

e vibe

ENVIRONMENTAL EDUCATION NEWSLETTER



Whakatepea te kō, kia kotahi We're in it together 09 366 2000 www.arc.govt.nz

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From the editor

This issue of E Vibe comes to you with the whiff of summer finally in the air! The sun is shining and the Americas Cup boats are into full swing or full sail! Time to hit the magnificent beaches in the Auckland region. Time for a little swimming and lazing on the beach.

But beware! Do you know what sort of water you are swimming in? Are we poisoning our paradise?

Check out this issue to find out how our streams and beaches get polluted. Make a pledge to make a difference this summer – start by washing your car on the grass!

Meanwhile – don't forget to join The Big Clean Up – be part of 40,000 people who have signed up to make a difference!

Hilary Chidlow
Environmental Education
Co-ordinator
Auckland Regional Council

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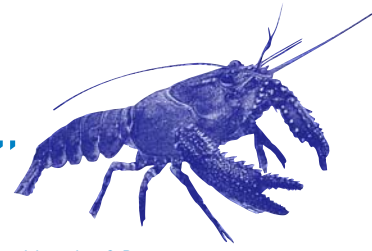
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Reducing Our Rubbish

Send contributions by May 1 to:
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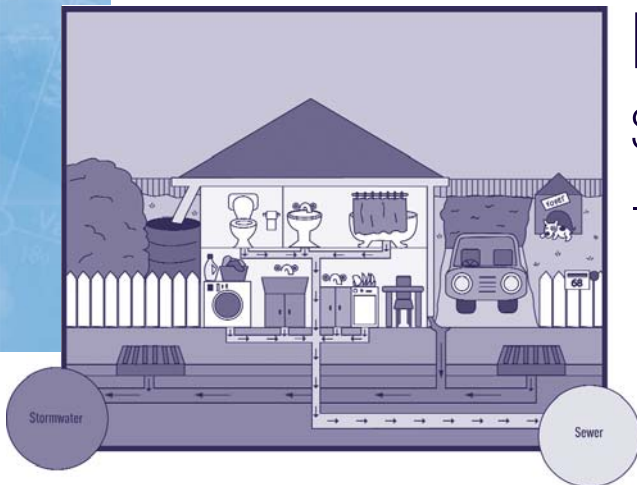
“Drop it on the street & you drop it in the sea”



Around 70% of the Auckland region is water. 3,320 km of coastline surround us and 10,000km of streams spread like veins through our land. Unfortunately, many of our urban streams and coasts are contaminated by stormwater pollution from our roads, our driveways, our homes and our industries. Even sewage. We are poisoning our paradise.

Do you value our streams, lakes and beaches? Do you enjoy these places with friends and family? Do you value the kai moana these places provide? Do you find relaxation in the beauty of our surroundings? Do you value them enough to protect them from stormwater pollution?

Over the summer The Auckland Regional Council's Big Clean Up campaign has been focussing on stormwater pollution. The 'Save Your Drain For Rain' campaign aims to make the connection between how stormwater pollution occurs and what each of us can do to protect and save our waterways. 50% of Aucklanders don't realise that stormwater drains were built to take rainwater to the nearest natural waterway to prevent flooding. They don't go via a treatment plant. And so they carry everything washed from the roads, paths and driveways of our city untreated and unfiltered into the streams, lakes and seas that surround us.



Did you know there are two sets of drains under your feet?

- sanitary sewers and stormwater pipes

Sanitary sewers take the waste from inside our houses – kitchens, toilets, bathrooms and laundries – to the wastewater/sewage treatment plant. Anything that flows down driveways, off roads and down gutters goes directly into stormwater drains and ends up untreated in our streams, harbours and beaches.

So where's the problem?

As we build houses, roads and other buildings we increase the percentage of land sealed by concrete and tarseal. These are 'impermeable surfaces' that rain can't soak through. When it rains water rushes off these surfaces into stormwater drains, carrying dirt, oil and grime in its way and flooding our small streams.

