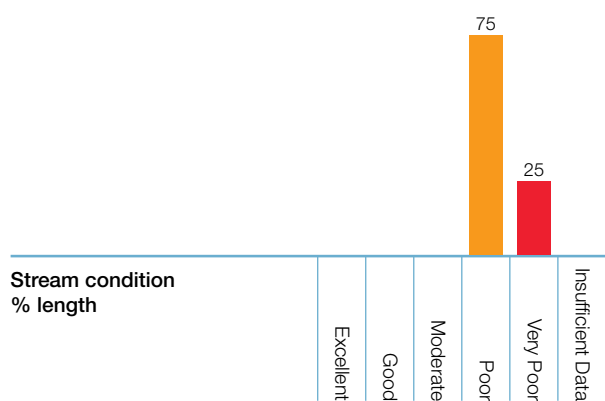


Port Phillip

- / South Gippsland – basin 27 (part)
- / Bunyip – basin 28
- / Yarra – basin 29
- / Maribyrnong – basin 30
- / Werribee – basin 31
- / Moorabool – basin 32 (part)



/ Moorabool



Index of Stream Condition

/ South Gippsland Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
27	2	16.8	Bass River ⁴	4	8	4	4	7	23	Poor
27	3	29.1	Bass River ⁴	5	6	5			25	Moderate
27	4	27.2	Bass River ^{3, 4}	5	5	6	3	5	22	Poor
27	201	8.5	Bass River ³	4	7	4	3		20	Poor

/ Bunyip Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
28	1	12.1	Drum Drum Alloc Creek ⁴	5	10	7	4	3	23	Poor
28	2	23.4	Main Creek ^{1, 4}	2	10	8	5	8	27	Moderate
28	3	9.4	Manton Creek ^{1, 4}	6	10	7			36	Good
28	4	11.5	Stony Creek ^{1, 4}	4	10	9	6	8	32	Moderate
28	5	14.7	Dunns Creek ^{1, 4}	3	9	7	3		23	Poor
28	6	9.5	Warringine Creek ^{1, 4}	5	10	7	3		26	Moderate
28	7	18.6	Balcombe Creek ⁴	2	10	7	3	4	19	VPoor
28	8	12.9	Baxter Creek ⁴		9	5	3	3	13	VPoor
28	9	15.8	Wylies Drain ^{1, 4}	8	10	4			32	Moderate
28	11	11.5	Cardinia Creek ⁴	4	7	5	4		23	Poor
28	12	10.8	Cardinia Creek ⁴	4	8	8			31	Moderate
28	13	22.4	Cardinia Creek ⁴	4	7	10	7	9	32	Moderate
28	14	30.2	Toomuc Creek ⁴	3	9	7	4	5	23	Poor
28	15	21.7	Deep Creek ⁴	3	9	5	3		20	Poor
28	16	25.2	Bunyip Main Drain ^{2, 4}	8	7	4	8		31	Moderate
28	17	17.6	Back Creek	8	5	7	3		25	Moderate
28	18	17.2	Back Creek	4	7	9		9	32	Moderate
28	19	15.3	Ararat Creek ^{1, 3, 4}	4	7	4	3		20	Poor
28	20	27.6	Ararat Creek ^{1, 3, 4}	10	9	8	3		33	Moderate
28	21	44.6	Tarago River ²	8	6	6	6	9	32	Moderate

¹ Used hydrology result from 2004 ISC ² Hydrology score based on 2011 environmental watering objectives

³ Only 1 year water quality data available ⁴ No instream woody habitat score available

