

Notice of Requirement

Waimakariri District Council

Various locations across the Waimakariri District

Existing infrastructure asset sites

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NOTICE OF REQUIREMENT FOR DESIGNATION– PURSUANT TO SECTION 168 OF THE RESOURCE MANAGEMENT ACT 1991

Introduction

Waimakariri District Council operate and maintain essential infrastructure assets for the Waimakairiri community to deliver the core services of network infrastructure and solid waste collection and disposal in accordance with the Local Government Act 2002.

Pursuant to Section 168 of the Resource Management Act 1991 (RMA) Waimakariri District Council give notice of requirement (Notice) for the designation of various sites containing existing infrastructure assets to be included in the proposed Waimakariri District Plan.

Waimakariri District Council, as a local authority, is an approved requiring authority under Section 166 of the RMA. The designation of these sites is required in order to enable the ongoing operation and maintenance of utilities.

Description of the site to which this notice applies

The new designations are for either stormwater management, wastewater, water supply, solid waste or roading as follows:

| PURPOSE | SITE NAME | LOCATION | LEGAL DESCRIPTION |
|-----------------------|--|-------------------------------------|-------------------------------------|
| Stormwater Management | Sparks Lane Stormwater Management Area | 151 Northbrook Road, RANGIORA | Pt RS 793 (4.6ha) |
| Roading | All District formed legal roads | Various | Various |
| Solid Waste | Rangiora Transfer Station | 284 Flaxton Rd | LOT 1 DP 45749 (5.1ha) |
| Wastewater | Beach Road Wastewater Pump Station | 320 Beach Road, KAIAPOI | LOT 1 DP 83191 (0.04ha) |
| Wastewater | Bradleys Road Wastewater Pump Station | 956 Tram Road, WAIMAKARIRI DISTRICT | Pt RES 1302 (1.17ha) |
| Wastewater | Cones Road Wastewater Pump Station | 41 Adian Way, LOBURN | LOT 39 DP 301446 (3.82ha) |
| Wastewater | Gladstone Road Wastewater Pump Station | 37 Gladstone Road, WOODEND | LOT 2 DP 28078 (0.01ha) |
| Wastewater | Kaiapoi Wastewater Treatment Plan | 20 Ferry Road, KAIAPOI | Pt RES 270 (53.2ha), RES 48 (0.1ha) |

| | | | |
|--------------------------|---|-----------------------------------|----------------------------|
| Wastewater | Loburn Lea Wastewater Treatment Plant | 7 Adian Way, LOBURN | LOT 38 DP 301446 (0.87ha) |
| Wastewater | Oxford Wastewater Treatment Plant | 470 Woodstock Road, OXFORD | RES 1651 (87.4ha) |
| Wastewater | Ranfurly Street Wastewater Pump Station | 11 A Ranfurly Street, KAIAPOI | LOT 2 DP 23333 (0.03ha) |
| Wastewater | Rangiora Wastewater Treatment Plant | 141 Marsh Road, RANGIORA | Pt LOT 1 DP 3836 (53.05ha) |
| Wastewater | Raven Quay Wastewater Pump Station | 78 Raven Quay, KAIAPOI | LOT 11 DP 1280 (0.52ha) |
| Wastewater | Waikuku Wastewater Treatment Plant | 133 Kaiapoi Pa Road, WAIKUKU | Section 1 SO 15232 (1.6ha) |
| Wastewater | Woodend Wastewater Treatment Plant | 243 Gladstone Road, WOODEND | RS 39878 (9.2ha) |
| Wastewater & Solid waste | Oxford Wastewater Treatment Plant | 46 High Street, OXFORD | RS 41523 (1.2ha) |
| Water supply | View Hill Reservoir - | 351 Harmans Gorge Road, VIEW HILL | LOT 5 DP 4633 (158.1ha) |
| Water supply | Bay Road Reservoir - | 713 Bay Road, OXFORD | RS 6030 (12.4ha) |
| Water supply | Ayers Street Water Treatment Plant | 72 Ayers Street, RANGIORA | LOT 2 DP 348162 (0.6ha) |
| Water supply | Chinnerys Road Water Treatment Plant | 136 Chinnerys Road, WOODEND | LOT 1 DP 36880 (0.14ha) |
| Water supply | Cust Water Treatment Plant | 1683 Cust Road, CUST | Pt RS 3669 (0.3ha) |
| Water supply | Darnley Square Water Treatment Plant | 4 Sewell Street, KAIAPOI | Pt RS 320 (0.2ha) |
| Water supply | Domain Road Water Treatment Plant | 3719 South Eyre Road, EYREWELL | Pt RES 2953 (3.5ha) |
| Water supply | Gammons Water Pump Station | 221 Woodside Road, OXFORD | LOT 2 DP 518276 (0.06ha) |
| Water supply | Ohoka Water Treatment Plant | 352 A Bradleys Road, OHOKA | LOT 1 DP 55404 (0.02ha) |
| Water supply | Pegasus Water Treatment Plant | 15 Atkinsons Lane, PEGASUS | LOT 103 DP 394635 (0.79ha) |
| Water supply | Peraki Street Water Treatment Plant | 41 E Peraki Street, KAIAPOI | Pt LOT 2 DP 26735 (0.2ha) |

| | | | |
|--------------|--|--|--------------------------|
| Water supply | South Belt Water Treatment Plant | 11 Pentecost Road, RANGIORA | LOT 1 DP 529017 (3.5ha) |
| Water supply | Tram Road Water Treatment Plant | 1121 Tram Road, WAIMAKARIRI DISTRICT | RES 1338 (2.0ha) |
| Water supply | Two Chain Road Water Treatment Plant | 937 Two Chain Road, SWANNANOA | LOT 2 DP 323637 (0.64ha) |
| Water supply | Waikuku Campground Water Treatment Plant | 90 Park Terrace, WAIKUKU BEACH | Pt RES 3224 (261.8ha) |
| Water supply | West Eyreton Water Treatment Plant | 1468 North Eyre Road, WAIMAKARIRI DISTRICT | LOT 3 DP 44143 (0.69ha) |

A location plan of each site is attached as Appendix A and a full list of the designations in the format required by the National Planning Standards is attached as Appendix B.

All sites are owned by the Waimakariri District Council except the View Hill Reservoir site and the Bay Road Reservoir site which are privately owned but the Waimakariri District Council have legal access arrangements for use and maintenance.

Nature of the proposed works

The designations all relate to 32 established sites with existing infrastructure assets. The objective of Waimakariri District Council in designating these sites is to enable the continued use, maintenance and upgrading of the sites for their designated purpose. A description of the activities has been provided on a per activity basis.

This Notice does not provide for any significant development or physical change to the sites and therefore any future changes to the sites will be subject to an Outline Plan process.

Stormwater Management

One site is to be designated for stormwater management purposes. This is the Sparks Lane Stormwater Management Area (SMA) located at 151 Northbrook Road, Rangiora. The SMA consists primarily of a wetland designed to treat stormwater runoff from roofs and roads, but also acts as a detention basin in wet weather events to attenuate peak flow in wet weather events.

Maintenance activities involve mowing, re-planting and clearing drain outlets and basins of accumulated debris and sediment. The day to day functioning of the SMA does not involve any mechanical parts therefore there is no noise associated with the site. Maintenance activities occur on an 'as needed basis' and will be of a short duration when required.

Wastewater

13 of the sites are to be designated for wastewater purposes. These sites are located throughout the Waimakariri District and include a number of Wastewater Treatment Plants (WWTP) and Wastewater Pumping Stations (WWPS).

The Eastern District Wastewater Scheme services Rangiora, Kaiapoi, Woodend, Pegasus, Waikuku Beach, Mandeville, Kairaki, Tuahiwi and Woodend Beach and makes up 9 of the proposed designation sites. The scheme consists of WWTP at Rangiora, Woodend, Kaiapoi and Waikuku Beach. WWPS are also located in Kaiapoi, Mandeville, Woodend and Rangiora. The WWTP consist of screens, wetlands, oxidation ponds or aeration ponds plus small buildings to support the treatment process. The WWPS typically include pumps either underground or housed in a building onsite and may include an above ground odour filter or tanks.

The Oxford wastewater scheme consists of the Oxford WWTP and irrigation area. The treatment plant includes an activated sludge tank, holding ponds and disinfection unit. Wastewater is pumped from a holding basin through the disinfection unit and irrigated to land via two centre pivot irrigators.

The Loburn Lea wastewater scheme includes Loburn Lea WWTP and WWPS on Cones Road. The treatment plant consists of an inflow wastewater pump station, two recirculation tanks, a settlement tank and treatment plant and UV disinfection.

The WWTP generally do not require the use and storage of hazardous substances. The Oxford WWTP involves the use of liquid chlorine (sodium hypochlorite) which is stored on site (up to 200L). An emergency diesel generator is also located at the Oxford WWTP and Woodend WWTP to ensure that the treatment plants can continue to operate in the event of an electricity outage. 200L of diesel is stored at the Oxford Plant and diesel will also be stored at the Woodend Plant but the final volume is yet to be determined.

The operation of WWPS involves pumps located underground or above ground in buildings which are in operation 24 hours a day. These pumps do generate noise but are largely unnoticeable from neighbouring properties even though some WWPS are in close proximity to dwellings. WWPS are visited weekly or fortnightly by Council staff or contractors to undertake visual inspections and any necessary maintenance. Maintenance activities are not typically extensive but may require periodic replacement of parts or entire pumps in the event of equipment failure. Some WWPS include emergency generators which operate in the event of an electricity outage. The generators are diesel powered and diesel is stored on site (within generator fuel tank). When the generators require refuelling, tanks are filled by fuel delivery vehicles.

Each of the WWTP operates slightly differently with the Oxford WWTP requiring the most active management. Except for the Oxford WWTP, the WWTP are visited weekly for inspections and maintenance. This maintenance often includes clearing of mechanical screens and visual inspections of other equipment. The Oxford WWTP is visited daily to collect samples for testing. Both WWPS and WWTP also require periodic maintenance to landscaping on site.

The majority of sites are connected to the Council SCADA system which is used to monitor and control plant or equipment. The SCADA system is used to identify potential faults and is used to alert Council staff to any issues.

A schematic of each wastewater scheme is attached as Appendix C.

