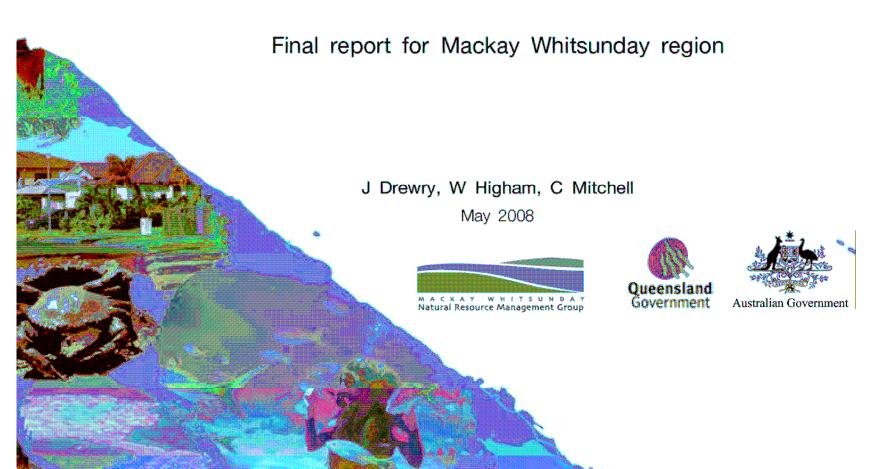
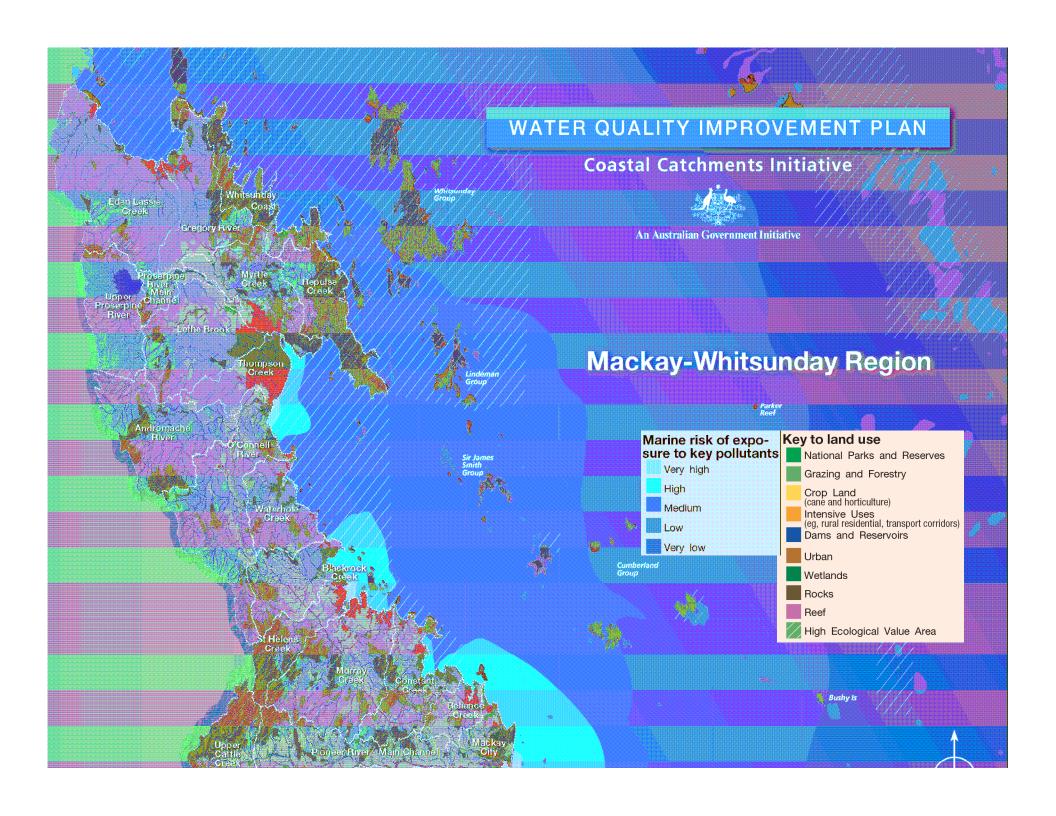