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
28	22	24.3	Tarago River ³	8	7	10	1	10	29	Moderate
28	23	17.4	Labertouche Creek ³	8	7	7	4	6	29	Moderate
28	24	19.5	Cannibal Creek ^{2,4}	4	10	7			31	Moderate
28	25	23.8	Diamond Creek ³	5	7	9	3	8	27	Moderate
28	26	35.3	King Parrot Creek ^{1,3,4}	2	6	4	2		15	VPoor
28	27	27.2	Lang Lang River ⁴	3	8	4		6	22	Poor
28	28	19.5	Pheasant Creek ⁴	3	6	7	4		22	Poor
28	29	32.2	Lang Lang River	3	7	6			23	Poor
28	30	26.3	Little Lang Lang River ⁴	3	7	6			23	Poor
28	31	25.8	Pheasant Creek ⁴	2	9	6		8	26	Moderate
28	32	14.1	O'mahoney's Creek ³	2	9	5	6	8	24	Moderate
28	33	20.1	Yallock Creek ⁴		10	4	3	2	12	VPoor
28	207	2.2	Balcombe Creek ⁴	2	10	8		4	23	Poor
28	211	5.5	Cardinia Creek ^{1,4}	5	10	3			25	Moderate
28	214	6.7	Toomuc Creek ^{1,4}	3	10	5		5	24	Moderate
28	215	6.6	Deep Creek ¹	3	7	3			18	VPoor
28	216	3.7	Bunyip Main Drain ^{1,4}	2	10	5	3		19	VPoor
28	227	5.2	Lang Lang River ^{1,4}	3	6	3	3	6	18	VPoor
28	233	1.3	Yallock Creek ⁴		10	3		2	12	VPoor

¹ Used hydrology result from 2004 ISC² Hydrology score based on 2011 environmental watering objectives³ Only 1 year water quality data available⁴ No instream woody habitat score available

/ Yarra Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
29	1	22.7	Yarra River ²	8	6	9	6		33	Moderate
29	2	52.2	Yarra River	8	7	7	7	2	27	Moderate
29	3	35.2	Yarra River	8	5	6	5	8	29	Moderate
29	4	31.9	Yarra River	8	5	8	8		34	Moderate
29	5	20.0	Yarra River ²	8	7	9			39	Good
29	6	29.1	Yarra River ^{1,3}	8	6	10		10	25	Moderate
29	7	39.8	Merri Creek	6	7	4	2		20	Poor
29	8	19.1	Merri Creek	6	6	4		4	23	Poor
29	9	20.6	Darebin Creek ³	5	7	3	3		20	Poor
29	10	28.4	Plenty River	2	7	8	2		18	VPoor
29	11	21.9	Plenty River	2	7	6		6	22	Poor
29	12	3.4	Plenty River	2	7	9		3	20	Poor
29	14	21.7	Barbers Creek	1	8	6			20	Poor
29	16	15.8	Running Creek	5	8	7		4	27	Moderate
29	17	24.0	Arthurs Creek	1	8	8		4	20	Poor
29	20	19.9	Dixons Creek ³	1	9	7	4		20	Poor
29	21	19.3	Pauls Creek	1	9	8			24	Moderate
29	22	13.7	Watts River	1	6	7	4		18	VPoor
29	23	24.1	Watts River ¹	10	2	9		10	33	Moderate
29	26	47.7	Woori Yallock Creek	1	6	9	3		18	VPoor
29	27	32.1	Cockatoo Creek	1	5	9	3		17	VPoor
29	28	15.7	Mccrae Creek ³	1	6	9	5		20	Poor
29	29	9.3	Mccrae Creek	1	9	10			27	Moderate
29	31	38.6	Little Yarra River	7	8	9	6	8	36	Good
29	32	13.7	Big Pats Creek ³	8	8	10	7	10	40	Good
29	33	4.6	Oshannassy River		9	10	8		27	Moderate
29	34	19.3	Oshannassy Aqueduct ⁴	10	8	10			44	Excellent
29	105	35.9	Diamond Creek	1	9	8	4	4	19	VPoor

¹ Used hydrology result from 2004 ISC ² Hydrology score based on 2011 environmental watering objectives

³ Only 1 year water quality data available ⁴ No instream woody habitat score available

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
29	106	13.7	Plenty River	1	8	8	2	10	21	Poor
29	107	10.0	Merri Creek	1	9	6	1		14	VPoor
29	109	30.0	Darebin Creek	5	7	5	1		19	VPoor
29	117	25.6	Yarra River	1	7	7		4	19	VPoor
29	118	9.7	Yarra River	1	8	7	4		19	VPoor
29	218	7.3	Yarra River ⁴		10	6			19	VPoor
29	219	12.1	Yarra River ⁴		10	4	3		14	VPoor