Water Supply

13 of the sites are to be designated for water supply, 1 pumping station and 12 Water Treatment Plants (WTP).

The WTP generally include a reservoir and small buildings housing treatment equipment and pumps. Some WTPs include wells on site, and some supply wells are at separate sites. Water is pumped from source wells to the WTP where it is stored in reservoirs and treated. Treated water may then be stored on site before being pumped into the reticulation network. The Gammans Pump Station includes a reservoir and pump located in a building. Some sites include permanent back up diesel generators for use during times of power cut, whereas other sites include outlets to enable temporary diesel generators to be used when required. When the generators require refuelling, tanks are filled by fuel delivery vehicles.

Two sites are scheduled for upgrades. The reservoir at the Gammans Creek Reservoir is to be replaced with a new larger tank. The Bay Road Reservoir is also to be replaced with a larger tank. Following the designation of these sites, the effects of these upgrades will be considered through an Outline Plan Process once detailed planning and design has been undertaken.

The operation of WTP generally involves weekly inspections to check treatment equipment and levels of treatment chemicals, as well as periodic visits to take water samples. The frequency of sampling varies depending on the nature of the site and the population served. Treatment chemicals will be replenished from either chemicals brought onto the site, or stored on site. Any treatment chemicals stored on site are mostly in volumes less than 1000L and are stored in accordance with the Hazardous Substances and New Organisms Act 1996 (HSNO). Diesel levels in generators are also checked and if additional diesel is required, tanks are filled by fuel delivery vehicles.

As with WWTP and WWPS, periodic maintenance of landscaping is required and consists of mowing any grass and trimming trees as necessary.

Schematic diagrams of the water supply networks which include these sites are attached in Appendix D.

Solid Waste

Two of the sites proposed to be designated are for the purpose of solid waste management and include the Rangiora Transfer Station, and the Oxford Wastewater Treatment Plant/Transfer Station which is to be designated for both Solid Waste and Wastewater purposes.

The Rangiora Transfer Station (Southbrook Resource Recovery Park) provides an intermediary location for the storage, sorting and off site disposal of waste and diverted materials. Waste and diverted materials from the WDC kerbside collection, commercial operators and the general public and public litter bins and drop off points are taken to the transfer station. This material is temporarily stored on site before being taken to either Ecocentral, Kate Valley Landfill, commercial recyclers, cleanfill sites or commercial composting facilities.

The transfer station consists of outdoor storage facilities, buildings, weighbridge and parking and manoeuvring areas. The site is fenced, landscaped and vegetated.

Consents are held from Waimakariri District Council and Environment Canterbury.¹ A review of the Waimakariri District Council resource consents held for the site has been undertaken.

The original consent issued to establish and operate the transfer station was RC960442. This was varied by RC055171 and an additional consent was granted for the extension and upgrading of the transfer station. Together these consents manage the current operation of the transfer station via the following consent conditions²:

- Offensive wastes shall not be permitted to enter the site. Offensive waste shall include tannery waste, resins, offal, poultry waste, meat works waste, animal manure, and any other matter reasonably considered to be offensive by virtue of its odour or its putrescible condition or which might otherwise pose a risk to health and safety. Prominent signage shall be erected at the office/kiosk to bring to the attention of customers/visitors to the refuse station the requirement to declare any hazardous waste to the office/kiosk operator.
- Any hazardous or offensive wastes which shall be dumped at the refuse transfer station and which shall be observed by staff employed on the site shall forthwith be removed from other waste, and relocated and stored in the hazardous goods area. Storage shall be in sealed bins. Such waste will be removed for disposal off-site as soon as shall be reasonably practicable, and in any event within 6 weeks of the time of interception.
- A manifest of any and all hazardous or offensive wastes found to have entered the site, and the actions taken in respect thereof shall be maintained. A summary of the manifest shall be submitted to the Waimakariri District Council and to the Canterbury Regional Council at six-monthly intervals from the date of commencement of use of the site. The manifest shall be available for inspection at all reasonable times by Waimakariri District Council and/or Canterbury Regional Council staff.
- The No 1 hazardous waste area shall be internally compounded, so as to contain any spillages which may occur within the hazardous waste area. The containment shall be designed so as to have a capacity of not less than 1000 litres. In the event that the volume of the

¹ Waimakariri District Council: RC960442, RC055171, RC105086. Environment Canterbury CRC971142.3

² This list does not include conditions relating to the construction and development of the transfer station.

hazardous/offensive waste stored in the hazardous goods area exceeds 1000 litres, the same shall be forthwith removed from the site, and redirected to appropriate disposal facilities. The No 2 hazardous waste store shall be internally compounded.

- The use of the site shall be conducted, and buildings and landscaping developed, so as to ensure that as a result of any activity conducted within the site, the noise level (L_{10}) as measured within the notional boundary of any rural dwelling shall not exceed the following limits:

Monday to Saturday 7 a.m to 7 p.m – 55 dBA L_{10}

Sunday & Public Holidays 9 a.m to 7 p.m – 55 dBA L_{10}

At all other times – 45 dBA L_{10}

- 75 dBA L-max

When measured at the boundary of any adjacent industrial zoned site, the noise level shall not exceed 65 dBA L_{10} .

Noise levels shall be measured and assessed in accordance with the requirements of NZS6801:1991 – measurement of sound – and NZS6802:1991 – assessment of environmental sound.

- Artificial lighting shall:
 - Be directed downwards.
 - Be directed away from site boundaries and the road reserve such that light spill onto neighbouring sites or the road reserve is avoided.
 - Not distract traffic or interfere with any traffic aids or signals.
- Signage:
 - There shall be no more than one freestanding sign.
 - Any sign shall not exceed 7.5 metres in height.
 - The display area of any sign shall not exceed 12m².
- All landscaping within the site shall be maintained, and all trees shall be provided with irrigation to the satisfaction of the Council's Resource Planning and Regulation Manager. Any diseased, dying or dead trees and/or shrubs shall forthwith be removed, and the same shall be replaced as soon as shall be reasonably practicable and in accordance with good horticultural practices, with trees and or shrubs of the same or a similar species.
- The hours of operation for the transfer station shall be not more than the following:
 - Open to staff for operational purposes –
7.00 a.m. to 10.00 p.m.
 - Open to the public:
7.00 a.m. to 4.30 p.m. (1st April to 31st September).
7.00 a.m. to 8.30 p.m. (1st October to 31st March).

The site may be open to the public every day except Christmas Day and Good Friday, unless such opening shall otherwise be contrary to law.

- With the exception of material placed in recycling bins, and hardstill disposed at the hardfill drop off area, any and all refuse brought onto and disposed of at the site shall be removed from the site for disposal off-site to appropriate facilities as soon as shall be reasonably practicable and in any event within a maximum period of 24 hours from the time that the refuse is brought on to the site.
- A management plan shall be prepared, in consultation where appropriate with the Waimakariri District Council, the Canterbury Regional Council, the New Zealand Fire Office, and the Medical Officer of Health, which shall provide inter alia for the following:
 - Regular site clean-ups throughout each day;
 - A regular litter control programme to ensure that litter is collected both on the site and on the adjoining road network (where such litter can reasonably be attributable to the transfer station operation) on at least a daily basis;
 - The accurate recording of refuse types and tonnages;
 - The regular washing down of the pit area during each day;
 - The thorough wash down of the refuse pit area at the end of each working day;
 - The implementation and management of appropriate pest control programmes to ensure pests, including rodents, flies and birds are kept under control;
 - A load checking programme which, as a minimum, shall include the following:
 - The random inspection of incoming refuse loads;
 - The inspection of any suspicious refuse loads to ensure that the same do not contain hazardous or offensive material;
 - The recording of all load checking undertaken and the results found;
 - The training of transfer station personnel to assist them to recognise hazardous and offensive wastes.
 - Safety, contingency and emergency plans in the event that there is a spillage, or other emergency situation, which plans shall specify the appropriate staff responsibilities, and the actions required to control and redirect any and all spillages to the contaminated water sump, in the event that there is a spillage in an uncontaminated stormwater/run-off area;
 - A register of any and all complaints logged with the refuse transfer station, which register shall detail the nature of the complaint, the name of the complainant if that is available, the date and time of the complaint and the action taken to remedy or deal with the complaint;
 - A 24-hour telephone number available to members of the public, in the event that there is a complaint relating to the site. Such number shall be shown on signage on the Rangiora-Flaxton Road entry point.

All staff employed on the site shall be familiar with the management plan, and with their responsibilities thereunder. Copies of the management plan shall be made available to the

Waimakariri District Council, and to the Canterbury Regional Council, and to any adjoining landowner who may request the same.

It is proposed to include these conditions on the designation for the Rangiora Transfer Station.

The Oxford Transfer Station is located on the same site as the Oxford Wastewater Treatment Plant. The transfer station accepts waste and diverted materials from commercial operators and the general public. Residual waste is then taken to the Rangiora Transfer Station, paper and cardboard is transported directly to commercial recycling facilities and green waste is mulched for use on site. If the green waste capacity is exceeded, it is then transported to a commercial composting facility. The site is fully fenced, landscaped and vegetated.

Consents are held from Waimakariri District Council and Environment Canterbury.³ A review of Waimakariri District Council resource consents held for the site has been undertaken. The establishment and operation of the transfer station was originally authorised by RC940213. This has been subsequently varied by RC 045185. Together these consents manage the current operation of the transfer station via the following consent conditions:

- Retail sales from the site shall be limited to recyclable materials brought into the site and to bulk and packaged products of garden waste compost.
- Domestic quantities of household potentially hazardous wastes may be stored on site. Storage of potentially hazardous waste shall be within an appropriate and secured hazardous goods store which complies with the *"guidelines for siting, construction and use of short-term hazardous waste storage facilities"* CHWWP Report R02/4 June 2002.
- Potentially hazardous wastes shall be stored on the site for a maximum of six weeks.
- A manifest of potentially hazardous waste entering the site and actions taken in respect of such waste shall be maintained. A report on the manifest shall be submitted to the Waimakariri District Council at six monthly intervals from the commencement of use on the site.
- The use of the site shall be conducted and buildings so developed to ensure that as a result of any activity within the site, the average maximum noise level (L10) as measured at any dwelling shall not exceed the following limits:
Monday to Saturday – 8.00 a.m. – 8.30 p.m. – 55 dBA
At all other times including Sundays and Public Holidays – 45 dBA

No single noise event shall exceed 75 dBA (Lmax) or exceed the background noise level by 30 dBA, whichever is the lower.

