# Stratford High School students get involved

In November and December

the Stratford High School Year 10 Social Science classes were actively involved in a series of lessons which covered some of the functions of the Council. All classes viewed a Powerpoint presentation in the Council's display room about what the regional council does to protect and enhance the environment. The second lesson was held in the pest management depot where a pest management officer outlined aspects of the pest management programme highlighted by a trap setting demonstration. Lesson three was in the Patea river looking



at the river's health and the final lesson at the school outlined the benefits of the riparian management programme. The school has been involved in this programme for over 10 years.

#### A big thank you

It was heartening to read that a recent Colmar Brunton poll revealed that the majority of New Zealanders support environmental education in schools. Indeed the poll showed that more than nine out of ten New Zealanders agreed that all schools from early childhood to tertiary

level should include teaching about the natural environment and living in a way that preserves it for the future. A big thank-you to the hundreds of you who obviously agree with the findings in the poll and are committed to providing programmes that clearly endorse the views of the majority.

## Sir Peter Blake Youth Enviro **Leaders Forum - 2012**

The ninth annual Sir Peter Blake Youth Enviro Leaders Forum will provide an opportunity for students to be selected for the Young Blake Expedition to the Kermadecs to learn more about this incredible area, and to gain the skills and experience required. To be eligible for selection as a delegate to the forum and possibly be selected for the Young Blake Expedition you must be:

- 15 18 years of age at the time of application;
- A New Zealand citizen or a New Zealand resident;
- A student at a New Zealand secondary school;
- In good health with a high level of physical fitness;
- Able to demonstrate a passion for the environment and a contribution to New Zealand's natural environment;
- Able to demonstrate an understanding of the significance of the Kermadec Islands;
- Able to show leadership potential;
- Available to attend the Sir Peter Blake Youth Enviro Leaders Forum in Auckland from 15 - 19 April 2012:
- If selected, available to travel to the Kermadec Islands as a member of the Young Blake Expedition from 8-19 August 2012.



### **Applications close on Friday 2 March**

Fifty delegates will be selected to attend the ninth Sir Peter Blake Youth Leaders Forum and from this group thirty will be selected to join

The application form can be downloaded from www.sirpeterblaketrust.org It would be great if our region could be represented firstly at the forum and, for those especially lucky, at the expedition. Kindly bring this to the attention of those students who you feel have the qualities required to meet the eligibility criteria.

### Bits 'n' Pieces

#### **Environmental Awards 2012**

Has your school been involved with a special environmental project or perhaps your students have done some outstanding environmental activity? If so, you should consider a nomination for a Taranaki Regional Council Environmental Award.

#### Nominations close 31 March 2012.

For more details or a nomination form please contact:

Rusty Ritchie Senior Information Officer **Ph:** 06 765 7127 or **Fax:** 06 765 5097 Email: rusty.ritchie@trc.govt.nz or go to the Council website

#### **Professional development**

Sessions coming up real soon Rocky shore

Tuesday 7 February 4.00pm - 5.30pm

Kawaroa Reef, New Plymouth.

Wednesday 8 February 4.00pm - 5.30pm Bayly Rd Lighthouse, Rahotu

See the insert for more details.

#### Special Days/Weeks/Months

Bike wise month: February

World Wetlands Day: 2 February

Seaweek: 3-11 March World Migratory Birds Days: 14/15 May

World Rivers Days: 25 September Disaster Reduction Day: 10 October

# **EXPLQRE A**

**Celebrate World Wetlands Day** 

Lake Rotokare **Sunday 12 February** 10 am

# Bring walking shoes

#### Answers from page 3

Multi Choice auiz: 1.D 2.D 3.C 4.A 5.A 6.B 7.B

**Definition Match:** 9, 8, 7, 6, 2, 4, 3, 5, 1

Hidden fish: 1.eel 2.carp 3.smelt 4.trout 5.rudd 6.kingfish 7.salmon 8.cod 9.bully 10.brill

> For assistance or information on environmental education contact: Kevin Archer, Education Officer Taranaki Regional Council Private Bag 713, Stratford

Ph: 06 765 7127 Fax: 06 765 5097 E-mail: education@trc.govt.nz www.trc.govt.nz





Schools in the environment newslet

#### Welcome back

Welcome back to another busy and productive year. We regularly review our programmes to determine which ones work well and which ones could be improved. As mentioned in the last issue of SITE we feel we can offer better professional support for teachers by being more involved at your syndicate or staff meetings. Already a number of schools have requested my attendance on their Teacher Only Days or at one of their first staff meetings for the school year. As in the past we will continue to offer teacher workshops at venues such as rock pool areas and Konini Lodge simply because they are always well patronized and obviously meet teachers' needs.

We continue to receive positive feedback about our website www.trc.govt.nz. Clearly teachers are finding it to be user-friendly and valuable. It is also evident that a large number of your students also find the website a valuable research resource. Thank you for encouraging them to make use of it in such a positive way.