You don't see this same water flow in forested or vegetated areas, because there the rain soaks into groundwater and slowly seeps into streams, flowing into the sea.

How does stormwater get polluted?

The main problem is that many other things apart from rainwater end up going down our stormwater drains. This happens in two ways:

1 'Non point source' pollution - Rain generally flows over roads, carparks, yards and other surfaces before it gets to the stormwater drains – on the way it picks up contaminants such as oil, diesel, petrol, sediment, litter and heavy metals such as zinc from car tyres and copper from brake linings. These pollutants then end up untreated in our streams, harbours and at our beaches.

2 'Point source' pollution – the second way our stormwater system gets polluted is from direct discharges – such as oil or chemical spills, paint brushes being washed over stormwater drains, and vehicles being washed on driveways - where the soapy water washes straight into a stormwater drain.



The SCary facts

Whenever we let something other than rainwater flow down a stormwater drain we are adding to stormwater pollution which litters our beaches, contaminates our streams, kills wildlife, suffocates plants and destroys our natural environment. We need you to join the 'Save Your Drain For Rain' campaign and help make sure only clean rainwater enters our stormwater drains and flows into our waterways.

Every year:

- Our harbours fill up with around 500,000 litres of detergent from people washing their vehicles in the street.
- 25,000,000 or more cigarette butts wash into the sea amongst other litter debris.
- More than 1,000 native fish are killed from pollutants being tipped or washed into stormwater drains.
- Last year alone ten city streams were poisoned from stormwater pollution. These streams are now dead - unable to support insects, fish or other life. They will take decades to recover.
- Some stormwater systems are contaminated by sewage. Dilute sewage floods into our harbours and flows on our beaches. In some areas sewage contamination happens every time it rains.
- About 9 million litres of lubrication oil is unaccounted for each year in the Auckland region – which probably means we end up swimming in it.

Stormwater research

A large number of studies have been conducted in Auckland, NZ and overseas into the general quality and effects of stormwater. Some general conclusions are:



- Pollutant types and levels in Auckland stormwater are similar to those found in many big cities.
- The contaminants of most concern are suspended solids, nutrients, a range of heavy metals, persistent organic chemicals and bacteria.
- If we continue to pollute stormwater like we are now, the rate of sediment contamination will accelerate with urban expansion, and the extent of the affected areas will increase.
- Most pollutants are bound to solid matter like vegetation. Once they reach the harbour, the solids and attached pollutants settle and are incorporated into bottom sediments.

The main offenders and the damage they cause!

fuel: can damage fish gills so they can't breathe, as well as poisoning animals and burning plants. Fuels also contain cancer-causing agents that accumulate in fish and shellfish.

oil: one litre of oil can taint 6000m³ and cover 100m² of water – oiling birds and creating a barrier preventing oxygen from getting into the water. Toxic substances in waste oils like metals, sulphur and acids can dissolve into water and cause serious harm to aquatic creatures.

paint & ink: can be poisonous to creatures that come into contact with them. They also prevent light getting into the water, which makes it difficult for plants to get the sunlight/energy they need to live and for animals to find food.

food & drink: as they rot and decay in the water they use up all the oxygen, suffocating fish and insects.

detergents: even those claiming to be 'bio-degradable' or 'environmentally friendly' can be toxic to fish and use the oxygen in the water as they break down.

sewage: nutrients such as phosphates, nitrates and those contained in domestic sewage promote the uncontrolled growth of plant and bacteria populations within streams. Waterways can be choked with weeds or depleted of oxygen by unnaturally high populations of micro-organisms.



The main offenders and the damage they cause! continued...

sediment: you might think it is "just good clean dirt" but clay and silt a major pollutants in the Auckland region. When they are washed off construction sites and subdivisions they smother stream beds and choke the creatures living there. Sediment is the main cause of shellfish losses in our estuaries.

corrosives: including battery acid, vinegar, some cleaning compounds, acetic acid and concrete waste can damage fish; especially sensitive tissues such as eyes, gills and skin, making it impossible for juvenile creatures to survive. Adult fish and insects are burned or killed. More streams are destroyed and everything in them killed by concrete wastes than any other contaminant – every year.