The noise levels shall be measured and assessed in accordance with the requirements of NZS 6801 and NZS 6802:1991, or their successors.

³ Waimakariri District Council: RC940213, RC045185. Environment Canterbury: CRC952151.1 and CRC952152

- Any exterior lighting shall be directed away from adjacent residential activities and High Street so as to avoid nuisance or, in the case of High Street, create a distraction or glare that would create a traffic hazard.
- The maximum permitted area of signs at the entrance to the site shall be 2.5m². Signs within the site shall not be restricted as to area or number.
- Landscape treatment within the site shall be maintained including irrigation, and removal of any diseased, dying or dead trees and shrubs which shall be replaced as soon as practicable with trees or shrubs of the same, or similar species and height where possible.
- Hours of operation of the transfer station are limited to seven days per week 8.00 am to 4.30 pm between 1 April and 31 September in any year and 8.00 am to 8.30 pm between 1 October and 31 March in the following year.
- On each day that the transfer station is operating refuse is to be removed from the site or stored in bins for transportation.

It is proposed to include these conditions on the designation for the Oxford Transfer Station.

Roading

This Notice of Requirement also includes all formed district roads within the Waimakariri District, including associated assets such as kerb and channel, footpaths, streetlights and traffic signals. The designation will apply to all sealed and unsealed formed roads and include the entire width of the road corridor. The designation will not apply to any unformed 'paper' roads.

The designation will allow for the continued use of the roads and any maintenance and upgrades required to ensure it is safe and efficient. Maintenance activities include a range of repair works to the road surface and shoulder, removing debris and gritting of ice. The road network is patrolled at varying frequency determined by the road hierarchy classification. Maintenance may also be required to the kerb and channel, footpaths and pedestrian crossing facilities, fords, roadside stormwater channels, traffic signage and roadside vegetation. The frequency of these activities is determined by Council's Contractor and generally include removal of litter, debris and vegetation, mowing roadsides, maintaining visibility of traffic signs. Infrequent activities include major road repairs and upgrades such as road widening.

Assessment of effects on the environment

The effects which may result from the proposed sites differ depending on the designated purpose. An assessment of the effects on the environment has been provided on a per activity basis.

Stormwater management

It is considered that the effects associated with the continued operation of the Sparks SMA will be negligible. The site is operated on a day to day basis in a passive manner and does not involve any mechanical equipment. The site requires mowing and clearing of accumulated debris as necessary. Access to the site from Northbrook Road is available and vehicle numbers frequenting the site will be low. As a result, the effects on the amenity of the area will be minimal.

Wastewater and water supply

The effects associated with the WWTP, WWPS and WTP are minor and form part of the existing environment. All sites have available access from the road to accommodate the expected vehicles to undertake maintenance activities. Traffic generation associated with the sites is low due to most sites only being visited weekly. Overall, the traffic effects associated with the sites are minor.

Noise generation will occur from the sites and it is recognised that some pumps are in close proximity to neighbouring dwellings. The pumps are however located either underground or in enclosed buildings which mitigates effects on neighbouring properties. Noise levels have been assessed at some sites and typically do comply with the District Plan noise limits. Where noise has been an issue, this has been addressed by adopting additional mitigation. No major redevelopment works are proposed through this designation process. If any redevelopment works are proposed in future, they will be subject to the Outline Plan process. Overall, as the pump stations are existing, have been lawfully established and there will be no change to the noise levels and frequencies at these sites, there will be no additional effects of the designation.

Sites where hazardous substances are used and stored are done so in accordance with the required HSNO approval and therefore any adverse effects arising from hazardous substances are appropriately managed through that legislation.

Additionally, it is proposed that the ongoing conditions associated with those sites that are subject to a resource consent will be included within the designation for those sites. As such, they will continue to be managed and operated in accordance with the conditions of those resource consents. This will ensure that any adverse effects currently avoided or mitigated by way of consent conditions continue to be managed appropriately.

Solid Waste

There are a range of effects associated with the Rangiora and Oxford transfer stations however these are already avoided, remedied or mitigated by the existing resource consents and as such will be minor. Additionally, the sites have been lawfully established and the effects now form part of the existing environment. Traffic effects are acceptable because the sites have an access that is located and designed to minimise potential conflict and ensure safe and efficient ingress and egress from the sites. Both sites also provide sufficient manoeuvring room for all types of vehicles entering and navigating the site.

Noise and visual effects are mitigated through the consent conditions on the respective resource consents and it is proposed to include these conditions on the designations. Noise is managed by the hours of operation and the requirement to meet noise limits. Visual effects are managed by the requirement for landscaping and restrictions around the storage and removal of refuse. Effects associated with hazardous substances are managed by the consent conditions specifying storage requirements for the Rangiora Transfer Station and prohibiting hazardous substances at the Oxford Transfer Station.

Roading

The ongoing use, maintenance and upgrading of roads and associated assets in the road corridor are critical to the day to day functioning of the Waimakariri District. Noise and vibration associated with the use of roads is anticipated by the community and the effects associated with continued use are considered acceptable.

The designation will provide for the maintenance and upgrading of formed roads and associated assets to ensure they are safe and efficient. The maintenance and upgrading of the formed roads in the district will involve earthworks, heavy vehicle movements and additional noise. These effects are of a short term, localised and temporary nature and are inherent to the ongoing functioning of the roads. These temporary effects will be of short duration and are necessary to maintain the roading network.

Conclusion

Overall the effects of the continued operation and maintenance of the existing infrastructure assets described above will be minor, and are not expected to increase from the effects currently generated from the activities on these sites. Where adverse effects are currently managed through resource consent conditions, it is proposed that these conditions be included within the designation.

Any significant upgrades proposed to these sites in future that might result in adverse effects or a change in level of effect, will be managed through the Outline Development Process.

Statutory considerations

Section 171(1) of the RMA sets out that when considering a Notice, a Territorial Authority must, subject to Part 2, consider the effects on the environment of allowing the requirement, having particular regard to matters (a) – (d). For completeness, matters (a) – (d) of Section 171(1) are considered as follows:

Section 171(1)(a): ‘any relevant provisions of (i) a national policy statement:(ii) a New Zealand coastal policy statement: (iii) a regional policy statement or proposed regional policy statement: (iv) a plan or proposed plan.’

National Policy Statements

There are five National Policy Statements and it is considered none of them are particularly relevant to this Notice. The Waikuku WWTP is located in the Coastal Environment therefore the New Zealand

Coastal Policy Statement (NZCPS) is relevant to this site.⁴ The NZCPS sets out a number of objectives and policies that seek to achieve the purpose of the RMA in relation to the coastal environment of New Zealand. Objectives 1 and 2 seek to safeguard the integrity, form and functioning of the coastal environment and preserve the natural character of the coastal environment. Objective 5 seeks to ensure coastal hazard risks, taking into account climate change are taken into account. Policy 6 recognises that the provision of infrastructure in the coastal environment is important to the social, economic and wellbeing of people and communities. As the Waikuku WWTP is already established and operating, there will be no further effects on the coastal environment. The on-going day to day functioning will not give rise to any adverse effects that will impact the coastal environment.

Canterbury Regional Policy Statement

Chapter 5 of the Regional Policy Statement relates to Land Use and Infrastructure. The provisions of Chapter 5 place particular emphasis on the recognition of regionally significant infrastructure to community wellbeing and the need for its establishment, retention and enhancement as appropriate.⁵ This Notice is considered to be consistent with the CRPS objectives and policies, specifically Objective 5.2.3, Policy 5.3.5, Policy 5.3.6 and Policy 5.3.9. Together this Objective and these Policies, seek to achieve the provision of safe, efficient and effective regionally significant infrastructure where adverse effects are avoided, remedied or mitigated. The designation of existing sites will enable the effective continued operation of these core services to provide for the social and economic wellbeing of the Waimakariri District Community. The adverse effects associated with the existing sites are acceptable and managed by proposed conditions to the designations where necessary.

Regional Plans

The Canterbury Land and Water Regional Plan and the Waimakariri River Regional Plan both apply in the Waimakariri District. Neither regional plan has rules specifically relating to infrastructure assets but the CLWRP seeks that regionally significant infrastructure is enabled, resilient and positively contributes to the economic, cultural and social wellbeing through its efficient and effective operation, on-going maintenance, repair, development and upgrading.⁶ It is considered this Notice is consistent with the CLWRP.

District Plan

The Waimakariri District Plan seeks to achieve efficient and effective transport networks including cycleways and utilities that maintain or enhance the community's social, economic and cultural wellbeing, and its health and safety with associated adverse effects avoided, remedied or mitigated.⁷ This Notice is consistent with these outcomes as the purpose of the designation is to provide core services to the community and the environmental effects will be acceptable due to the sites being existing and effects associated with any maintenance and upgrades being temporary.

⁴ Identified within the Coastal Environment on mapping for the proposed Waimakariri District Plan.

⁵ Regionally significant infrastructure includes strategic land transport networks and arterial roads, sewage collection, treatment and disposal networks, community land drainage infrastructure and community potable water systems.

⁶ Policy 3.3

⁷ Objectives 11.1.1, 11.2.1, Policy 11.2.1.1

Section 171(1)(b): ‘Whether adequate consideration has been given to alternative sites, routes, or methods of undertaking the work if (i) the requiring authority does not have an interest in the land sufficient for undertaking the work; or (ii) it is likely that the work will have a significant adverse effect on the environment.’

As the Notice applies to existing infrastructure sites and the adverse effects on the environment will not be significant, alternative locations have not been considered.

Section 171(1)(c): ‘whether the work and designation are reasonably necessary for achieving the objectives of the requiring authority for which the designation is sought.’

In this case this Notice seeks to designate existing infrastructure and the work to establish the sites has already occurred. It is considered that the designations, as a planning tool, are reasonably necessary to continue to provide for the Waimakariri District Council, as a Requiring Authority, to ensure the ongoing operation and maintenance of utilities in order to deliver core services to the Waimakariri community. The alternative to designating these sites is to rely on the District Plan rules and/or the resource consent process. These options do not provide a clear signal about the existing and intended use and function of these sites, or a certain or long-term solution to effectively and efficiently address the ongoing use of these sites. It is considered that the designation is the preferred mechanism as it provides a clear methodology for changes to these sites (Outline Plan).

