The Dirty Truth

(The Stormwater Pollution Awareness Campaign)

ENVIRONMENTAL HEALTH AUSTRALIA NATIONAL CONFERENCE HOBART, 03 NOVEMBER 2016,
Diane Ross, CEO

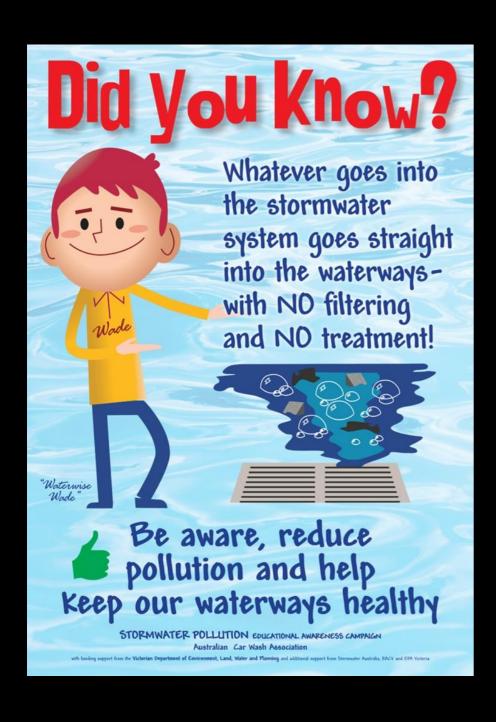


WHY WE'RE HERE

To help the public better understand the stormwater system.

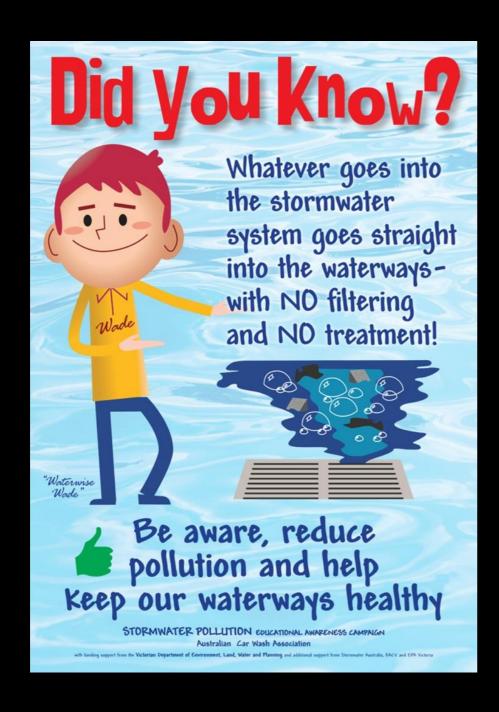
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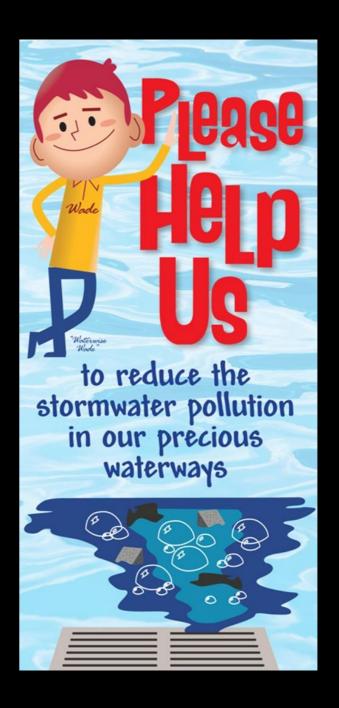
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STORMWATER POLLUTION CALCULATOR

Stormwater Pollution Calculator

Home Car Washing

Change City and Population in yellow for results for each urban area

Non Drought Drought City Australia 21,507,700 Population people Vehicle Ownership 0.6 vehicles per person - source ABS, 2011 Cars in Community 12,904,620 20.12 washes per annum per car - source ACWA Survey, 2008 Car Washing Frequency 10.4 Car Washes per Annum 134,208,048 259,640,954 total washes per annum 30% always or mostly use commercial - source ACWA Survey 2008 Commercial Car Wash Use 48% 64,419,863 77,892,286 washes per annum Commercial Car Washes per Annum Home Car Wash Use 52% 69,788,185 181,748,668 washes per annum Home Car Washes per Annum 70% Higher in inner-urban areas, lower in rural areas. Proportion that drain to stormwater 48,851,729 127,224,068 washes per annum Washes that drain to stormwater 105 105 litres per wash - source ACWA survey 2005 Volume of water per wash 13.36 Gigalitres 13,358,527,104 litres 5,129,431,595 Litres to stormwater