Ideas on how you can help

- Take your car to the car wash where the wash water goes to the wastewater treatment plant, or wash your car on the grass to prevent the dirty water running into the stormwater drain. If you join The Big Clean Up you get discounts on car washes from BP.
- If you are painting, use water based paints where possible and wash your brushes at an inside sink or over the grass or garden. If using oil-based paints wash brushes in a container with thinners – then filter the thinners and re-use.
- Keep your vehicles properly tuned and free of oil leaks. Remember, oil dripping onto the road will end up in the sea. Big Clean Up members get 10% discount on tune-ups.
- Take your household hazardous waste (e.g. left over paint, thinners and chemicals such as garden sprays etc) to the Hazmobile. Visit www.hazmobile.govt.nz for a timetable of its drop off locations or call your local council to find out when it will be in your area.
- If you are building a house or doing any construction at your house, tell your builder to use sediment control to prevent the dirt washing into the stormwater. You can get information about erosion and sediment control for small sites by calling Enviroline 366 2000.

Common urban myths

1. "But it's only a little bit"

There are many people discharging 'little bits' and this adds up to a lot!

2. "Nothing lives in that grotty little stream anyway"

Many people consider our small streams so grubby and insignificant that they don't need to be protected. 90% of our streams are so small that you could jump over them!

But you would be amazed at just how much life exists in our small streams. There are about 10,000km of streams in the region. These tiny rivers are home to precious plants, algae, insects, shrimps, snails and freshwater crayfish (koura) as well as sixteen different native fish like eels, bullies and kokopu. Many birds also need these streams to survive.

Further downstream are our estuaries, home to cockles, shrimp, crabs, worms, snails and oysters. They provide food for many of our important fisheries.

Estuaries are the nursery grounds for flounder, grey mullet, trevally, shark, dogfish, mackerel, kahawai, kingfish and snapper.

3. "Outta sight, outta mind!"

It may be off your backyard but it's polluting our water playgrounds and it may just come back to haunt you!

4. "Everyone else is doing that same thing"

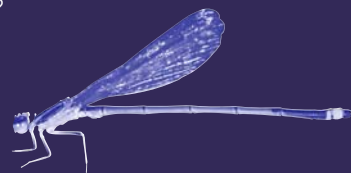
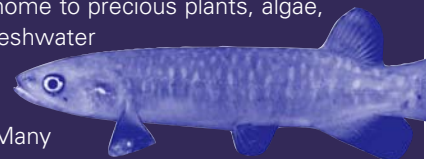
So does that mean you have to contribute to the overall degradation of our environment?

5. "But it's biodegradable!"

Even biodegradable products consume oxygen as they break down, leaving less oxygen for stream life.

6. "I've been doing it this way for years"

Well just like technology our understanding of the environment we live in is forever improving, therefore we need to grow with it.



Stormwater & sanitary sewers don't mix!

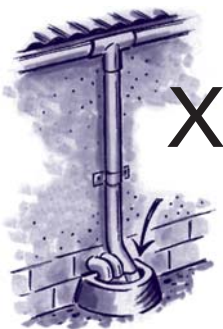
Know how your drains work and make sure they are properly connected. Take a look around your house – use each drain for the right purpose:

- Only uncontaminated rainwater goes down your stormwater grates
- Only sewage and other household waste goes into the sanitary sewer

If your drains are wrongly connected call a plumber to have them fixed.

If stormwater gets into the sanitary sewer it floods out the sewers and the pump stations which pump the sewage/wastewater to the treatment plant, causing overflows of untreated wastewater onto properties and into streams.

Sanitary sewers are built 5-6 times bigger than is needed for the sewage from the households connected – but the rainfall off one house's roof can be as much as the sewage flows of 150 extra people! So even a few downpipes wrongly connected to the sanitary sewer or a few gully traps letting rain get in can cause massive sewer overflows.