Section 171(1)(d): ‘any other matter the territorial authority considers reasonably necessary in order to make a recommendation on the requirement.’

There are no other matters considered reasonably necessary to make a decision on this Notice.

Consultation

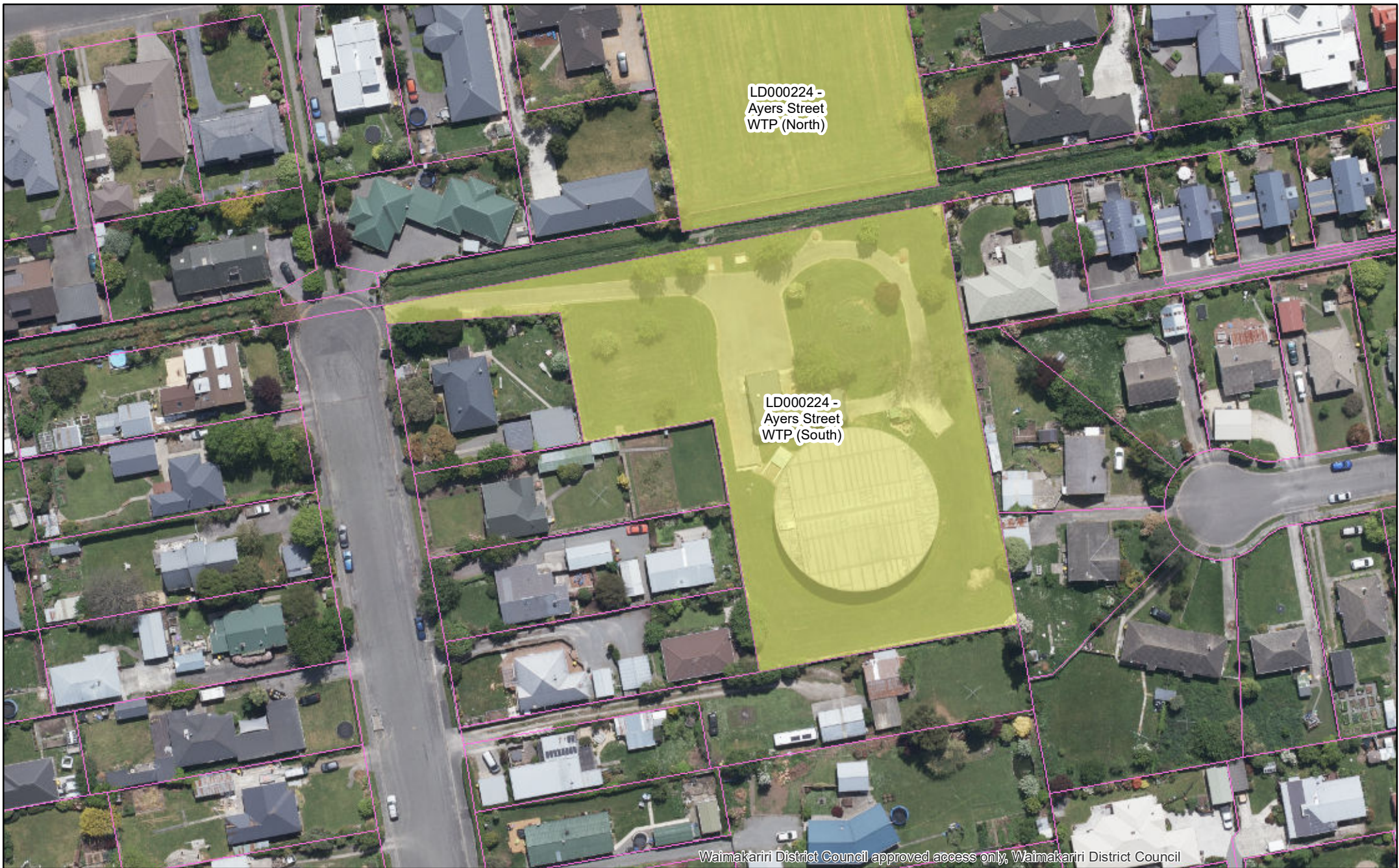
No consultation has been undertaken to date on the basis that the activities already exist on the sites and therefore there is no change in effects from those that currently exist. Consultation will be carried out with the landowners of the View Hill and Bay Road sites where upgrade works are planned.

Conclusion

Waimakariri District Council gives notice of its requirement to designate land containing existing infrastructure assets for land drainage, wastewater, water supply, solid waste management and roading. The preceding assessment of effects concludes that the effects associated with the continued operation and maintenance of the assets are minor and it is considered the designations are consistent with the relevant statutory provisions. Given this, it is considered the designations and this Notice are consistent with the principles and purpose the RMA.

Appendix A – Location Plans





LD000224 -
Ayers Street
WTP (North)

LD000224 -
Ayers Street
WTP (South)

Waimakariri District Council approved access only, Waimakariri District Council





Waimakariri District Council approved access only, Waimakariri District Council









Waimakariri District Council approved access only, Waimakariri District Council





Waimakariri District Council approved access only, Waimakariri District Council









LD000196
- Domain
Road WTP

Waimakariri District Council approved access only, Waimakariri District Council

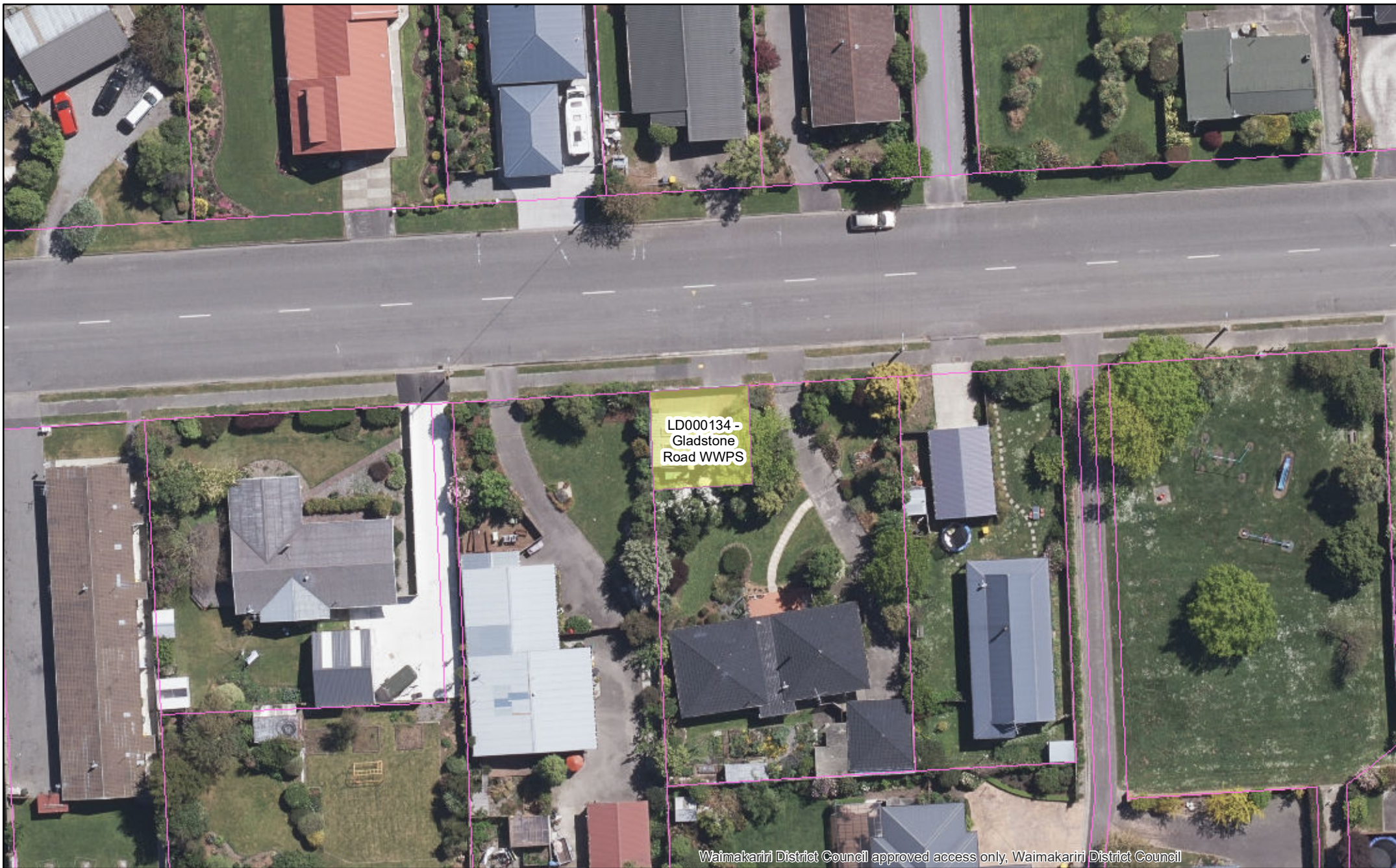




LD000206 -
Gammons
WPS

Waimakariri District Council approved access only, Waimakariri District Council







Waimakariri District Council approved access only, Waimakariri District Council





LD000109
- Loburn
Lea WWTP

Waimakariri District Council approved access only, Waimakariri District Council





LD000232 -
Ohoka WTP

Waimakariri District Council approved access only, Waimakariri District Council







LD000131 -
Oxford WWTP

Waimakariri District Council approved access only, Waimakariri District Council







Waimakariri District Council approved access only, Waimakariri District Council





LD000113 -
Ranfurly
Street WWPS

Waimakariri District Council approved access only, Waimakariri District Council







Waimakariri District Council approved access only, Waimakariri District Council









Waimakariri District Council approved access only, Waimakariri District Council





LD000738 -
Sparks Lane
SMA (South)