Canital Cit	Donulation	2014
Capital City	Population	- 201

Australia	21,507,700			
Sydney	4,391,700			
Melbourne	4,000,000			
Brisbane	2,066,000			
SE Queensland	2,880,600 507,700 1,728,900			
Gold Coast				
Perth				
Adelaide	1,225,200			
Canberra	356,600			
Hobart	211,700			
Darwin	120,600			

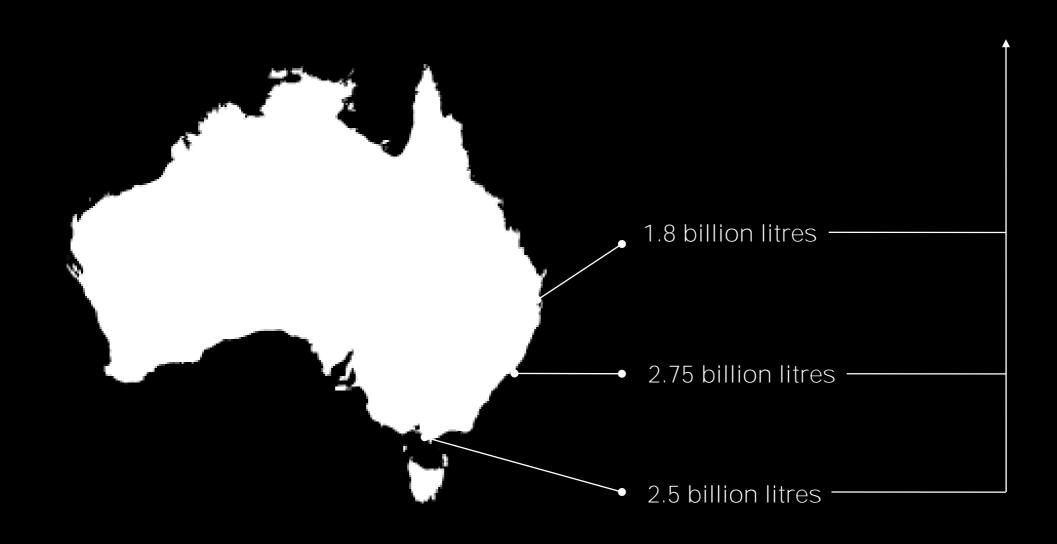
					Drought Conditions		Non Drought Conditions		
Pollution Type	Parameter	Average Concentration of Wash Water	ANZECC Guidelines 95% in Marine Waters	Volume per Wash	Load per Wash	Washes to Stormwater	Annual Load to Stormwater	Washes to Stormwater	Annual Load to Stormwater
	Suspended Solids	200 mg/L	20 mg/L	105 L	21.0 g	48,851,729 /a	1,026 t/a	127,224,068 /a	2,672 t/a
	Turbidity (NTU)	80 NTU	5 NTU	105 L	1				
Heavy Metals	Copper	300 mg/L	1.3 mg/L	105 L	31.5 mg	48,851,729 /a	1,539 kg/a	127,224,068 /a	4,008 kg/a
	Lead	20 mg/L	4 mg/L	105 L	2.1 mg	48,851,729 /a	103 kg/a	127,224,068 /a	267 kg/a
	Zinc	500 mg/L	15 mg/L	105 L	52.5 mg	48,851,729 /a	2,565 kg/a	127,224,068 /a	6,679 kg/a
Organic Pollutants	Total Organic Carbon	59 mg/L	10 mg/L	105 L	6.2 g	48,851,729 /a	303 t/a	127,224,068 /a	788 t/a
	Hydrocarbons	5 mg/L		105 L	0.5 g	48,851,729 /a	25,647 kg/a	127,224,068 /a	66,793 kg/a
	Surfactants	27 mg/L		105 L	2.8 g	48,851,729 /a	138,495 kg/a	127,224,068 /a	360,680 kg/a

Average concentrations sourced from ACWA / Smartwater Research, 2008.