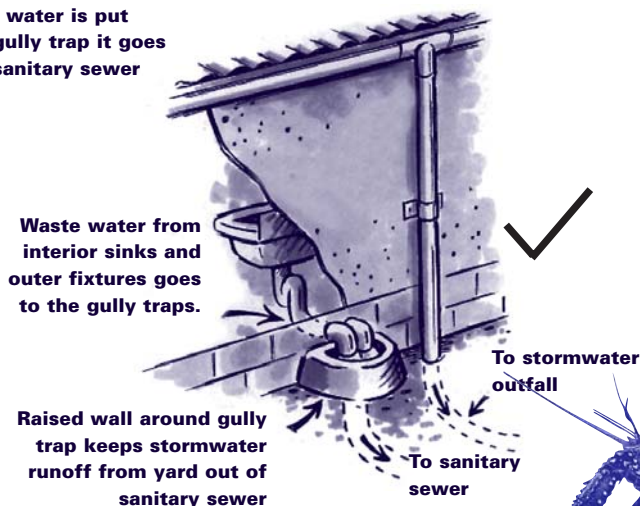
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X

X If the gully trap does not have a raised wall, surface water from the yard will flow into the sanitary sewer.

X If roof water is put into the gully trap it goes into the sanitary sewer



Waste water from interior sinks and outer fixtures goes to the gully traps.

Raised wall around gully trap keeps stormwater runoff from yard out of sanitary sewer

To stormwater outfall

To sanitary sewer

Join Up!



Joining the NZAEE (Auckland Branch) offers these exclusive member benefits:

- PRIORITY bookings for NZAEE Workshops and Seminars
- DISCOUNTS for NZAEE Seminars
- YOUR OWN personal copy of E vibe News
- PLUS a host of other benefits!

NZAEE aims to provide a network and framework to promote environmental education initiatives in New Zealand; and to encourage and promote environmental education training for formal and informal sectors.

Membership Application Form

Student	\$15
Individual	\$25
School/Non-profit	\$30
Corporate	\$50

NZAEE is not a GST registered organisation.

Please find enclosed \$ payment for subscription.

Name _____

Organisation _____

Address _____

Email _____

Complete and cut off this membership form. Make cheques payable to NZAEE.

Post to: NZAEE Auckland Branch
c/o Jami Williams
Auckland Regional Council
Private Bag 92-012
Auckland



POLLUTION busters!

When we jump in the Pollution Control van to go to a callout, we never know what we're going to find. A typical day out with the ARC Pollution Control Team can see us cleaning up an oil discharge from a spill or car accident; a sediment discharge from an earthworks site due to rain; a colourful stream as a result of a paint discharge from a paint spill or someone washing their paint brushes in the stormwater catchpit; and foam in a stream caused by people washing their cars on the road.

And as if cleaning up the mess isn't enough challenge, we also try to educate these polluters while we're there – to stop them polluting our waterways again!



(LEFT TO RIGHT) Jeanette Hulls, Jane Puddephat, Caroline Girling, Michael Lindgreen, Allan Wright (driver), & Campbell Sturrock

Pollution Busters: WHO ARE WE?

The Pollution Control Team consists of nine urban, and three rural pollution control officers, dedicated to looking after Auckland's waterways. The team's mission (and passion!) is to protect the Auckland region's environment, through both the proactive and reactive programmes we run.

The role of pollution control officers as educators is becoming more and more important. For this reason, we've developed a number of proactive programmes that enable us to move further away from the 'ambulance at the bottom of the cliff' role, and more towards 'prevention is better than cure'.

Our proactive programmes include:

- **The Industrial Pollution Prevention Programme** – where all companies within a known 'problem' industry are checked, and any problems fixed
- **Area Blitzes** – we check every company in an area for problems and leave education materials
- **Target Catchment Surveys** – we check 'hot-spot' pollution points regularly, and track down causes of any pollution we find
- **Industry Group Projects** – we team up with companies or industries to develop environmental codes of practice for the whole industry to follow.

Through these programmes we try to identify actual and potential pollution problems and then work with the owner and staff to reduce the impact of their activities on the environment.

