

Imprint

June 2008



News from the Auckland Regional Council's Stormwater and Sediment Team

Welcome to the June edition of Imprint.

Over the next few months we will be rolling-out a new style of Imprint which will feature not only sediment and stream management information but also stormwater management updates.

In this edition we congratulate the 2008 Environmental Excellence Award winners.

Also included is information on the new stream definitions, information on the Sediment Liaison Group and Stormwater Liaison Group meetings and the 2008 field day.

Features in this issue:

- Environmental Excellence Awards
- Stream definitions
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Environmental Excellence Awards

Project Winner, Category 4 - Greater than \$10 million



A view of the work undertaken by Category 4 (Greater than \$10 million) winner Leighton Works JV on the State highway 20 Manukau interchange.

The awards, sponsored by Shell New Zealand Limited, recognize those companies responsible for outstanding and innovative management of erosion and sediment control on earthworks sites in the Auckland region.

Competition was tough this year with 11 applications received, four more than last year. In addition, there was an overall improvement by the Industry in the 2006-07 earthworks season as compliance ratings increased by six percent compared to the previous season.

There were four award categories, which are based on the monetary investment in each project (NZ dollars) – less than \$500,000, \$500,000 to \$2 million, \$2 million to \$10 million and over \$10 million.

ARC would like to congratulate the winners of this year's Environmental Excellence Awards.

The joint NZ Contractors' Federation Auckland Branch and Auckland Regional Council awards were presented on June 17.

The assessment for each site included the overall management of the environmental controls during the earthworks season, the innovative techniques used for difficult situations and relations with the community.

The judging panel included Malcolm Abernathy of the NZ Contractors' Federation, Andrew Reeve of SKM Consulting and ARC's Stormwater

and Sediment Manager Roger Bannister.

The winners of this year's awards showed outstanding initiative and management when working in close proximity with sensitive receiving environments.

Below is a list of the 2008 Environmental Excellence Awards winners:

Category 1 **Less than \$500,000**
Winner HEB Construction Limited
Project Orere Stream Protection Works, Manukau

Category 2 **\$500,000 to \$2million**
Winner HEB Construction Limited
Project Hingaia: Stage 3 & 4 Karaka Harbourside Subdivision

Merit Award for Innovation Brian Perry Civil Limited
Project Upper Mangatawhiri Dam

Merit Award for implementation Ross Reid Contractors
Project Mission Heights School, Auckland

Category 3 **\$2million to \$10million**
Winner Hick Bros Civil Construction Limited
Project Silverdale North – Millwater subdivision

Merit Award Hawkins Infrastructure Limited
Project Gulf Harbour – Hobbs Wharf Sea Wall, Whangaparaoa

Category 4 **Greater than \$10million**
Winner Leighton Works JV
Project State highway 20 to State highway 1 Manukau Extension project

Project Winner, Category 1, Less than \$500 000



HEB Construction Ltd during the Orere Stream Protection Works in Manukau.

Project Winner, Category 2, \$500 000-\$2million



HEB Construction Ltd during construction of the stormwater pond associated with stage 3 & 4 at Hingaia Peninsula.

Project Winner, Category 3, \$2million-\$10million



An aerial view of the Silverdale North Precincts 1-7 during construction undertaken by Hick Bros Civil Construction Ltd.

Winter works applications

We granted more than 125 winter works applications this season – only 7 percent of applications were declined. A major consideration for the winter works assessment was the compliance scores for each site during the earthworks season. Keep up the good work!

Stream definitions

On 17 April 2008 the Environment Court signed off an amendment to Chapter 2 of the Air Land and Water Plan (PARP:ALW) that changed the definition of streams (Chapter 12). Streams are now categorised as Permanent and Intermittent rather than Category 1 and Category 2. The previous definition for category 1 included biological aspects. The definition has been revised as below.