Waimakariri District Council approved access only, Waimakariri District Council









LD000226 -
View Hill
Reservior

Waimakariri District Council approved access only, Waimakariri District Council







LD000128 -
Waikuku WWTP

Waimakariri District Council approved access only, Waimakariri District Council





Waimakariri District Council approved access only, Waimakariri District Council





LD000133 -
Woodend WWTP

Waimakariri District Council approved access only, Waimakariri District Council



Appendix B – Waimakariri District Council Designations

| Sparks Lane Stormwater Management Area | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Stormwater Management |
| Site identifier | Pt RS 793; 151 Northbrook Road, Rangiora. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary, except secondary where it intersects with Rangiora East Connection (WDC - xx) |
| Conditions | No |
| Additional information | n/a |

| District formed legal roads | |
|--|---------------------------------|
| Designation unique identifier | |
| Designation Purpose | Roading |
| Site identifier | All District formed legal roads |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Rangiora Transfer Station | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Solid Waste |
| Site identifier | Lot 1 DP 45749; 284 Flaxton Road. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | <ul style="list-style-type: none"> Offensive wastes shall not be permitted to enter the site. Offensive waste shall include tannery waste, resins, offal, poultry waste, meat works waste, animal manure, and any |

| | |
|--|---|
| | <p>other matter reasonably considered to be offensive by virtue of its odour or its putrescible condition or which might otherwise pose a risk to health and safety. Prominent signage shall be erected at the office/kiosk to bring to the attention of customers/visitors to the refuse station the requirement to declare any hazardous waste to the office/kiosk operator.</p> <ul style="list-style-type: none"> Any hazardous or offensive wastes which shall be dumped at the refuse transfer station and which shall be observed by staff employed on the site shall forthwith be removed from other waste, and relocated and stored in the hazardous goods area. Storage shall be in sealed bins. Such waste will be removed for disposal off-site as soon as shall be reasonably practicable, and in any event within 6 weeks of the time of interception. A manifest of any and all hazardous or offensive wastes found to have entered the site, and the actions taken in respect thereof shall be maintained. A summary of the manifest shall be submitted to the Waimakariri District Council and to the Canterbury Regional Council at six-monthly intervals from the date of commencement of use of the site. The manifest shall be available for inspection at all reasonable times by Waimakariri District Council and/or Canterbury Regional Council staff. The No 1 hazardous waste area shall be internally compounded, so as to contain any spillages which may occur within the hazardous waste area. The containment shall be designed so as to have a capacity of not less than 1000 litres. In the event that the volume of the hazardous/offensive waste stored in the hazardous goods area exceeds 1000 litres, the same shall be forthwith removed from the site, and redirected to appropriate disposal facilities. The No 2 hazardous waste store shall be internally compounded. The use of the site shall be conducted, and buildings and landscaping developed, so as to ensure that as a result of any activity conducted within the site, the noise level (L_{10}) as measured within the notional boundary of any rural dwelling shall not exceed the following limits: |
|--|---|

| | |
|--|---|
| | <p>Monday to Saturday 7 a.m to 7 p.m – 55 dBA L₁₀ Sunday & Public Holidays 9 a.m to 7 p.m – 55 dBA L₁₀ At all other times – 45 dBA L₁₀ - 75 dBA L-max</p> <p>When measured at the boundary of any adjacent industrial zoned site, the noise level shall not exceed 65 dBA L₁₀. Noise levels shall be measured and assessed in accordance with the requirements of NZS6801:1991 – measurement of sound – and NZS6802:1991 – assessment of environmental sound.</p> <ul style="list-style-type: none"> Artificial lighting shall: <ul style="list-style-type: none"> Be directed downwards. Be directed away from site boundaries and the road reserve such that light spill onto neighbouring sites or the road reserve is avoided. Not distract traffic or interfere with any traffic aids or signals. Signage: <ul style="list-style-type: none"> There shall be no more than one freestanding sign. Any sign shall not exceed 7.5 metres in height. The display area of any sign shall not exceed 12m². All landscaping within the site shall be maintained, and all trees shall be provided with irrigation to the satisfaction of the Council's Resource Planning and Regulation Manager. Any diseased, dying or dead trees and/or shrubs shall forthwith be removed, and the same shall be replaced as soon as shall be reasonably practicable and in accordance with good horticultural practices, with trees and or shrubs of the same or a similar species. The hours of operation for the transfer station shall be not more than the following: <ul style="list-style-type: none"> Open to staff for operational purposes – 7.00 a.m. to 10.00 p.m. Open to the public: <ul style="list-style-type: none"> 7.00 a.m. to 4.30 p.m. (1st April to 31st September). 7.00 a.m. to 8.30 p.m. (1st October to 31st March). |
|--|---|

| | |
|--|---|
| | <p>The site may be open to the public every day except Christmas Day and Good Friday, unless such opening shall otherwise be contrary to law.</p> <ul style="list-style-type: none"> • With the exception of material placed in recycling bins, and hardfill disposed at the hardfill drop off area, any and all refuse brought onto and disposed of at the site shall be removed from the site for disposal off-site to appropriate facilities as soon as shall be reasonably practicable and in any event within a maximum period of 24 hours from the time that the refuse is brought on to the site. • A management plan shall be prepared, in consultation where appropriate with the Waimakariri District Council, the Canterbury Regional Council, the New Zealand Fire Office, and the Medical Officer of Health, which shall provide inter alia for the following: <ul style="list-style-type: none"> ○ Regular site clean-ups throughout each day; ○ A regular litter control programme to ensure that litter is collected both on the site and on the adjoining road network (where such litter can reasonably be attributable to the transfer station operation) on at least a daily basis; ○ The accurate recording of refuse types and tonnages; ○ The regular washing down of the pit area during each day; ○ The thorough wash down of the refuse pit area at the end of each working day; ○ The implementation and management of appropriate pest control programmes to ensure pests, including rodents, flies and birds are kept under control; ○ A load checking programme which, as a minimum, shall include the following: <ul style="list-style-type: none"> ▪ The random inspection of incoming refuse loads; ▪ The inspection of any suspicious refuse loads to ensure that the same do not contain hazardous or offensive material; ▪ The recording of all load checking undertaken and the results found; |
|--|---|

| | |
|------------------------|--|
| | <ul style="list-style-type: none"> ▪ The training of transfer station personnel to assist them to recognise hazardous and offensive wastes. ○ Safety, contingency and emergency plans in the event that there is a spillage, or other emergency situation, which plans shall specify the appropriate staff responsibilities, and the actions required to control and redirect any and all spillages to the contaminated water sump, in the event that there is a spillage in an uncontaminated stormwater/run-off area; ○ A register of any and all complaints logged with the refuse transfer station, which register shall detail the nature of the complaint, the name of the complainant if that is available, the date and time of the complaint and the action taken to remedy or deal with the complaint; ○ A 24-hour telephone number available to members of the public, in the event that there is a complaint relating to the site. Such number shall be shown on signage on the Rangiora-Flaxton Road entry point. <p>All staff employed on the site shall be familiar with the management plan, and with their responsibilities thereunder. Copies of the management plan shall be made available to the Waimakariri District Council, and to the Canterbury Regional Council, and to any adjoining landowner who may request the same.</p> |
| Additional information | n/a |

| Beach Road Wastewater Pump Station | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Lot 1 DP 83191; 320 Beach Road, Kaiapoi. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Bradleys Road Wastewater Pump Station | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Part of Pt RES 1302; 956 Tram Road, Ohoka. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Cones Road Wastewater Pump Station | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Part of Lot 39 DP 301446; 41 Adian Way, Loburn. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Gladstone Road Wastewater Pump Station | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Lot 2 DP 28078; 37 Gladstone Road, Woodend. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Kaiapoi Wastewater Treatment Plant | |
|---|---|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Pt RES 270 and RES 48; 20 Ferry Road, Kaiapoi |
| Lapse date | |

| | |
|--|---------|
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Loburn Lea Wastewater Treatment Plan | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Lot 38 DP 301446; 7 Adian Way, Loburn. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Oxford Wastewater Treatment Plant | |
|--|---------------------------------------|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | RES 1651; 470 Woodstock Road, Oxford. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Ranfurly Street Wastewater Pump Station | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Lot 2 DP 2333; 11A Ranfurly Street, Kaiapoi. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Rangiora Wastewater Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Pt Lot 1 DP 3836; 141 Marsh Road, Rangiora. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary, except secondary where it intersects with Rangiora East Connection (WDC - xx) |
| Conditions | No |
| Additional information | n/a |

| Raven Quay Wastewater Pump Station | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Part of Lot 11 DP 1280; 78 Raven Quay, Kaiapoi. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Waikuku Wastewater Treatment Plant | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | Section 1 SO 15232; 133 Kaiapoi Pa Road, Waikuku. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Woodend Wastewater Treatment Plant | |
|---|---------------------------------------|
| Designation unique identifier | |
| Designation Purpose | Wastewater |
| Site identifier | RS 39878; 243 Gladstone Road, Woodend |
| Lapse date | |

| | |
|--|---------|
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Oxford Wastewater Treatment Plant and Transfer Station | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Wastewater and Solid Waste |
| Site identifier | RS 4153, Lot 4 DP 51992; 46 High Street, Oxford |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | <ul style="list-style-type: none"> Retail sales from the site shall be limited to recyclable materials brought into the site and to bulk and packaged products of garden waste compost. Domestic quantities of household potentially hazardous wastes may be stored on site. Storage of potentially hazardous waste shall be within an appropriate and secured hazardous goods store which complies with the <i>"guidelines for siting, construction and use of short-term hazardous waste storage facilities"</i> CHWWP Report R02/4 June 2002. Potentially hazardous wastes shall be stored on the site for a maximum of six weeks. A manifest of potentially hazardous waste entering the site and actions taken in respect of such waste shall be maintained. A report on the manifest shall be submitted to the Waimakariri District Council at six monthly intervals from the commencement of use on the site. The use of the site shall be conducted and buildings so developed to ensure that as a result of any activity within the site, the average maximum noise level (L10) as measured at any dwelling shall not exceed the following limits: Monday to Saturday – 8.00 a.m. – 8.30 p.m. – 55 dBA |