Pollution Busters: CLEANING UP

We also operate the **Water Pollution Hotline 377 3107**: a 24 hour, 7 day a week public telephone service to take reports and complaints about stormwater and natural water pollution. We respond to approximately 1000 legitimate cases of pollution per year, and this number is rapidly rising due to the ARC's Big Clean Up Campaign.



Pollution Busters: WE NEED MORE EYES & EARS

We answer calls day and night from concerned Auckland residents about water pollution – but we want more!

You don't have to be an expert to detect water pollution – all you need to use are -

your eyes, your nose and your commonsense.

If you see a stream or beach that smells funny, is a strange colour, has foam floating on top, or has dead things in it, please call:

Water Pollution Hotline: (09) 377 3107 (24 hours, 7 days).

And remember to spread the word – only rain should go down a stormwater drain!



the GREAT DRAIN game

The Great Drain Game is a fun initiative developed by the ARC's Pollution Control Team. The game consists of life-sized models representing two different kinds of drains – sanitary and stormwater. There's a stormwater catchpit, kitchen sink, toilet – and even a mini Hazmobile truck.

The aim of the game is for the player to get rid of the household pollutant they are given in the appropriate manner – for example should soapy dishwasher go down the sanitary sewer or the stormwater system?

This game emphasises the fact that stormwater drains are only for rain – in a fun and educational way. So far the Great Drain Game has been played by over 10,000 people, at schools, eco festivals and shopping malls. Look out for it at an event near you!



Fundraising carwashes:

where you do them counts!

Fundraising carwashes are a traditional activity of many schools and other community groups – a great way to earn money in a safe environment.

The ARC asks that when you do a fundraising carwash, please consider the health of the local natural environment as well.

Where the cars are washed makes a big difference to whether you pollute local waterways.

Any vehicle that is washed on hard surfaces like school playgrounds, shopping centre carparks or roads, where the soapy water washes into a stormwater drain, will carry the detergents and vehicle grime untreated into the local stream and eventually to our harbours.

Biodegradable detergent starts to break down when it is mixed with water – and as it degrades, it sucks oxygen out of stream water, suffocating fish and other aquatic animals.



Take your car to a car wash where the waste water goes to the treatment plant.

Heavy metals and oils in car grime are toxic to marine animals. Levels of zinc and copper (found in tyres and brakes) and carcinogenic hydrocarbons from fuel, are steadily rising in our harbours. Eventually our waterways will be too polluted for fish to live in.

The ARC's Big Clean Up programme is campaigning for Aucklanders to wash their cars on grass where detergent and grime can sink into the ground, or to go to a car-wash where wastewater is properly collected and disposed of.

Fundraising carwashes create a far bigger volume of waste water than isolated people. The impact of a fundraiser on the local stream can be serious. Also, discharging contaminants to the environment is illegal under the Resource Management Act.



Washing cars in the driveway or on the side of the road leads to stormwater pollution!

How to do a fundraising carwash without harming the environment:

BEST OPTION: Wash the cars on permeable surfaces, such as grassy areas or permeable paving, making sure excess washwater doesn't run into the stormwater system.

SECOND BEST: Divert washwater from the sealed area to a grassed or garden area.

THIRD: Contain the washwater by blocking the outlet of the stormwater cesspit that the washwater flows to, and then bucket the water out on grassy or garden areas.

IF ALL ELSE FAILS: You can hire a submersible pump to pump washwater out of a blocked stormwater cesspit.

MORE ADVICE Call the ARC pollution control team for more advice and help in finding practical solutions.

Call Enviroline 09 366 2000.



school

“Poison the sea poison me!”



Grate art competition

Do you want to do something for your environment?

source: ARC City Issues: Stormwater

By entering this competition you can help get the message about stormwater drains into the community (and have fun at the same time!)

So what is the message about stormwater drains?

Nothing but clean rainwater should run into stormwater drains. If chemicals and wastes such as oil, paint, detergents or even food flow down stormwater drains they run directly into streams or the sea untreated – where you like to swim!