Water Quality Improvement Plan





Class	Description of practice	Farm management plan	Community and industry standard	Effect on resource condition	Effect on profitability
A	Cutting-edge practices that require further validation of environmental, social and economic costs/benefits	Yes, develops and tests innovative technology	When validated is an acceptable practice for the long term (may not be universally endorsed as feasible by industry and community)	When validated, practice likely to achieve long term resource condition goals if widely adopted	When validated, improves profitability in the medium to long term. (May reduce profitability during the transition)
В	Currently promoted practices often referred to as "Best Management Practices"	Yes, and utilises common technology	Acceptable practice for the medium term	Practice likely to achieve medium term resource condition goals if widely adopted	Improves profitability in the short to medium term
С	Common practices. Often referred to as 'Code of Practice'	Basic	Acceptable practice today but may not be acceptable in medium term	Practice unlikely to achieve acceptable resource condition goals if widely adopted	Decline of profitability in the medium to long term
D	Old practices that are superseded or unacceptable by industry and community standards	None	Superseded or unacceptable practice today	Practice likely to degrade resource condition if widely adopted	Decline of profitability in the short to medium term



		Event Load Fresh	water Qu	ality Values		Pollutant
Key Pollutant	Objective 2050	Current Condition 2007	Target 2014	% reduction CC to Target	Action	Source
Dissolved Inorganic Nitrogen Tonnes/yr	1310	2100	1550	27	L H	CIU
Particulate Nitrogen Tonnes/yr	1210	1770	1410	20	L H	CIUG
Filterable Reactive Phosphorus Tonnes/yr	130	350	250	30	L H	CIU
Particulate Phosphorus Tonnes/yr	280	650	500	23	L H	C I U G

	Ambient I	Marine Water Qua	lity Values	Event Plum	e Marine Water Q	uality Values
Key Pollutant	Objective 2050	Current Condition 2007	Target 2014	Objective 2050	Current Condition 2007	Target 2014
Dissolved Inorganic Nitrogen μg/L	1.5	2.4	1.7	3 2	51	37
Particulate Nitrogen μg/L	16	17.3	14.1	49	54	44
Filterable Reactive Phosphorus µg/L	1.5	2.2	1.5	3	8.1	5.6
Particulate Phosphorus µg/L	1.9	2.3	1.9	4	8.2	6.5

Land Use	Management Practices	Key Pollutant	2000 % Adopti 	ion 	%. 	2007 Adoption			2014 % Adopti 	on 	Effort Required	Total Cost \$ '000s
	Soil		D	С	D		ВА	D C	В	А	L ♥₩ H	15000
Cane & Horticulture	Nutrient	<u> </u>	D	C I	D	C	ВА	о с	в	A	L A	32500
	Pesticide	4	D	C I	D	С	ВА	D C	В	A	L A	32500

B Class New Urban Development	A Class New Urban Development
Description:	Description:
1. WSUD for all development	1. WSUD incorporated in all developments
2. <10% directly connected impervious surfaces to	2. Mimicking natural flows through capture, treatment and release of
stormwater	water over time
3. ESCP implemented during land development and	3. Effectively 0% directly connected impervious surfaces
construction	4. Implementation of Erosion and Sediment Control Plan (ESCP)
4. Maintenance as per ESCP	measures precedes development
5. SBSMP implemented	5. ESCP maintenance schedule adhered to and adjusted as required
6. Loads reduced by (i.e. meets the WQ targets for WQIPs etc)	6. Site Based Stormwater Management Plan (SBSMP) meets and
TN-45%, TP-60%, TSS-80%	surpasses targets
7. Maintenance as per SBSMP	7. SBSMP maintenance schedule adhered to
7. Maniteriariee as per sssmi	9. SBSMP incorporates adaptive management strategy and is
	amended as required
	8. Non-compliance is infrequent and only minor
Resource condition indicators (one or more indicators at this	Resource condition indicators (all indicators at this level):
level):	(to be determined)
(to be determined)	, in the second
Planning and reporting:	Planning and reporting:
1. Integration of development with USQMP and other Council	1. Effective integration of development with USQMP and other
processes/programs	Council processes/programs
2. Erosion and Sediment Control Plan (ESCP) prepared by	2. Site Based Stormwater Management Plan (SBSMP) prepared for all
accredited provider	sites
3. Site Based Stormwater Management Plan (SBSMP)	3. Functional and effective transition planning for ongoing
developed by accredited provider (>1 ha sites)	maintenance of stormwater management measures
4. Active transition planning for ongoing maintenance of	4. Good contingency planning incorporated in ESCP
stormwater management measures	5. Reporting on achievements and non-compliance
5. Voluntary reporting on non-compliance	
6. Staged development to reduce risk of erosion by avoiding	
exposed soil during 'wet season'	
Education:	Education:
1. Industry as a partner in education program targeting water	Industry driven engagement in water management (quality and
management	quantity)
2. Industry as a partner in education program targeting	Industry driven engagement in soil management including
nutrient and pesticides	revegetation activities
3. Industry as a partner in education program targeting soil	3. Industry driven engagement in nutrient and pesticide
erosion prevention	management
Infrastructure:	Infrastructure:
(to be determined)	(to be determined)