| | |
|------------------------|---|
| | <p>At all other times including Sundays and Public Holidays – 45 dBA</p> <p>No single noise event shall exceed 75 dBA (Lmax) or exceed the background noise level by 30 dBA, whichever is the lower.</p> <p>The noise levels shall be measured and assessed in accordance with the requirements of NZS 6801 and NZS 6802:1991, or their successors.</p> <ul style="list-style-type: none"> Any exterior lighting shall be directed away from adjacent residential activities and High Street so as to avoid nuisance or, in the case of High Street, create a distraction or glare that would create a traffic hazard. The maximum permitted area of signs at the entrance to the site shall be 2.5m². Signs within the site shall not be restricted as to area or number. Landscape treatment within the site shall be maintained including irrigation, and removal of any diseased, dying or dead trees and shrubs which shall be replaced as soon as practicable with trees or shrubs of the same, or similar species and height where possible. Hours of operation of the transfer station are limited to seven days per week 8.00 am to 4.30 pm between 1 April and 31 September in any year and 8.00 am to 8.30 pm between 1 October and 31 March in the following year. On each day that the transfer station is operating refuse is to be removed from the site or stored in bins for transportation. |
| Additional information | n/a |

| View Hill Reservoir | |
|-------------------------------|--------------|
| Designation unique identifier | |
| Designation Purpose | Water Supply |

| | |
|--|---|
| Site identifier | Part of Lot 5 DP 4633; 351 Harmans Gorge Road, View Hill. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Bay Road Reservoir | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Part of RS 6030; 713 Bay Road, Oxford. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Ayers Street Water Treatment Plant | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 2 DP 348162; 72 Ayers Street, Rangiora. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Chinnerys Road Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 1 DP 36880; 136 Chinnerys Road, Woodend. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |

| | |
|------------------------|-----|
| Additional information | n/a |
|------------------------|-----|

| Cust Water Treatment Plant | |
|--|-----------------------------------|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Pt RS 3669; 1683 Cust Road, Cust. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Darnley Square Water Treatment Plant | |
|--|--------------------------------------|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Pt RS 320; 4 Sewell Street, Kaiapoi. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Domain Road Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Part of Pt RES 2953; 3719 South Eyre Road, Eyrewell. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Gammans Water Pump Station | |
|-----------------------------------|---|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 2 DP 518276; 221 Woodside Road, Oxford. |

| | |
|--|---------|
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Ohoka Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 1 DP 55404; 352A Bradleys Road, Ohoka. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Pegasus Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 103 DP 394635; 15 Atkinsons Lane, Pegasus. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Peraki Street Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Pt Lot 2 DP 26735; 41E Peraki Street, Kaiapoi. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| South Belt Water Treatment Plant | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 1 DP 529017; 11 Pentecost Road, Rangiora. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Tram Road Water Treatment Plant | |
|--|--------------------------------------|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | RES 1338; 1121 Tram Road, Swannanoa. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Two Chain Road Water Treatment Plant | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 2 DP 323637; 937 Two Chain Road, Swannanoa. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| Waikuku Campground Water Treatment Plant | |
|--|--|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Part of Pt RES 3224; 90 Park Terrace, Waikuku Beach. |
| Lapse date | |

| | |
|--|---------|
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

| West Eyreton Water Treatment Plant | |
|--|---|
| Designation unique identifier | |
| Designation Purpose | Water Supply |
| Site identifier | Lot 3 DP 44143; 1468 North Eyre Road, West Eyreton. |
| Lapse date | |
| Designation hierarchy under section 177 of the Resource Management Act | Primary |
| Conditions | No |
| Additional information | n/a |

Appendix C – Wastewater Schemes

Appendix C – Wastewater Schemes

Figure 1: Eastern District's Scheme: Overview Schematic

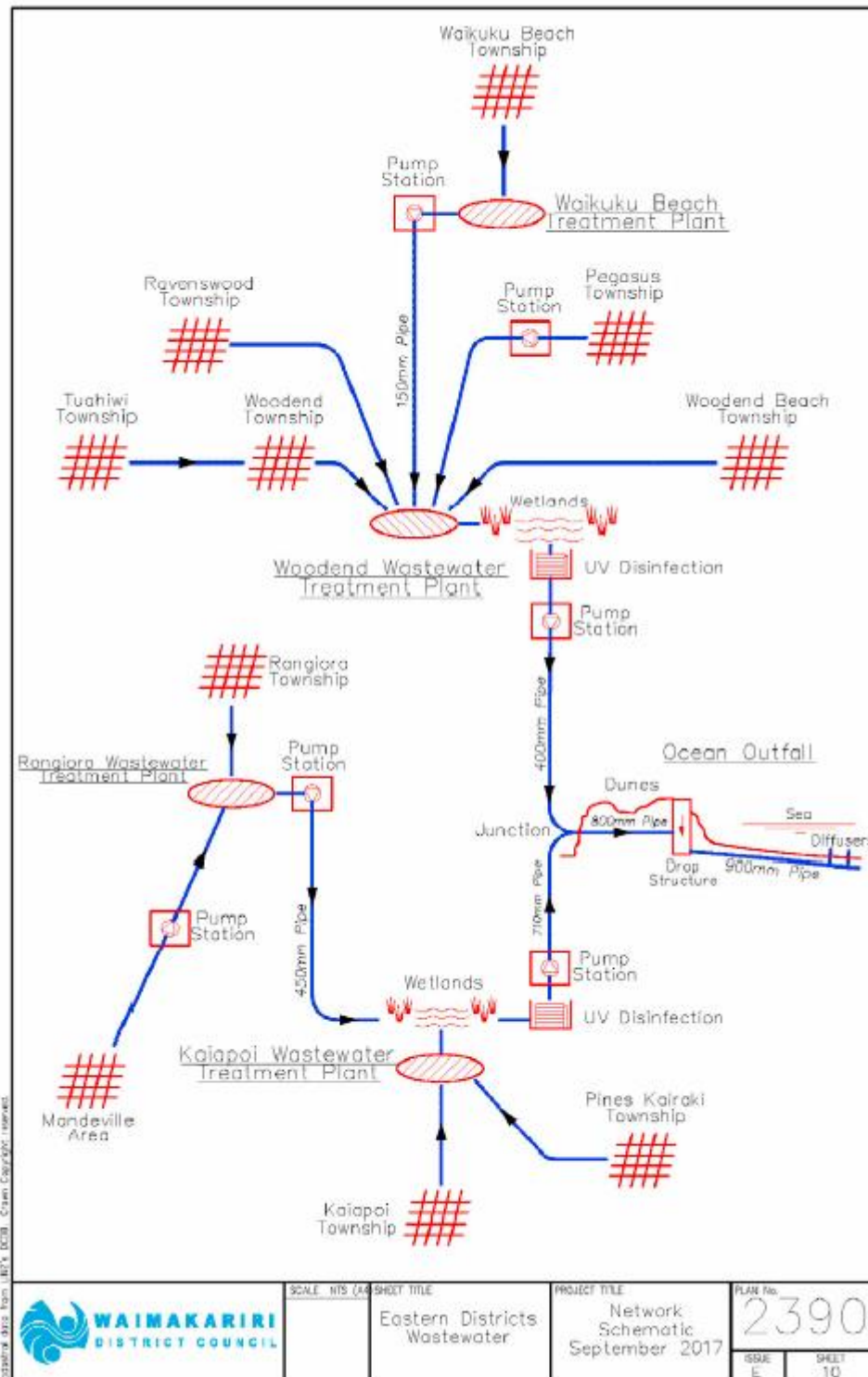
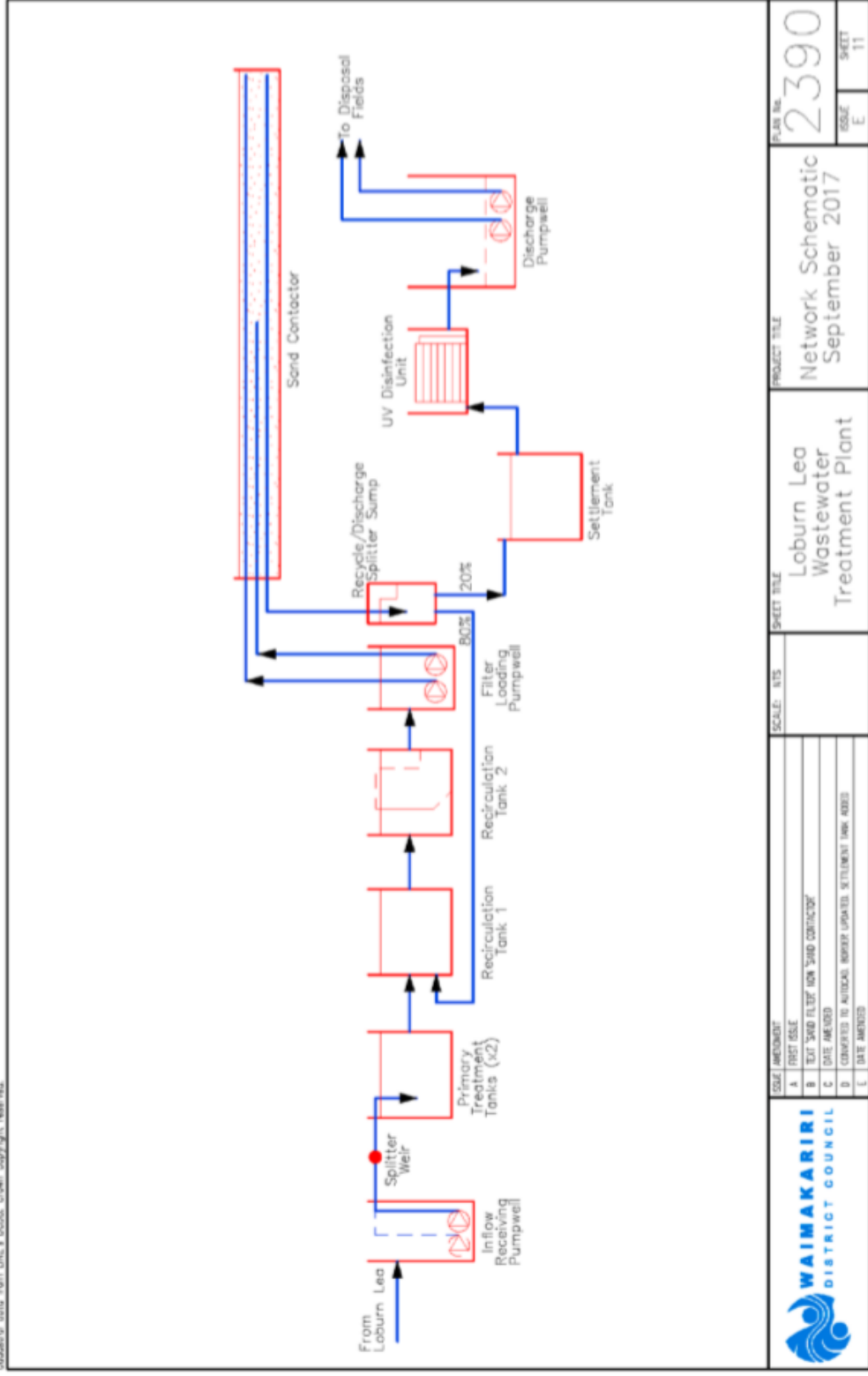