They can kill fish, shellfish, insects, plants and other living things.



Stormwater drains should only drain rain!

What do you have to do?

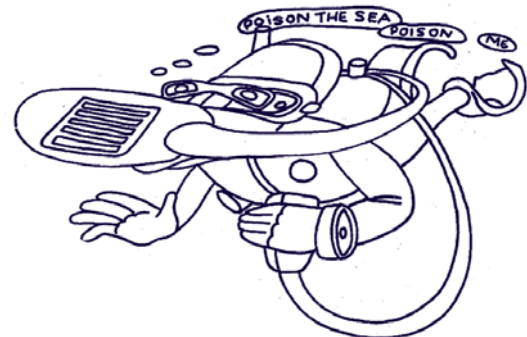
- Create a design for a stormwater grate using a real creature or person (some examples are shown here).
- You must include the logo “Poison the Sea, Poison Me”
- ARC will accept 3 entries per school and will choose a winning design from each school.

Your design should be?

- Eye catching
- Appealing to all ages
- Based on a real creature (why not choose one that lives in our streams, sea or harbours).

The Prizes

- All winning designs will receive a certificate.
- For the most outstanding entries (5 per year) an artist will come to your school and with you to paint a real stormwater grate. ARC will provide the paint.



ARC will help you educate the wider community about stormwater pollution by helping you to gain permission to paint your design at a local shopping mall, or in the car park of your local supermarket.

Send entries to:

Environmental Education Co-ordinator
Auckland Regional Council
Private Bag 92 012
Auckland

So you say you love that car - think again!

Cars are really quick and convenient

(unless they break down!)

Cars are so comfortable (most of the time)

Cars are a great place to daydream

(unless you're driving!)

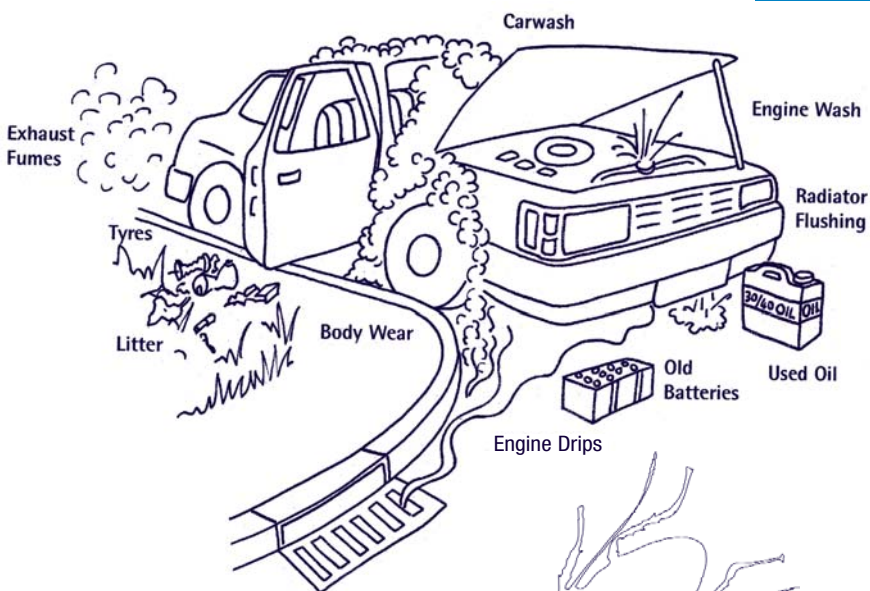
Cars are a major source of stormwater pollution

(and that's a fact)



WHAT? Yep. In fact, Auckland's motor vehicles are THE GREATEST SOURCE OF STORMWATER POLLUTION. They have become a serious problem!

TAKE A LOOK HOW A CAR CAN CAUSE WATER POLLUTION. THINK long and hard about this:



When these pollutants get down a stormwater grate they come out untreated in a stream and eventually in a harbour.

