

IN THE MATTER OF

the Resource Management Act
1991

AND

IN THE MATTER OF

applications by Central Plains Water
Trust to:

Canterbury Regional Council for
resource consents to take and use
water from the Waimakariri and
Rakaia Rivers and for all associated
consents required for the
construction and operation of the
Central Plains Water Enhancement
Scheme

Selwyn District Council for resource
consents to construct and operate
the Central Plains Water
Enhancement Scheme

AND

IN THE MATTER OF

a notice of requirement by Central
Plains Water Limited to:

Selwyn District Council for the
designation of land for works
associated with the construction and
operation of the Central Plains
Water Enhancement Scheme

**SUPPLEMENTARY EVIDENCE OF STEPHEN GORDON CHILES
IN RESPONSE TO DIRECTIONS OF COMMISSIONERS (NUMBER 2)**

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Introduction

1. My full name is Dr Stephen Gordon Chiles. My qualifications and experience, and the basis of this evidence, are set out in my primary brief of evidence prepared for this hearing.
2. I have prepared this supplementary evidence to address the request by the commissioners for:

“A plan of the location of residential and other sensitive receptors of construction or operational noise and the source of such noise.”
3. This request is slightly open ended and in interpreting exactly what is required, I have assumed that the key issues of concern are the construction and operational noise associated with activities which will occur as a consequence of confirming the designation for the reservoir, dam, intakes and headrace canal, and granting consents for pump stations. I have addressed these issues by marking up the ten appended drawings to show all noise sensitive receptors near to the proposed designation and pump stations. In these locations, all the noise sensitive receptors identified are houses, although had there been schools, hospitals or other noise sensitive buildings I would also have included them. This exercise of identifying houses and other noise sensitive activities is an early part of the work that the contractor will be required to undertake as part of the proposed conditions for the Construction Noise Management Plan, so that the contractor can determine where noise mitigation might be required.
4. The appended drawings show all houses within 250 metres of the proposed designation and pump stations. This distance is the furthest guideline distance I proposed for identifying dwellings subject to daytime construction noise other than blasting. I note that when the contractor conducts this process in detail the applicable distance will be less for some parts of the scheme. For Coalgate, uncontrolled construction noise would have the potential to exceed night-time noise limits at other houses in addition to those marked. However, as compliance will be required at the nearest houses identified this will also ensure compliance at houses further from the works.
5. The houses identified on the appended drawings were included in the noise receptors that I considered when preparing my main brief of evidence. As I noted in my main brief of evidence, I consider that it is practical and realistic for the Scheme to comply with the noise limits at these houses.

6. Houses within the proposed designation are not marked on the drawings as I have assumed that they will be vacated. However, in the event any of them are still occupied, I have assumed that would only be with the agreement of the occupier and the requiring authority, and that would include acceptance of construction noise from within the designation. The majority of these houses are within the dam footprint or inundation area, but there are also two houses within the designation at the front toe of the dam.
7. I note that the location of most houses has been determined primarily from inspection of aerial photographs taken in 2001. For this exercise, I have been conservative and included a few buildings which might be farm sheds and outbuildings. As part of the Construction Noise Management Plan all houses will be verified by physical inspection of the adjacent properties to the designation, and any new houses which are not shown on the aerial photographs or any which have been omitted will be identified.

Dr Stephen Chiles