Up until last year the Council was involved in the selection of Year 12 and Year 13 delegates to attend the annual Sir Peter Blake Youth Environment Forum which was held in the first week of the April school holidays in Wellington. Those who attended had a wonderful opportunity to meet like-minded young people from all over New Zealand, were involved in environmental projects and visited many special places. Last year the selection process was changed and the host city was switched from Wellington to Auckland. This year's forum promises to be even more exciting with a trip to the Kermadec Islands in the offing for many of those who attend the forum. On page four of this issue of SITE you will find more information about the forum and the expedition and how your students can apply for selection.

In 2010 the Taranaki Civil Defence Emergency Management group conducted a community exercise named 'Taranaki Blowout'. The exercise provided an opportunity for people to better understand our volcano and be ready to respond when it erupts. Feedback from the exercise generally was positive and many schools were heavily involved. This year there will be a nationwide exercise named 'Operation Shakeout' which will be held in September. Keep your eyes open for more information.

Regards **Kevin Archer** 

#### The Coast

The focus of this newsletter is the coast and what makes ours special. The unit The Coast -Te Takutai Moana is a useful resource for teachers who want to study the coast in more detail. It is available online or you can obtain a copy from Kevin if that is easier.

#### Seaweek 2012

(3 March – 11 March)

The theme of Seaweek 2012 is 'One ocean too much love?' and explores the impacts now and into the future of the wide variety of uses we make of the sea. Seaweek focuses on learning from the sea. It's about exciting and inspiring all New Zealanders to renew their connections with the sea. It's a time for all of us to get to know our ocean and its habits, characteristics and inhabitants better. Seawee comprises a wide range of events, activities, opportunities and competitions. For details go to www.seaweek.org.nz





A look at the Dawson Falls Visitor Centre, an opportunity to learn more about mountain safety, a chance to identify the invertebrates in a mountain stream, a bush walk, a close-up view of Dawson Falls, a chance to see what Konini Lodge has to offer and a big lunch were features of the latest teachers' workshop held in November. Ten teachers from four schools took part in the day's activities with all intending to investigate further use of the area with their classes. Everybody had fun and contributed to the success of the day despite nobody being brave enough to test the water at the foot of the falls.

## Our Coast Te Takutai Moana 🐔

Sometimes people are uncertain as to what actually constitutes the coastal environment and this is entirely understandable as definitions vary from region to region. In Taranaki, the coastal environment includes areas of rocky shore, cliffs, sandy beaches, dunes, marine protected areas, sub tidal reefs, river mouths and estuaries. It also includes the open sea up to 22 kilometres from the shore.

The Taranaki coastline is 295 kilometres long. much of it is rugged which makes a significant contribution to the region's distinctive character. People from within the region and beyond enjoy and appreciate the coastal environment. It is important that its special character is protected and under the provisions of the Resource Management Act (RMA) the Taranaki Regional Council has an important role to play to ensure this special character is maintained.

While areas such as Port Taranaki have been substantially modified and other coastal areas have come under pressure from development, generally speaking most of our coastline remains untouched from significant development.

The water quality in our coastal areas is generally excellent. There are several reasons for this such as the rise and fall of the tides, the reduction in the number of direct discharges to the sea and the improvement in waste treatment and disposal.

Many of us use our coastal environment for activities such as fishing, diving, swimming, surfing, wind surfing, walking, exploring and boating to name some of them. We enjoy having public access to the coast and this can often be provided by road, esplanade reserve, esplanade strips or by gaining permission from a landowner.



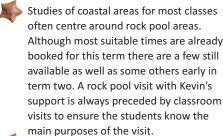
The main influences on coastal water quality are from rivers discharging to the sea. They may contain urban stormwater, sediment, agricultural run-off or industrial wastes. The effects are most noticeable after heavy rain. The Council monitors water quality at recreational beaches during the bathing season. Generally speaking the water quality of our beaches is safe for recreational use and compares well to other regions in New Zealand.

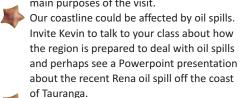
#### Do sand dunes help protect our coast?

They most certainly do and although they cannot stop some sand from being lost to the sea by wave action they certainly have the effect of reducing the impact that waves have on the foreshore. The dunes provide a buffer between the coastal land and the sea, thereby helping protect it from erosion. By keeping out of sand dune areas people assist the dunes to carry out their important role.

#### **Council support for teachers**

The Council offers the support of Education Officer, Kevin Archer, for studies and staff meetings as well as educational resources on the Council website www.trc.govt.nz





Investigate what our website www.trc.govt.nz/Coast -2 has to help you with your coastal study.

Invite Kevin to read to your class the story 'Skalaska's New Home'. This is a delightful story about a young godwit, a recent arrival in New Zealand and her battle to stay alive. The story has a strong coastal, environmental message.

We have educational resources such as Life's a Beach, the Estuary Kit and Coasts and Us available for borrowing. All contain excellent activities for classes.