Everyone needs to think about ways of reducing stormwater pollution caused by cars - everyone, EVEN if you don't personally own and drive a car. You need to THINK about what you can do and then you need to turn your thoughts into ACTION!

What can you do to help reduce stormwater pollution caused by cars?

START BY MAKING A LIST

of things you can do directly and indirectly. Confused? Here are a few ideas to get you started.

- Walk, jog, bike, skateboard, rollerblade places instead of being taken by car.
- Encourage other family to use the car less. Remind them about carpooling and using public transport.
- Design and display a poster in the local shops reminding people to wash their car on the grass or to go to a car wash place.
- Talk to car owners about having their car tuned and serviced regularly. (see the Air Quality part of 'City Issues' to find out why this will help).
- Carry out a family/ neighbourhood/ local community campaign that will help educate car owners about things like:
 - the need to check and fix oil leaks
 - recycling oil and batteries
 - disposing of unwanted oil in the right place!

When you have completed the list make a plan about how you will carry out your action(s). The Environmental Action Planner might help you to get organised with this.

America's Cup syndicates join

The Big Clean Up

One World racing

Seven of the America's Cup syndicates signed up to the Auckland Regional Council's environmental action campaign, The Big Clean Up, to help care for our environment. The syndicates that are on board are:

Team New Zealand	Mascalzone Latino
OneWorld Challenge	Le Defi Areva
Oracle BMW Racing	Alinghi Challenge.
GBR Challenge	



The yachties are following an action plan tailored to their lifestyle:

1. **Reduce, reuse, recycle** – setting up recycling on their bases to ensure less rubbish ends up in landfill.
2. **Save our drains for rain** – to prevent contaminated stormwater entering the harbour from their bases.
3. **Stow it, don't throw it** – rubbish from racing and support boats is not thrown into the harbour.

"Everyone should get behind this important programme that will make this a better place to live, work, play – and race!" said OneWorld executive director, Bob Ratcliffe. "Helping with The Big Clean Up is the right thing to do. OneWorld is doing its part to keep New Zealand clean."

"The Big Clean Up is a wonderful initiative. It is a simple but effective way for us to contribute to the environment during our stay here in Auckland. You have a beautiful region and it deserves to stay that way – no matter how many America's Cups you end up hosting!!" said General Manager of Le Defi Areva, Xavier de Lesquen.

"Mascalzone Latino has joined The Big Clean Up because we support the Auckland Regional Council's effort to keep pollution out of the harbour. It is a great harbour and we encourage all of Auckland to help by also joining The Big Clean Up," said Shannon Falcone, Mascalzone Latino's spokesman.

The Big Clean Up is a campaign designed for households. It asks people to join up and then provides simple pro-environmental actions that they can take.

The Big Clean Up focus for this summer is "Save the Drain for Rain". So it seemed appropriate to get the Americas Cup syndicates onboard.

The Big Clean Up has given the syndicates simple, practical things to do to look after the environment, just as it gives Aucklanders simple, practical actions we can do around our homes to look after our environment.

The teams have pledged to follow a three-point action plan to minimise the effect of their activities on the environment while they're here in Auckland, and they're encouraging all Aucklanders to join The Big Clean Up.

These are simple actions appropriate to their activities. We were encouraged by the enthusiasm and participation of the syndicates. Here are some examples of their endorsement of The Big Clean Up.



Dean Barker signs the commitment to the Big Clean Up for Team New Zealand.

OneWorld Challenge CEO, Gary Wright fully supports the Big Clean Up. Councillor Ian Bradley and ARC Harbour Master James McPetrie congratulate him.



the Kokopu connection



The Kokopu Connection, part of Project Care, is North Shore City Council's project to obtain resource consents for the continued operation of the city's stormwater and wastewater systems.

Pollution from the wastewater and stormwater systems can affect beaches and streams in cities where people live close together. Auckland and North Shore City are no exception. While Project Care is working to reduce wet weather sewage overflows, the effects from the stormwater system often result from the activities of individuals. This can include putting paint and other chemicals into the stormwater system or dumping grass clippings into streams.