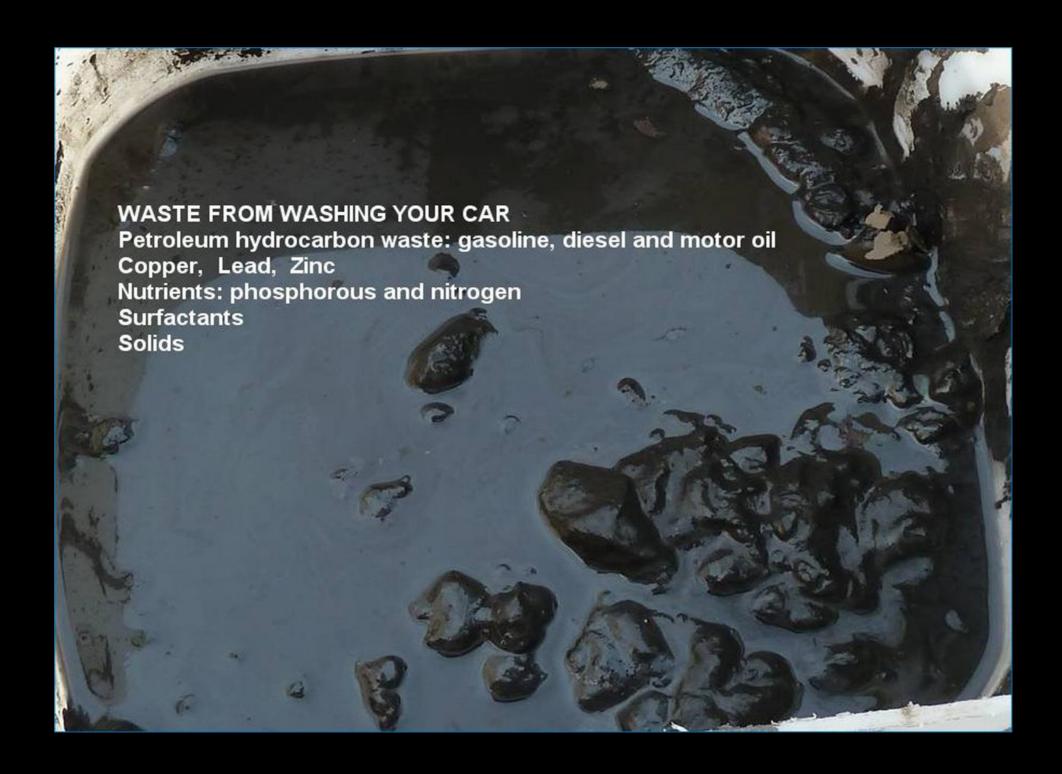
Numbers in blue under ANZECC Guidelines are typical water quality parameters and do not appear in ANZECC Guidelines

STORMWATER POLLUTION RESEARCH RESULTS

13.3 billion litres estimated contamination from home car washing in Australia.



WASTE WATER CONTAMINANTS



Too many bacteria in the water can cause fish and other living organisms to die.























STORMWATER POLLUTION EDUCATIONAL AWARENESS CAMPAIGN

THEDIRTYTRUTH.COM.AU

HOME RESOURCES FAQS USEFUL LINKS CONTACT

STORMWATER POLLUTION EDUCATIONAL AWARENESS CAMPAIGN

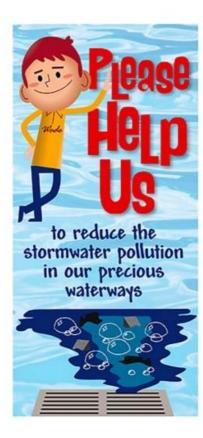
Do you know what happens to water and rubbish that goes down the gullies and drains in our streets and in our gardens?

Are you aware that the stormwater pipe network is quite separate from the sewer system?

The stormwater system is only designed to collect reasonably clean rain water and there is no filtering or treatment.

Whatever goes into these pipes flows straight into our waterways and the sea shore.

If you do anything that causes pollutants of any sort to contaminate the water that flows into the stormwater system, you are directly contaminating your local creeks and rivers, and through them the lakes and the sea.



