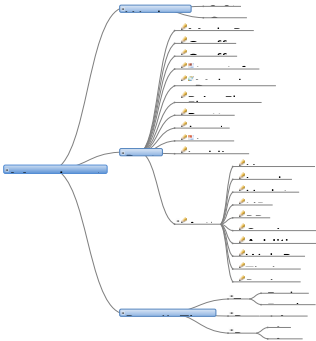


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## **1.1 Mark Wheeler: Residents meet the Mayor**

Residents meeting with Mayor Sowman & Clr Jerram. 30th July 2013.

5 residents present

Mark (Mwh) and Jon (Jcu) in attendance..

Residents are (and remain) unanimous in the view that there be no more stormwater to Murphys Creek (MC) principally on account of perceived impact on quality of the creek environment including water quality.

Passionate submission was made about safeguarding the quality of MC as a spring fed stream.

Concerns about the prospect of flooding in the Hiley Street area were firmly expressed by L Dahlberg.

There are 40 plus residents willing to go to Environment court to oppose the present proposal.

Residents advanced a proposal to pipe water direct to Taylor River. Their research suggests an additional \$1.3m in cost over and above current proposal.

***The approach adopted by the Mayor and expressed to the residents was for him to listen, to take further technical advice from staff before putting a number of options back to Councillors for discussion and decision. In other words the current proposal, while still "on the table" was effectively "on-hold" - pending Council's consideration of it alongside other options. Meantime investigation work would continue as would evaluation of these other options.***

***Mayor Sowman said he would wait until after the elections (in October) and have the new Council debate the options***

***Water quality concerns to be addressed at that time as well.***

We, (staff) need to get out on the ground (with residents and Councillors) to emphasise the flood impact and demonstrate the levels of flooding that occur in both the Taylor River and in Murphys Creek and what causes these flood levels to occur.

Put another way staff need to provide an "on the ground" response to the view that "putting in 3x the flow in at MRR will flood properties in the Hiley Street area".

Model runs with the flood levels in the Taylor at the outlet from Murphys Creek for various scenarios of coincidence will be done.

Discussion generated from this item included the following:

BWi (Brin) suggested taking a "whole of catchment" approach to the consent, rather than seeking a second consent at a later date to authorise discharges from the whole MC catchment.

[Note: There is good sense in this suggestion. It would tidy up an administrative irregularity. The location of the currently proposed discharge point is part way up the catchment from the point at which Murphys Creek discharges to the Taylor River. Although the effects of all discharges of the stormwater to the creek, are being assessed for "effects on the

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environment", technically any discharges downstream of the MRR culvert would not be authorised. A second consent would be required at some point.

In the event that an alternative point of discharge becomes the preferred one (ie via Boyce Street or Nelson Street or...??) then a "whole of MC catchment" approach to the Resource Consent application would necessarily be taken.]

Confirming current understandings of **Levels of Service** (LOS) is critical to the review of design standards currently underway. This is almost complete – however another dedicated session is required

Further investigations to refine design discharges would include refreshing Pattle Delamore Partners earlier report on potential for infiltration as a means of disposal.

Also the LiDAR data key to completing that assessment for the Murphys Creek and also Casey Creek catchments. This could be completed within 3 or 4 more months.

MWh is OK with this on the proviso it isn't going to take years to complete.

MWh - We maintain personal contact with residents in meantime.

## ***1.2 Geoff Dick: Field Inspections***

Geoff (GDi) visited L Lloyd's property at 159a MRR. Neighbour is retired Dr Raumati. Took contractor Dave Fowler along.

Issue with "bank erosion" was about a spring venting in the creek at that point.

No bank erosion due to "flood waters"

Observed a "bird bath" placed in the middle of the stream.

Upstream of a water wheel.

Bwi has had previous meetings with water wheel owner

Neighbour on left bank (Admirals Motel?) spraying banks with roundup causing bank slumping.

Concerns had arisen re MDC proposal out of perceived bank erosion and a cloudy water episode when PaknSave site was being "hosed down" prior to its opening - December 2012??

BWa (Brett) some water from PaknSav site can get to upper part of MC via MRR

Clarified with Mrs Lloyd and Dr Raumati that no more stormwater to go to Murphy's u/s MRR culvert.

L Lloyd and Dr Raumati now not worried as additional water discharge is d/s of them.

We do need to maintain a presence on the ground.

## ***1.3 Geoff Dick: In-stream Works***

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Bank Erosion: A letter has been received from Jeremy Jones requesting assistance with work to prevent further bank erosion

MWH, GDi, LKU and JCu had met to discuss.

MDC will likely "contribute" to works to prevent further bank erosion.

It has to be made clear that MDC is not protecting the house. Owner(s) need to seek their own advice on stability and safety of house structures.