#### Did you know:

Currents carry huge volumes away from our region every year. Some has been found as far south as Manawatu and as far north as

Oakura School has now been conducting an annual beach clean-up for 39 years. Well done Oakura School.

# Junior Environmentalists Page



Word find Find the rock pool related words in the maze. They run in all directions up, down, diagonally or backwards etc.

Algae												
<ul><li>Anemone</li><li>Bucket</li></ul>	Р	Τ	Τ	U	Τ	- 1	M	R	Ε	Н	L	Ν
<ul><li>Coast</li><li>Conservation</li></ul>	Κ	Ε	Ε	ı	Т	Ε	0	M	U	S	0	С
<ul><li>Coral</li><li>Crab</li></ul>	Ε	K	R	Р	D	С	Р	K	ı	ı	0	0
<ul><li>Hermit</li><li>Jellyfish</li></ul>	Ε	С	Ε	ı	Т	Ε	ı	М	Т	F	Р	Α
<ul><li>Kina</li><li>Limpet</li></ul>	W	U	Р	0	W	N	Е	Α	ı	Υ	K	S
<ul><li>Mussel</li><li>Octopus</li><li>Periwinkle</li></ul>	Α	В	Р	М	Α	ı	V	W	Ε	L	С	Т
Reef Rockpool	Ε	U	0	U	V	R	N	G	Α	L	0	0
<ul><li>Sand</li><li>Sandhopper</li></ul>	S	G	Н	S	Ε	F	Е	K	G	Ε	R	W
<ul><li>Sea</li><li>Seaweed</li></ul>	В	С	D	S	S	Н	E	D	L	J	S	E
<ul><li>Seaweek</li><li>Spade</li></ul>	A	Α	N	E	М	0	N	E	A	E	G	L
<ul><li>Suckerfish</li><li>Tide</li></ul>	R	0	Α	_ 	Α	R	0	C	R	– P	Н	W
<ul><li>Towel</li><li>Waves</li><li>Whelk</li></ul>	C	Н	S	Ī	F	R	E	K	C	U	S	W
• • • • • • • • • • • • • • • • • • • •	•		-	•	•	- •	_		-	-		

#### Hidden fish

See if you can spot the name of the fish hidden in these sentences

- The Scottish reel is a lively type of dance.
- Please keep the carpet clean.
- The aluminium smelter had to close down.
- The safest route out of town is via the main highway.
- A rudder is an important part of a boat.
- The kingfisher is a lovely native bird.
- Influenza, hooping cough and salmonella are very unpleasant illnesses.
- A good knowledge of the road code is essential for all drivers and cyclists.
- The crazy bull yelled and snorted its way round the paddock.

C - 1,099 km long D - 295 km long

C - something related only to deserts

B - Okato

D - never likely to occur in Taranaki

C - New Plymouth D - Waitara

He played brilliantly.

8. Taranaki's coast is

9. Erosion is

A - 550 km long

A - a natural process

10. Ngamotu Beach is in

A - Opunake

B - an artificial process



B - 369 km long

#### Coastal quiz

#### 1. An estuary is

- A the name of a month in French
- B a saltwater lake
- C an eddy in a river
- D the tidal mouth of a river

#### 2. In New Zealand the best recreational beaches are awarded

- A red flag status
- B green flag status
- C yellow flag status
- D blue flag status

#### 3. A fiord is

- A a wide arm of the sea between cliffs
- B a long, narrow arm of the sea between two islands

**Definition Match** Match the definition to the

sea creature and write the number in the square provided

Hermit Crab 1. Has long, sharp spines which help it to move

4. A small fish with three fins

8. Popular kaimoana

2. Has eight interlocking parts to its shell

3. Has stinging tentacles to help catch prey

5. Usually has five arms radiating from its body

7. Has a heavy, dark green shell with a special opening

6. Has a flat shell which sticks tightly to rocks

- C a long, narrow arm of the sea between high cliffs D - an inland sea

Paua

Cats Eye

Limpet

Chiton

Cockabully

Anemone

Starfish

#### 4. Geographically a 'sandspit' is

- A a deposition landform found in coastal areas B - a large circular deposit of sand
- C an area where the waves break continuously
- D always found on high cliffs

#### 5. A breakwater is usually built to

- A break the force of the waves near a harbour
- B block water from leaving a river
- C withstand a tsunami
- D protect water in a lake

#### 6. Mitre Peak in Fiordland is

- A the highest mountain in the South Island
- B a very high sea cliff
- C always covered in cloud
- D named after a TV series

#### 7. The swash zone is part of the A - onshore B - foreshore

- C backshore
- D not sure

#### Target word

How many words of three or more letters can you make from the grid below? each word must contain the middle letter. Can you solve

H

Goal: 1-5 good

6-10 very good 11+ brilliant!

the nine letter word?

9. Uses the discarded shell of other creatures for protection Community planting at Stent Road SITE FEBRUARY 2012 ISSUE NO.60 SITE FEBRUARY 2012 ISSUE NO.60