Figure 1: Network Schematic

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| ISSUE | AMENDMENT |
|-------|---|
| A | FIRST ISSUE |
| B | TEXT 'SAND FILTER' NOW 'SAND CONTACTOR' |
| C | DATE AMENDED |
| D | CORRECTED TO AUTOCAD WORKSET UPDATES, SETTLEMENT TANK ADDED |
| E | DATE AMENDED |

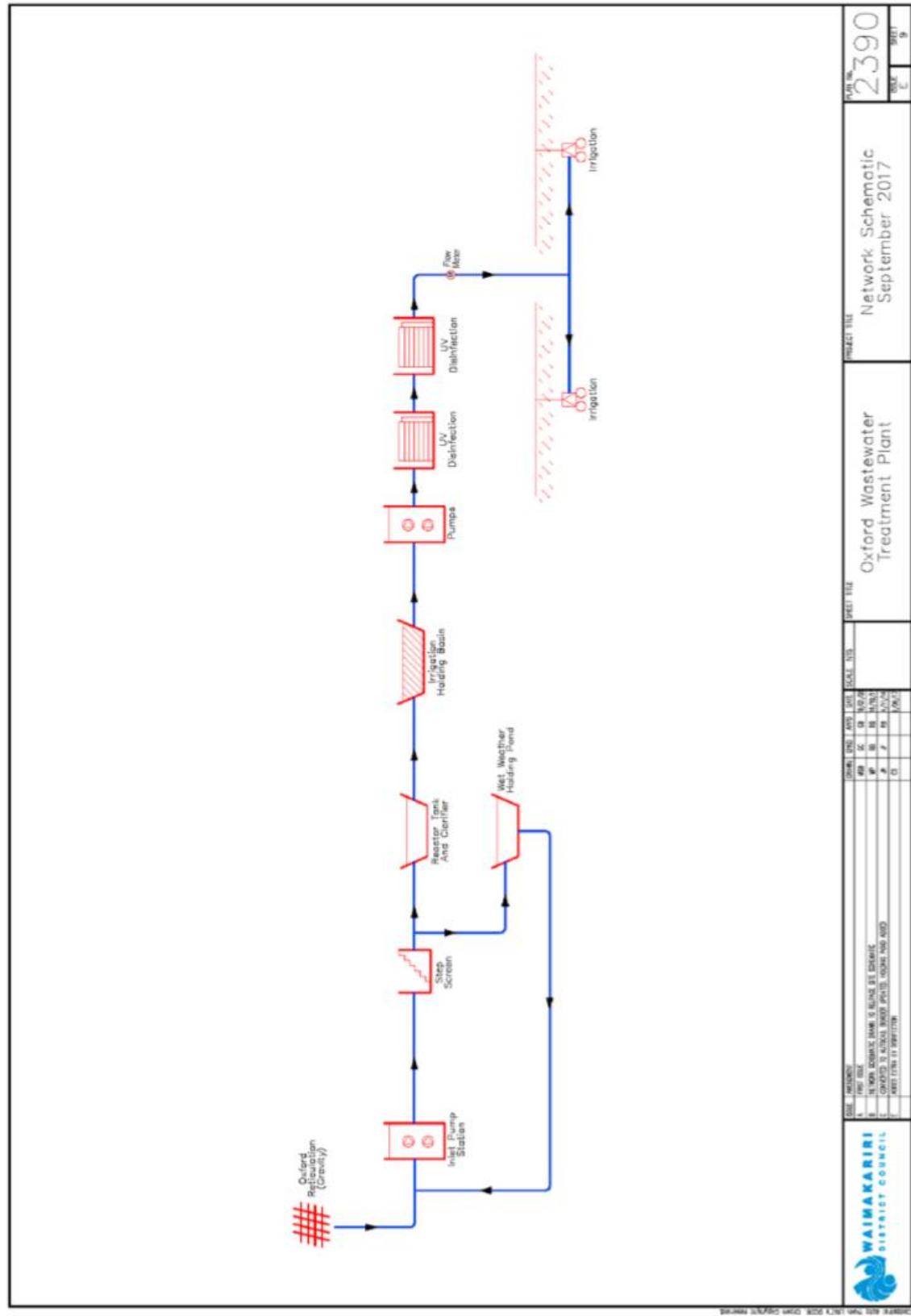
| | |
|--------|------|
| SCALE: | INTS |
|--------|------|

| | |
|-------------|---------------------------------------|
| SHEET TITLE | Loburn Lea Wastewater Treatment Plant |
|-------------|---------------------------------------|

| | |
|---------------|----------------------------------|
| PROJECT TITLE | Network Schematic September 2017 |
|---------------|----------------------------------|