The stream works will be the property owner's assets.

MWh and GDi to visit Jeremy (Jones) to discuss situation as a first response to Jeremy's letter.

#### ***1.4 Jon Cunliffe: Information - Integration of***

JCu - information gathering, storage & viewing. ArcGIS.

Issue with the scattered nature of information with respect to Murphy's Creek Stormwater Presentation - see attached

Solution - a dashboard from which information on Murphys Creek stormwater can be accessed.

This to be in one place, to be via GIS and web based. Grant Carroll/Malcolm Jacobson have been assisting with this.

We will use this to prototype an integrated means of information transfer for internal users (analysis) and our external customers (ratepayers at large, Murphys Creek residents in particular)

#### **Attachments:**

Information - Access to and Integration of O:\Staffworkingfolders\0Open\jcu\Stormwater Group\Information - Access to and Integration of.ppt

#### **Hyperlink**

<O:\Staffworkingfolders\0Open\jcu\Stormwater Group\Information - Access to and Integration of.ppt>

#### ***1.5 Malcolm Jacobson: A Web Based GIS Portal - Being Developed***

Hi

The link to the web-map I showed you in the meeting earlier is here

<http://bit.ly/14JzQ7L>

Cheers

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Malcolm Jacobson  
GIS Analyst  
Marlborough District Council

**Attachments:**

Murphys Creek Stormwater - Map View <http://bit.ly/14JzQ7L>

## ***1.6 Brin Williman: Flood Levels and Coincidence of Flooding***

Brin (Bwi) has circulated report entitled "*Review of Design Parameters for Murphys Creek Flood Levels*".

Worst flooding is from the Taylor River. Generally those objecting about flood levels in Murphys Creek are affected by the Taylor River not Murphys Creek.

Flood levels in the Taylor at the outlet from Murphys Creek are now well defined. Need to run Laddie's model again using these levels.

Weed growth effects flow levels very significantly. Therefore management of weed is essential to flood mitigation including riparian plantings.

GDi confirmed that during the walkabout residents were looking for better riparian management that had been evident over the last few years.

BWi - Re any resource consent application - expect close scrutiny on volumes of discharge. This can be mitigated with storage and/or soakage. But needs further investigation. Will include northern zones development. Could take up to a year.

Stephen (SRo) zoning timing now key to setting timeframe.

LiDAR needs to proceed as soon as possible but include a wider area if the funding is available by others.

Laddie will check with Alan Johnson et al about timing and \$ for the Regulatory Department LiDAR needs - and make a call to either go it alone or join forces with Reg. Our imperative is that we need the work done asap. It is also a good time to carry out work as with no "canopy" out it makes it easier for analysis.

JCu - We should be commissioning PDP to investigate soakage &/or storage - asap

Bwi - joint probability of Taylor & Murphy's joint flooding across 40 year data set is rare. 1980 flood was only one to stand out.

## ***1.7 Brett Walker: Pipeline Options***

3 (gravity) options for alternative discharge points from Murphys Creek catchment to the Taylor River are being investigated.

Two extend the pipeline from the MRR Culvert east down Nelson St to alternative discharge points: one opposite Beaver Road and at the other at the southern end of Mill Lane.

In the third option the extended pipeline veers southeast at the intersection of Nelson Street

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and Boyce Street and proceeds down Boyce Street to a discharge point into the Taylor River near the existing pumping station.

There is potential for the pipeline to have to make two crossings of Murphy's Creek.

Detailed costing of the options has yet to be done.

Indications are that costs will be in the range \$1.5m - \$2m.

Question from SRO - Can higher flows be pumped ? i.e. the higher flow being pumped with existing flows only going to Murphy's Creek d/s of MRR culvert.

### ***1.8 Jon Cunliffe: Policy Interface***

Recent refresher conversation with Pere/Brenda re how stormwater strategy fits new RM Plans

In particular how SMAPs fit into the new RM plan framework

Pere advised that a contract to review/rewrite water quality standards has been let. He expects a result (product) in 3 months.

New standards will reflect that stormwater discharges be accepted - as a "use"

Pere is of the view that applying for consent the whole Murphys Creek catchment this time made sense. Would pave the way for incorporating a SMAP into the new RM Plan (as an example) and will pick up an authorise all unconsented discharges in one hit - rather than having the unconsented discharges d/s of MRR culvert "hanging" in limbo and remaining unconsented until such time as a second application is made.

### ***1.9 Jon Cunliffe: Water Quality***

A presentation had been prepared but not shown (time) - see hyperlink

There is a strongly held and unanimous view amongst residents that Murphys Creek is of very high environmental value. The terms pristine and spring fed are often used by residents in describing the quality of the water.

While Murphys Creek appears pristine (clear most of the time) the actual situation is not quite as residents perceive it. We need to continue to provide information that clarifies the actual water quality status with residents.