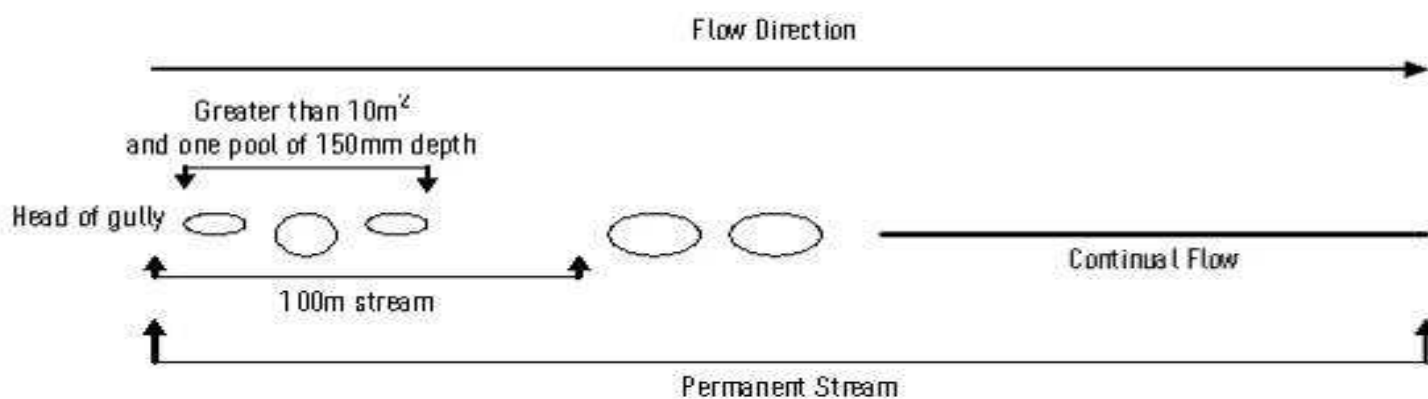
A Permanent River or Stream is now defined as:

- (a) has continual flow; or
- (b) has natural pools having a depth at their deepest point of not less than 150 millimetres and a total pool surface area that is 10m^2 or more per 100 metres of river or stream bed length.

Notes:

- (1) This definition does not include any artificial watercourse (including an irrigation canal, water supply race, canal for the supply for electricity power generation, farm drainage canal) and roadside drain and water-table except where the roadside drain or water-table is a modified element of a natural drainage system); or
- (2) Where there is uncertainty over the status of any stream the ARC will provide assistance and advice concerning the steps involved in making that determination.
- (3) Assessment for determining *Permanent rivers or streams* and *Intermittent streams* may be undertaken at any time of the year. Once a reach of a river or stream has been assessed as satisfying the criteria for categorising the stream as an *Intermittent stream*, upstream of the point of assessment will continue to be considered an *Intermittent stream*. Details of the assessment should be retained for the purposes of demonstrating the stream's status as an *Intermittent stream*.

A diagrammatic interpretation of the new permanent stream definition:



These definitions will be applied to all applications received after 17 April 2008. Processing officers assessing any existing applications will have to take into consideration this definition. For more information please contact the relevant processing officer.

Sediment Industry Liaison Group meeting

The Sediment Industry Liaison Group (SILG) met on 22 May 2008. The following topics were discussed.

Cultural perception of environmental outcomes

James Brown of Opus International Consultants Limited gave a presentation highlighting the cultural perception of water and water bodies as well as Iwi's perspective on treating, controlling and managing water bodies. The presentation emphasized the need to consider cultural values and liaise with the Iwi community regarding current issues, plans and projects at an early stage.

Information on Iwi Management Plans can be found on the ARC website at: <http://www.arc.govt.nz/council/maori-relations/tangata-whenua/iwi-management-plans.cfm>.

Scoring Moderation

The ARC is reviewing its scoring system in order to make it more robust and to improve consistency across all regions. A draft schedule of guideline scores has been developed. This draft was circulated and discussed at the SILG meeting.

Members of the SILG will review the schedule and provide the ARC with comments. Once we have finalised the guide we will make it available to the industry. For further information,

please contact us directly or discuss with a member of the SILG

Chemical Treatment Guideline

Following discussions at the last SILG Meeting in April 2008 and comments provided by SILG members an amended Draft Chemical Treatment Guideline was produced.

The amended draft guideline was circulated to the SILG and discussed. It was resolved that the ARC's intention is to provide clear best practice guidelines prior to the commencement of next season. Please refer to the article titled '**Chemical Treatment Guideline**' for more information on this topic.