The name was chosen because the Kokopu is a native trout that lives in streams and also spends part of its life cycle in the sea. There are two different types of Kokopu in North Shore streams. If the streams and marine environments are healthy, the Kokopu will be healthy and be present in good numbers. This little native of the North Shore environment is a good guide to how well we are caring for our environment. Because this fish relies on the health of our streams and the sea, it is an ideal 'champion' for the project. The Kokopu is the link between how the people live and the health of their streams and beaches.

Educating adults and children about the environment is an important part of the Kokopu Connection, so to help us we have developed cartoon characters; Tina, Tane and Kokopu. The cartoons will give kids, and hopefully their parents and other adults, clear messages about what they can do to improve our streams, beaches and help the Kokopu.

Look out for your copy of the quarterly Kokopu Connection newsletter, Tina and Tane cartoon and our kids newsletter. This is available at all North Shore schools as a poster and electronic copies are available on request.

For more information visit our website www.nthshore.govt.nz/waterinfo or email Wendy Symmans of our Project CARE team at symmansw@nthshore.govt.nz



Resources

Hot off the press!

Learning Through Experience 2003

ARC's details of experiential programmes for schools in Regional Parks.



Environmental Education Catalogue

For the teacher / community. Books, resource kits, newsletters, posters, factsheets, websites, funding, awards.

Send for your free copy:
Enviroline 09 366 2000
(for callers outside the toll free area – 0800 80 60 40)

Or visit our website for free download www.arc.govt.nz
See Education – click on resources

Websites



Wai Care – Auckland region's water care programme for communities and schools. Teacher resources available as a free download. www.waicare.org.nz

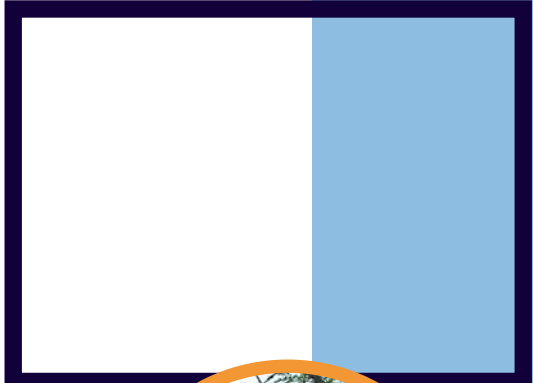
Auckland Regional Council – stormwater, pollution. www.arc.govt.nz/environment/pollution

Ecowater ... useful and relevant material for teachers, students and anyone interested in learning more about water and the role of EcoWater in Waitakere City. www.ecowater.co.nz/4_educ/cont

Manawa – Auckland region environmental groups / events calendar, resources. www.manawa.co.org

National Waterways Project New Zealand - teacher resources, school case studies, newsletters covering happenings in the waterways project. ... Pollution Detective activities. Links to other sites. www.nwp.rsnz.org

Its finally here enviroschools awards



The EnviroSchool Awards was launched by Honourable Marian Hobbs, Minister for the Environment at Verran School, Birkenhead on November 14th 2007.

Working towards a sustainable future.

The EnviroSchools Awards are available to all schools. It is designed as an incentive scheme for schools to become actively involved in environmental education and to undertake environmental initiatives that will make a real difference in their communities such as; reducing waste, conserving energy, improving air and water quality, protecting and enhancing our biodiversity (plants, animals, ecosystems) or reducing our car trips.



The awards

There are three awards:

Bronze Silver Green-Gold

The Green-Gold award is a prestigious award requiring a commitment to continuous improvement towards sustainability. A framed certificate and flag/banner is awarded to each school..

Further information

will be sent to all Auckland schools in the New Year. Check out our website www.arc.govt.nz click on Education / EnviroSchools.

Tel: (09) 366 2000
Fax: (09) 366 2155
Email: enviroschoolsawards@arc.govt.nz



THE BIG CLEAN UP.
0800 JOIN IN.



Auckland
Regional Council
TE RAUHITANGA TAIAO