Notably water quality index comparisons show this stream isn't a whole lot better (qualitatively) than others in the province.

Constituents constraining the Water Quality Index for MC are concentrations of Nitrate, Dissolved Reactive Phosphorous and Dissolved Oxygen

A continuous water quality monitoring station is being installed at the SOE site on Murphys Creek (U/s side of the Nelson Street culvert). This represents a significant commitment to monitoring and safeguarding environmental quality in and around Murphys Creek.

Investment: \$25k capital - plus on going servicing.

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This will give real time information on Turbidity, Dissolved Oxygen, Conductivity and Temperature. Stage, velocity and flow will also be available.

**Attachments:**

Water Quality – Murphy’s Creek O:\Staffworkingfolders\0Open\jcu\Stormwater Group\Water Quality – Murphy’s Creek.pptx

**Hyperlink**

<O:\Staffworkingfolders\0Open\jcu\Stormwater Group\Water Quality – Murphy’s Creek.pptx>

***1.10 Laddie Kuta: Thoughts from Abroad***

Work on LOS needs completion.

Critical to making progress on any future work in modelling.

***1.11 Actions arising***

JCu to prepare and manage a project plan for the remainder of the Murphys Creek project (pre consent) which includes all work streams currently being undertaken - up until and including briefing of Councillors - likely to be early in the new year

**1.11.1 Homework - Workshop Attendees**

1.Groups members to forward any ACTION POINTS not covered in the above record of the workshop to Jon. These to be included (along with those listed herein) in a WBS (Work Breakdown Schedule) for the Murphys Creek project

2.Group members to forward Stormwater related items (other than for Murphys Creek) that require discussion/decision to Jon for inclusion on agendas for future Stormwater Group Meetings.

**1.11.2 Levels of Service - JCu**

Set up a workshop session on levels of Service asap. Similar format to today's workshop suggested.

**1.11.3 Update to Residents - JCu**

Web site page needs updating following meeting with the Mayor.

Advising meeting with residents, further work being done, options being investigated, Council will review position but that this unlikely to happen unlikely early 2014.

NB: Good time to advise residents that maintenance work on the culvert at MRR is to be

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carried out by NZTA in the near future. Nothing to do with MDC's proposals for stormwater.  
Jon to action this

#### **1.11.4 LiDAR - LKu**

Laddie to commission Aerial Surveys to acquire LiDAR data for the west of Blenheim

#### **1.11.5 PDP - BWi**

Brin to commission Pattle Delamore Partners to carry out study into feasibility of soakage as a means of stormwater disposal in new urban growth areas; West of Westwood and in the Caseys Creek catchment area

#### **1.11.6 Costings on Pipeline Options - BWa**

Brett to continue working up the costs of the various pipeline options

#### **1.11.7 Additional Modelling Runs - LKu**

Laddie to re run model for scenarios coming out of Brin's recent review of floods and flood coincidences in Taylor River and Murphys Creek

#### **1.11.8 Web Based GIS Project - MJa**



Malcolm to continue building web based GIS project on Murphys Creek.

Jon to continue to liaise with Malcolm

Catchment boundaries need to be reviewed and confirmed - currently two sets in GIS.

Additional data layers include:

1. Murphys Creek X-Sections



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2. Photographs (2 runs - Kyle Dec 2013, Laddie Sept 2009)
3. Locations of all stormwater outfalls
4. Location of all hydraulic structures in Murphys Creek - ref photos
5. A selection of flood photos for different events (2008, 1994) showing flows within and adjacent to Murphys creek
6. Students field work (Nicki West and Max Millen) - Legend required (Brett)

#### **1.11.9 Timing for Consent - MWh**

Councillors will be fully briefed on options before Council makes a final decision on which option staff should follow through on.

First a report/presentation to the Assets and Services Committee, then to full Council for decision.

This will occur after the local body elections later in 2013.

Early 2014 is the most likely first opportunity to brief Councillors

We will aim to have our investigation and reporting completed in time for the first A&S Committee Meeting in 2014

Any consent application would be lodged following the Council's decision on which option it has chosen to take

#### **1.11.10 Project Management - JCu**

Treat the "work" on Murphys Creek from here on as a PROJECT.

Jon advised MWh 15th Aug 2013

The conclusion of this project will be the briefing for Councillors on Options

This approach should help ensure that we as a group (drawn from different sections) hit the target and be able to brief the Councillors and Residents with quality information and best advice.

Such a project approach will identify work streams and information requirements for the SMAP's envisaged for other areas of Blenheim through the Blenheim Stormwater Strategy.

A by-product of the approach being adopted will be the template for a SMAP for the Springlands Stormwater Management Area, and the content for it as it relates to the Murphys Creek Catchment