Membership of SILG	
Name	Company
Alan Stevens	Roading NZ Ltd
Amanda Davies	Transfield Services (NZ) Ltd
Brian Handyside	Erosion Management Ltd
Campbell Stewart	Southern Skies Environmental Ltd
Campbell Sturrock	Fulton Hogan Ltd
Eminoni Ranacou	Fulton Hogan Ltd
Fiona Mountfort	HEB Smithbridge Ltd
Fraser Wyllie	NZ Contractors Federation (Auckland) and Hawkins Construction
Glenn Pope	Waitakere City Council
Grant Blackie	Environment Waikato
Jon Tomsett	Erosion Control Co Ltd
Ken Schmidt	North Shore City Council
Leanne Thomson	Environment Waikato

Membership of SILG	
Name	Company
Lisa Sutherland	Sutherland Resources Ltd
Lyall Babington	Babington and Associates
Maria Baring	Manukau City Council
Michael Larcombe	Consultant
Michael Harris	Winstone Aggregates
Mike Dunphy	Ridley Dunphy Environmental Ltd
Mike McConnell	McConnell Consultancy Ltd
Peter Nagels	North Shore City Council
Peter Mitchell	Opus International Consultants Ltd
Phillip Fairgray	Hutchinson Consultants
Rebecca White	Leighton Contractors Ltd
Robin Stevenson	Hazel-Hewitt & Associates Ltd
Stuart Chapman	Fletcher Construction Company
Wayne Viall	Northern Gateway Alliance

The next **Stormwater Industry Liaison Group** meeting has been scheduled for 10 July 2008. If you are interested in being involved please contact the SWILG Coordinators Adam Duncan or Mike Martindale on 366 2000.

Chemical treatment guideline

Following the SILG meeting in May 2008 further comments have been received from SILG members and the Chemical Treatment Guideline has been finalised. The guideline will be considered best practice and applied to all earthwork applications received after 30 June 2008. The complete Chemical Treatment Guideline is available on the ARC website at: <http://www.arc.govt.nz/environment/sediment-and-erosion/sediment-publications-research-and-newsletters.cfm>. A summary of the guideline is below:

Chemical treatment guideline

In order to provide a level of consistency and certainty to resource consent applicants and those preparing erosion and sediment control plans we have adopted the following criteria:

Chemical treatment will be required for any site that produces more than 1.5 tonnes of (net) sediment as determined by a Universal Soil Loss Equation (USLE) calculation. Sites which exceed this threshold will require chemical treatment in accordance with a site chemical treatment management plan. This plan shall be submitted as a part of the resource consent application.

Exceptions to the guideline are:

- If a particular device is to be operational for less than one month, then chemical treatment may not be warranted.
- Sites within granular volcanic soils (generally found around the Pukekohe and Mangere Mountain areas) and the sand areas (such as Omaha and Muriwai) may not require chemical treatment.
- Sites which operate under specific discharge standards may not require chemical treatment (i.e. quarries).

If during the chemical treatment bench testing it is determined that chemical treatment will provide no benefit (improvement) to the efficiency of the sediment control devices, then chemical treatment may not be required.



Chemical treatment will be required for any site that produces more than 1.5 tonnes of (net) sediment as determined by a Universal Soil Loss Equation (USLE) calculation.

ARC consents

The application forms for all ARC consents have been amended. The new forms will be available at www.arc.govt.nz/council/consents/forms-and-fees.cfm. Please note the new forms should be used for all applications submitted from 1 July 2008.

Any correspondence relating to a lodged application or granted consent should state two points of reference, the application or consent number and file number.

Industry development courses

These courses not only offer guidance for the wider earthworks and stormwater industries but also provide ARC with valuable feedback.

Places are available on the courses outlined in the opposite table. The courses are held at North Harbour Stadium, Albany.

For more information please visit www.arc.govt.nz/environment/sediment-and-erosion/education-for-industry-about-erosion.cfm

To register please email ind_dev@arc.govt.nz.

Industry Development Courses	
Course	Date
Plan Preparers	29 & 30 July 2008
Plan Implementers	12 August 2008
Stormwater Design (TP10)	15 & 22 July 2008
Chemical Treatment	8 July 2008
Stream Ecological Value	23 & 24 September 2008
HEC-HMS Workshop	21 October 2008

Field day 2008

With winter well on its way the ARC is again planning its annual sediment and stormwater field day to open the next earthworks season.

The last week of September 2008 is the proposed date for the field day. Last year's field day was a great success something we will be striving to build on.

More details will be available in the next edition of Imprint – watch this space!



The 2008 field day is proposed for the last week of September. See you there!

Imprint aims to keep industry (consultants and contractors) and other stakeholders informed about recent developments relating to sediment, stream and stormwater management.

If you have any comments regarding our newsletter or any of the articles, please don't hesitate to contact ind_dev@arc.govt.nz.