D Class Existing Urban Management	C Class Existing Urban Management
Description: 1. Infill development as for New Urban	Description: 1. Infill development as for New Urban
2. No mitigated flows3. >20% directly connected impervious surfaces to stormwater	2. 10-20% directly connected impervious surfaces to stormwater 3. Infill development as for New Urban
4. Infill development as for New Urban	3. Illilli development as for New Orban
Resource condition indicators (to be determined):	Resource condition indicators (to be determined):
Planning and reporting: 1. Urban Stormwater Quality Management Plan (USQMP) not developed	Planning and reporting: 1. USQMP being developed
Education: 1. None	Education: 1. Some educational resources available
Infrastructure: (to be determined)	Infrastructure: (to be determined)
B Class Existing Urban Management	A Class Existing Urban Management
Description: 1. Infill development as for New Urban	Description: 1. Infill development as for New Urban
WSUD for redevelopment at micro scale/property scale 3. <10% directly connected impervious surfaces to stormwater	2. WSUD incorporated in all redevelopment 3. Mimicking natural flows through capture, treatment and release of water over time 4. Effectively 0% directly connected impervious surfaces 5. Nutrient and pesticide levels entering waterways mimic natural levels
2. WSUD for redevelopment at micro scale/property scale	2. WSUD incorporated in all redevelopment 3. Mimicking natural flows through capture, treatment and release of water over time 4. Effectively 0% directly connected impervious surfaces 5. Nutrient and pesticide levels entering waterways mimic
2. WSUD for redevelopment at micro scale/property scale 3. <10% directly connected impervious surfaces to stormwater Resource condition indicators	2. WSUD incorporated in all redevelopment 3. Mimicking natural flows through capture, treatment and release of water over time 4. Effectively 0% directly connected impervious surfaces 5. Nutrient and pesticide levels entering waterways mimic natural levels
2. WSUD for redevelopment at micro scale/property scale 3. <10% directly connected impervious surfaces to stormwater Resource condition indicators (to be determined): Planning and reporting:	2. WSUD incorporated in all redevelopment 3. Mimicking natural flows through capture, treatment and release of water over time 4. Effectively 0% directly connected impervious surfaces 5. Nutrient and pesticide levels entering waterways mimic natural levels Resource condition indicators (to be determined): Planning and reporting: 1. Effective USQMP being implemented in conjunction with industry and community 2. Presence of a strategic program for retrofitting of devices (in
2. WSUD for redevelopment at micro scale/property scale 3. <10% directly connected impervious surfaces to stormwater Resource condition indicators (to be determined): Planning and reporting: 1. USQMP developed and being implemented Education: 1. Community total water cycle water management education	2. WSUD incorporated in all redevelopment 3. Mimicking natural flows through capture, treatment and release of water over time 4. Effectively 0% directly connected impervious surfaces 5. Nutrient and pesticide levels entering waterways mimic natural levels Resource condition indicators (to be determined): Planning and reporting: 1. Effective USQMP being implemented in conjunction with industry and community 2. Presence of a strategic program for retrofitting of devices (in USQMP) Education: 1. Active community engagement in total water cycle water

ESCP: Erosion sediment control plan SBSMP: Site based stormwater management plan in accordance with EPA guidelines USQMP: Urban stormwater quality management plan in accordance with Council and EPA guidelines WSUD: Water Sensitive Urban Design