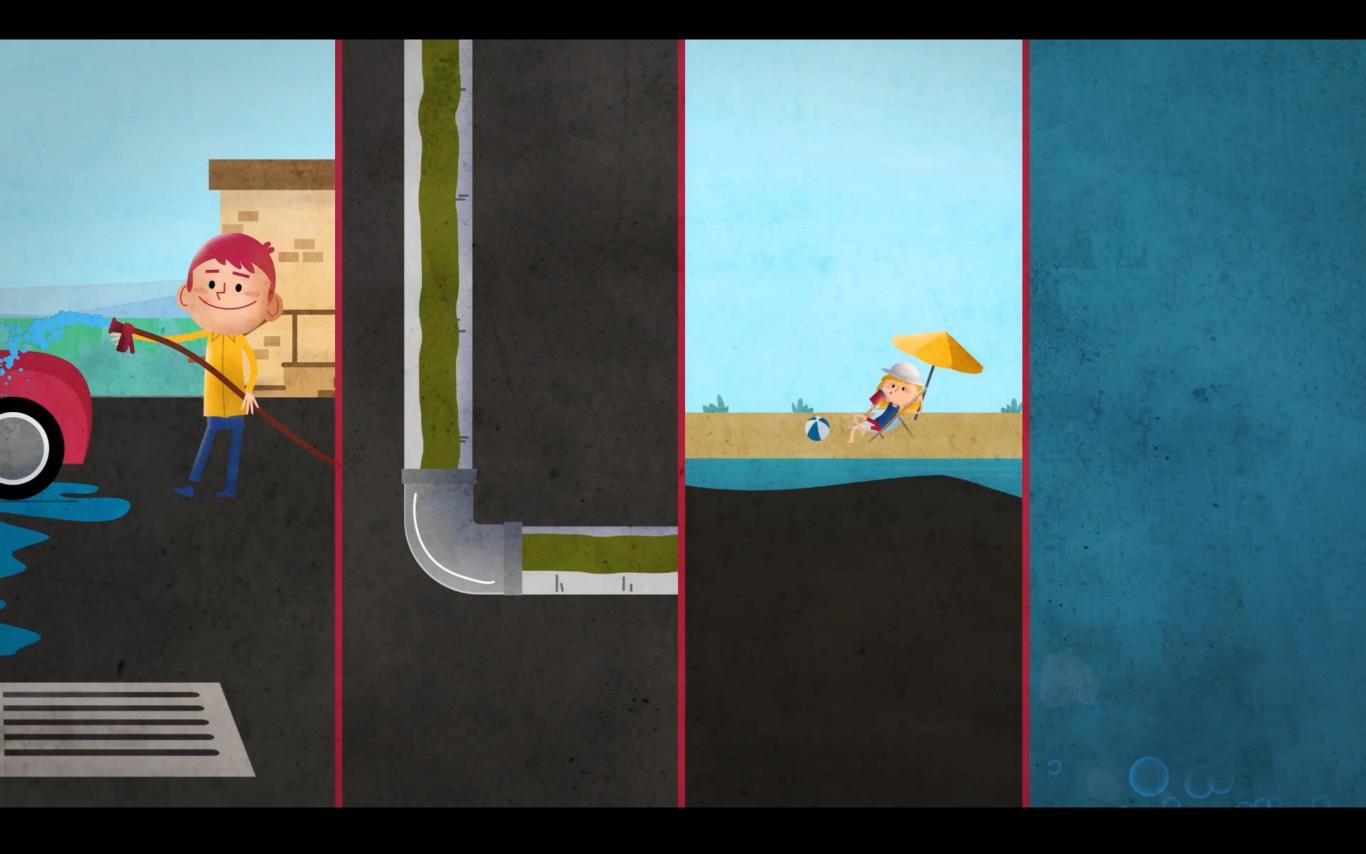
WATERWISE WADE

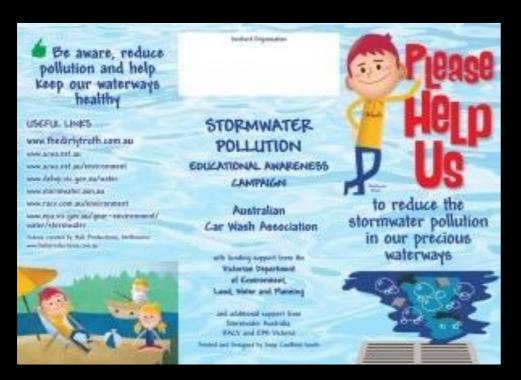


THE DIRTY TRUTH – CAR WASHING



THE DIRTY TUTH – OTHER HOME ACTIVITIES



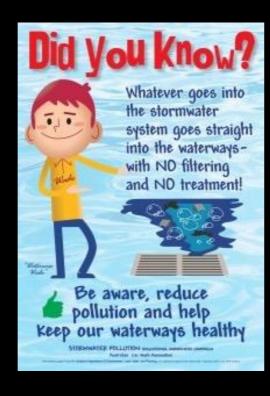




BROCHURE

POSTERS







CAR STICKERS

Resources available at www.thedirtytruth.com.au



To show people in your communities how to reduce stormwater pollution in our precious waterways...

Thank you for listening.

Diane Ross 0417 565 104