

NOTES OF THE RCA FORUM STORMWATER GROUP MEETING

NZTA National Office, 50 Victoria Street

10.00 am Thursday 25 August 2011

Present:	Wayne Newman Nicci Wood Dale Nicholls Balt Gregorius Jon Schwass Ted Taylor Ross Nicholson Craig Redmond Melanie Hutton Jonathan Moores Rachel Pawson	Wellington City Council NZTA Operations, Napier NZTA, National Office Napier City Council Greater Wellington Regional Council Horowhenua District Council NZTA, National Office Ministry of Transport NIWA Greater Wellington Regional Council	Convenor
Apologies:	Rachel Pawson		

ITEM	DISCUSSION	ACTION
1.Welcome and apologies	<p><u>Noted</u> apologies of Rachel Pawson, and departures of Hayden Easton, Treena Davidson and Ueli Sasagi, and welcomed Melanie Hutton to the group.</p> <p><u>Noted</u> withdrawal of Ministry for the Environment from the group for budgetary reasons.</p> <p><u>Agreed</u> that representation of Auckland Council on the group remains essential. (Craig/Ross)</p>	Wayne to discuss with Judy Ann

<p>2. Meeting Notes/Matters Arising</p>	<p><u>Noted</u> five actions were agreed at the last meeting on 3 March 2011. The actions in the key result areas agreed form the current work plan. The support for topic registration in the 2011/12 NZTA Research Programme for further research to determine roading contaminant sources and when treatment is required to inform regional council rules, although offered by RGG, was not sufficient to overcome a lower priority for environmental research in accepting topics for the Research Programme. The revised FAQ sections are continuing to be edited to reflect recent research reports. Revisions of the web-site pages are continuing, but significant revision of the site is waiting on a new Communications Strategy for the Form.</p> <p><u>Agreed</u> the minutes were a true and proper record of the meeting. (Balt/Ted)</p>	
<p>3. Report on research</p>	<p><u>Received</u> a report from Jonathan on (a) the proprietary devices field trials being undertaken by NIWA; (b) research into the treatment effect of open graded porous asphalt; and (c) possible material for presentation at the Forum on 16 September.</p> <p><u>Noted</u> the field trials of the Stormwater 360 “Stormfilter”, Hynds “Upflow” and Humes “Filternator” have been extended from nine to fifteen events to accord with the Proprietary Device Evaluation Protocol. The “Stormfilter” is situated off Esmonde Road and has experienced heavy inflows of sediment from non-road runoff sources. The monitoring method is being changed from a weir to a Doppler measurement to avoid intake disturbance. Conversely, the “Upflow” installed at Albany Westfield has encountered unexpectedly low, and currently unexplained, sediment levels in inflows. The “Filternator” is performing very consistently, on a smaller and less trafficked area of SH17 at Silverdale.</p> <p><u>Agreed</u> it is of paramount importance to obtain meaningful results from these trials. The effects of any peculiarity in the Westfield trial need to be understood, as it might be that car parks do not need such heavy stormwater treatment as roads carrying comparable vehicle numbers.</p> <p><u>Noted</u> the research on open graded porous asphalt (OGPA) arose from anomalies within the 2008-09 field studies. Fully permeable paving has been used extensively in low-traffic areas. It has proven treatment capabilities of 95% of TSS and 83% of zinc, but has very high maintenance requirements, with vacuum-sweeping recommended 2-4 times annually to remove captured material. OGPA is used on high-traffic roads over an impermeable base for reasons normally associated with noise or surface ponding of water. Nevertheless, its stormwater treatment effectiveness is comparable to fully permeable paving, at 94% TSS, 90% zinc and 75% copper, at pavement ages up to 3 years. The 2008-09 field studies of road runoff provided an opportunity to compare the effectiveness of OGPA after 1 year at Northcote and after 6 years at Redvale with roads that had never had OGPA at Westgate and Huapai. The results showed a</p>	

	<p>deterioration over time, but Redvale was still significantly better than Westgate (which was significantly better than Huapai), so that for the usual life cycle for OGPA of 7 years the whole-of-life treatment is still significantly better than normal impermeable pavement.</p> <p><u>Agreed</u> the effect on treatment train design needs to be considered, because a swale (for instance) would initially be treating mainly dissolved metals and then progressively more TSS.</p> <p>Noted appropriate matters for inclusion in a presentation to the Forum might include sources of contaminants, contaminated roads, and material presented above.</p> <p><u>Agreed</u> a report on macroinvertebrate use as a guide to contamination would be better delivered to the Group later, rather than to this Forum meeting.</p> <p style="text-align: right;">(Dale/Craig)</p>	<p>Wayne to follow up</p>
<p>4. Regional Council's stormwater seminar on 19 August</p>	<p><u>Received</u> a report from Ted on matters raised during the seminar on 19 August.</p> <p><u>Noted</u> work being done on emerging contaminants, especially pharmaceuticals, and identifying whether tidal creeks near sensitive receiving environments act as a source or a sink for contaminants, and Auckland University studies of first-flush phenomena and living roof planting media. The review of the technical publications by Auckland Council is progressing, but with a delay on completion now anticipated to be 12 to 18 months on original forecasts.</p> <p><u>Noted</u> the GWRC review of plans is expected to be available as a proposed document around the end of 2013. An approach being considered is to use guidance documents providing acceptable solutions or methods, rather than rules. A move towards catchment based discharge limits or allocations is also likely. This is consistent with the NPS requiring limits to be set for quantity and quality for receiving waters.</p> <p><u>Agreed</u> the effect of quantity and quality limits could have serious implications where state highways discharge into local networks.</p> <p style="text-align: right;">(Craig/Ted)</p>	
<p>5. Guidelines</p>	<p><u>Noted</u> the last advice from MfE regarding the Guidance Note on Stormwater Runoff from Roads for the Quality Notes website was that the technical reference group for the project had reported that the Note was insufficiently robust and MfE had concluded that the Note needed significant work to match the quality of the other Quality Notes.</p> <p><u>Received</u> a report from Melanie that the latest advice received by MoT from MfE was that MfE would undertake the work required to bring the Note up to standard to go on the MfE website.</p>	<p>Wayne to liaise with MoT/MfE</p>

	<p><u>Noted</u> the On-Site Stormwater Management Guidelines represent a significant guidance document already available, but not easily accessible to roading managers and practitioners, and not being kept up-to-date with research findings since its 2004 publication. Whether it would be better to revise these Guidelines for the Register or allow local adoption and adaption of the NZTA Standard for State Highways Infrastructure is unclear.</p> <p><u>Noted</u> the revision of the FAQ pages has continued, with much of the historical review now augmented by reports from local and recent research, but the exact audience and use of these pages remains elusive.</p> <p><u>Noted</u> the NZTA Stormwater Management Course at http://stormwater.learnscape.co.nz/ provides an e-learning guide for practitioners that is now a contractual requirement.</p> <p><u>Agreed</u> to discuss with Water NZ and MfE the possible revision of the Guidelines, and to investigate the use and promulgation of the Stormwater Management Course.</p> <p style="text-align: right;">(Craig/Dale)</p>	<p>Wayne to liaise with Water NZ and MfE</p>
6. General Business	No items of general business were raised.	
7. Next meeting	<p><u>Agreed</u> the next meeting should be called in late November or early December.</p> <p style="text-align: right;">(Jon/Nicci)</p>	<p>Wayne</p>
	Meeting concluded at 2:00	