/ Maribyrnong Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
30	1	49.6	Jacksons Creek	1	9	5			20	Poor
30	2	22.5	Jacksons Creek	2	7	3		6	19	VPoor
30	3	22.2	Jacksons Creek ³	3	7	4	4	5	20	Poor
30	4	20.1	Jacksons Creek	3	5	9		3	20	Poor
30	5	14.6	Riddells Creek ³	2	9	5	4	5	20	Poor
30	6	4.1	Riddells Creek	2	6	5			18	VPoor
30	7	39.1	Deep Creek	3	9	6	4		23	Poor
30	8	34.1	Deep Creek	4	9	6		8	30	Moderate
30	9	56.7	Deep Creek	4	7	4	4	6	22	Poor
30	10	20.3	Deep Creek	3	6	4		6	21	Poor
30	11	28.6	Emu Creek	3	7	3		7	21	Poor
30	12	12.3	Bolinda Creek	3	7	3		3	17	VPoor
30	13	5.6	Bolinda Creek	3	9	9		3	24	Moderate
30	14	15.9	Konagaderra Creek	8	7	3		8	29	Moderate
30	15	29.6	Boyd Creek	6	7	5		7	29	Moderate
30	16	18.6	Charlies Creek	1	8	7			21	Poor
30	101	7.2	Maribyrnong River ¹	4	9	7	3		24	Moderate
30	201	15.9	Maribyrnong River ^{1,4}	4	10	4	4		23	Poor

¹ Used hydrology result from 2004 ISC ³ Only 1 year water quality data available ⁴ No instream woody habitat score available

/ Werribee Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
31	1	8.1	Werribee River	1	9	6			20	Poor
31	2	28.0	Werribee River ²	2	9	6	6	6	24	Moderate
31	4	32.2	Werribee River	9	5	7	7		32	Moderate
31	5	28.2	Werribee River ³	9	5	4	3	4	21	Poor
31	6	25.0	Werribee River	9	5	9		4	29	Moderate
31	7	11.5	Toolern Creek	1	9	4	4		17	VPoor
31	8	25.4	Toolern Creek	1	7	4		7	19	VPoor
31	9	17.0	Djerriwarrh Creek	9	7	7			37	Good
31	10	12.9	Djerriwarrh Creek	10	6	9			38	Good
31	11	11.2	Pyrites Creek ²	9	5	7		7	32	Moderate
31	12	22.4	Pyrites Creek	9	7	9			39	Good
31	13	9.4	Lerderderg River ³	3	4	6	6		21	Poor
31	14	22.2	Lerderderg River	3	6	9		5	25	Moderate
31	15	42.2	Lerderderg River	7	7	10	7	5	33	Moderate
31	16	6.1	Goodmans Creek	1	5	5			16	VPoor
31	17	22.7	Goodmans Creek	10	7	9		3	31	Moderate
31	18	40.1	Parwan Creek	4	4	3		6	19	VPoor
31	19	15.2	Spring Creek	7	7	8		4	30	Moderate
31	20	13.2	Dale Creek ²	9	5	8		7	33	Moderate
31	21	25.5	Pykes Creek	9	6	7		5	31	Moderate
31	22	14.7	Skeleton Creek	7	7	3	4		22	Poor
31	23	11.5	Skeleton Creek	7	6	3		3	20	Poor
31	24	54.6	Kororoit Creek	8	8	3	6		27	Moderate
31	25	20.9	Kororoit Creek East Branch	7	6	3		4	22	Poor
31	26	15.0	Kororoit Creek West Branch	8	7	3		4	24	Moderate
31	201	8.2	Werribee River ⁴	1	9	3			15	VPoor
31	222	2.0	Skeleton Creek ⁴	7	10	3			29	Moderate
31	224	2.0	Kororoit Creek	8	7	3	3		21	Poor

¹ Used hydrology result from 2004 ISC ² Hydrology score based on 2011 environmental watering objectives

³ Only 1 year water quality data available ⁴ No instream woody habitat score available

/ Moorabool Basin

Basin	Reach	Reach Length (Km)	River	Hydrology	Physical Form	Streamside Zone	Water Quality	Aquatic Life	ISC Score	Condition
32	18	17.6	Little River	1	9	3	6	3	16	VPoor
32	19	27.1	Little River	1	9	5			20	Poor
32	20	13.5	Reilles Creek	1	9	9		3	21	Poor
32	21	33.8	Lollipop Creek ³	4	7	3	4		20	Poor
32	22	21.4	Balliang Creek	3	7	4			21	Poor
32	24	11.5	Little River	1	10	4			19	VPoor
32	224	2.9	Little River ⁴	1	10	3			17	VPoor

³ Only 1 year water quality data available ⁴ No instream woody habitat score available



Kororoit Creek. Courtesy Alison Pouliot