| | |
|----------|------|
| PLAN No. | 2390 |
| ISSUE | E |
| SHEET | 11 |

Figure 1: Network Schematic

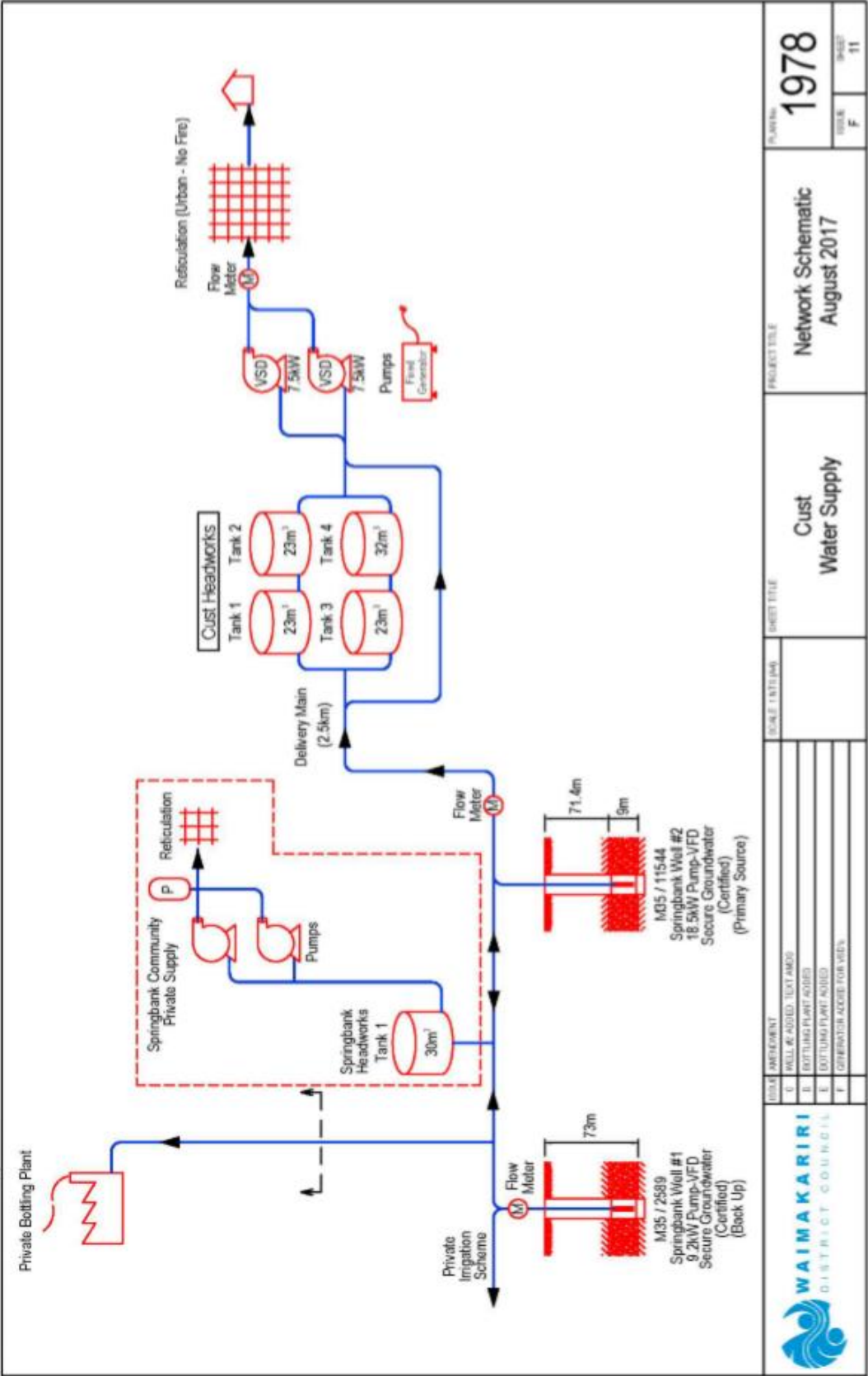


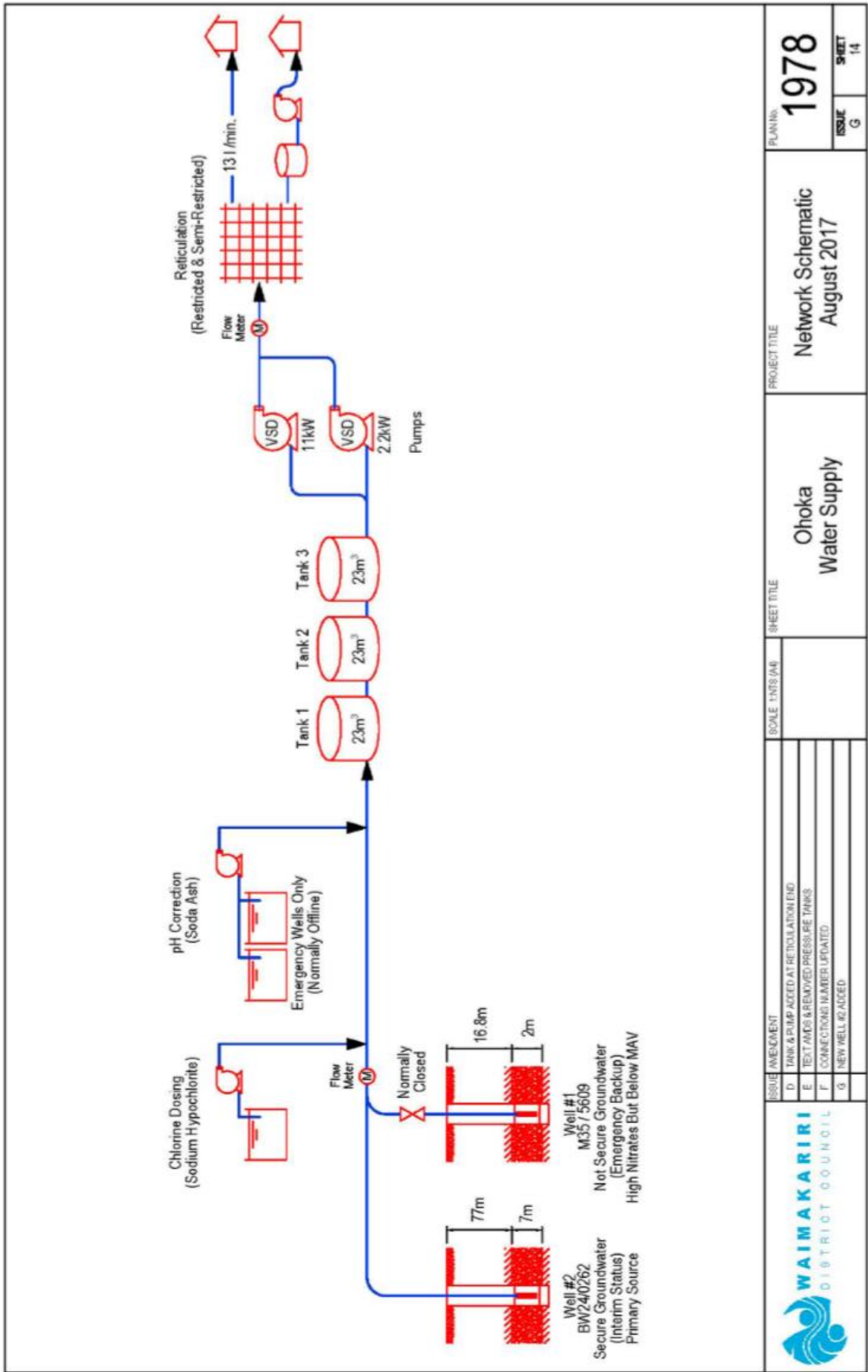
| | | | | | | |
|---|--|--|--|--|--|---|
| | | Oxford Wastewater Treatment Plant | | Network Schematic September 2017 | | PLAN No. 2390 |
| WAIMAKARIRI DISTRICT COUNCIL | | PROJECT FILE | | DRIFT FILE | | TABLE C |
| REVISIONS | | DATE | | BY | | REVISION |
| 1. NEW FILE | | 10/09/17 | | JG | | 1. NEW FILE |
| 2. NEW DESIGN NAME & ROAD ST DESIGN | | 10/09/17 | | JG | | 2. NEW DESIGN NAME & ROAD ST DESIGN |
| 3. CHANGED TO AROUND BRIDGE PILES - ROAD AND ROAD | | 10/09/17 | | JG | | 3. CHANGED TO AROUND BRIDGE PILES - ROAD AND ROAD |
| 4. ADDED LINES TO BRIDGES | | 10/09/17 | | JG | | 4. ADDED LINES TO BRIDGES |

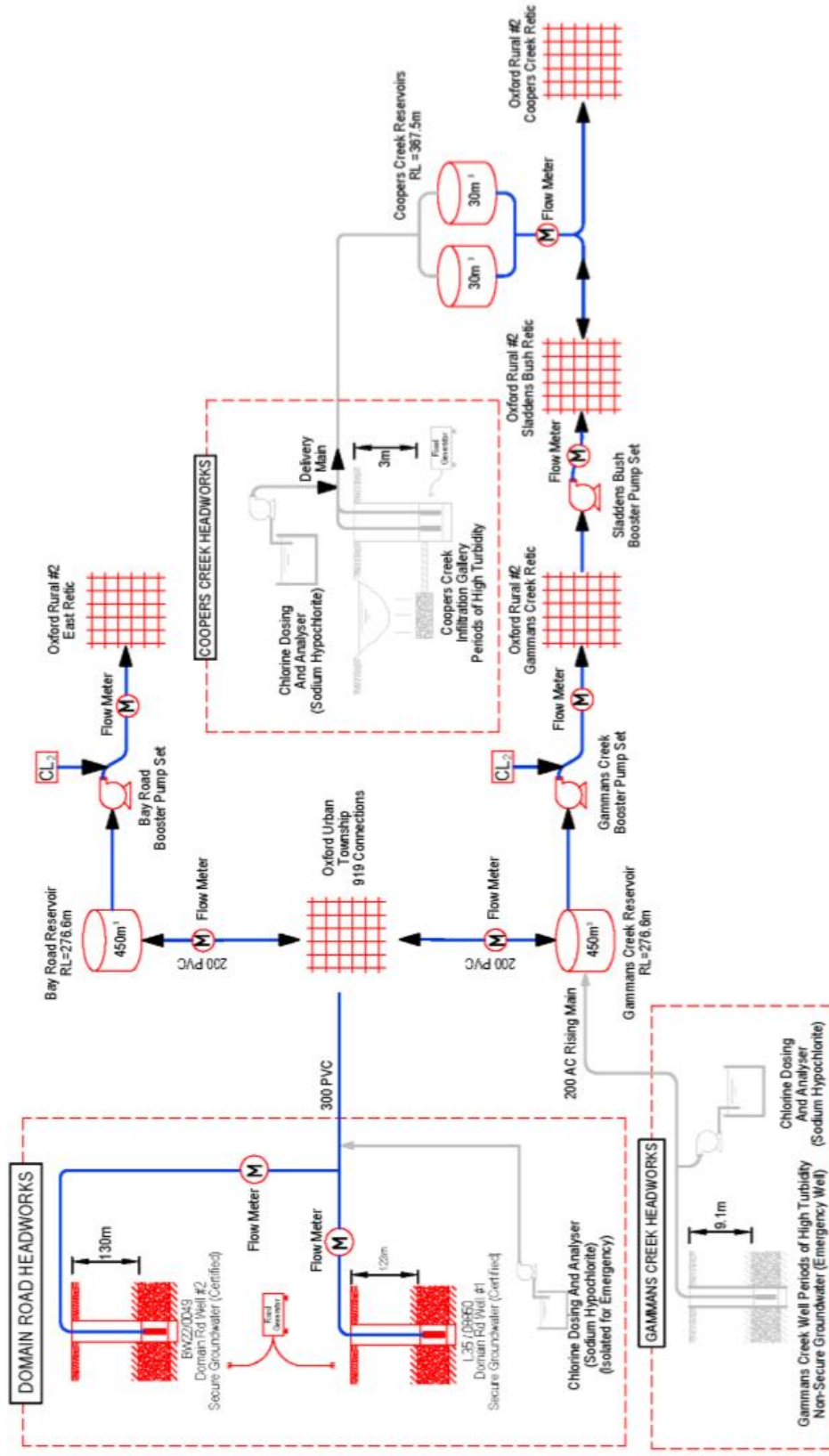
Appendix D – Water Supply Schemes

Appendix D – Water Supply Schemes

Figure 1: Network Schematic







| ISSUE | AMENDMENT |
|-------|--------------------------------------|
| G | MINOR TEXT AMENDS |
| H | LAYOUT UPDATED AND FLOW METERS ADDED |
| I | CONNECTIONS NUMBER UPDATED |
| J | OXFORD URBAN AND RURAL #2 JOINED |

SCALE 1:1NTE (M)

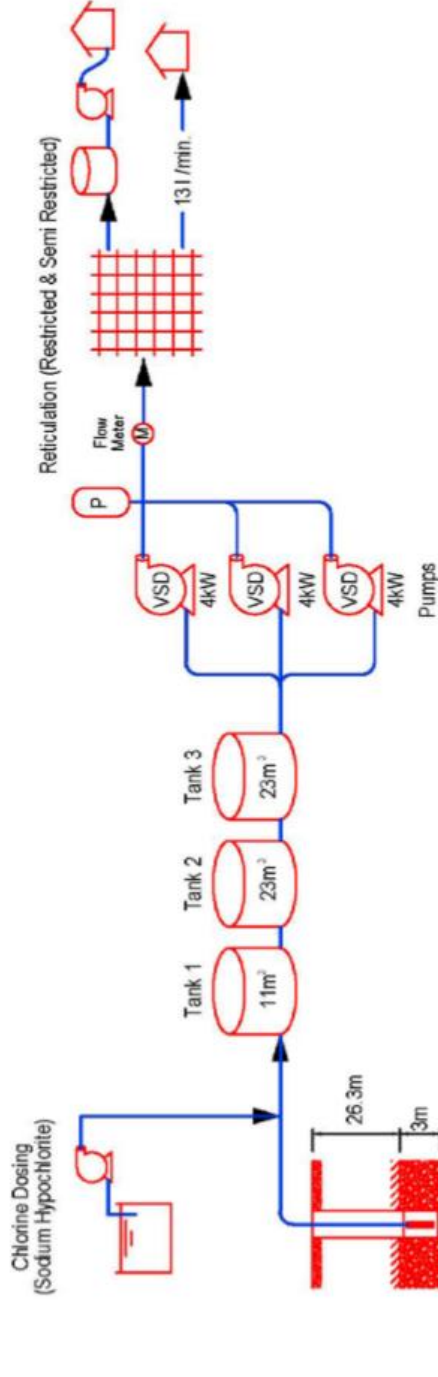
OXFORD URBAN & RURAL #2
Water Supply

PROJECT TITLE
Network Schematic
August 2017

PLAN No
1978

ISSUE
J

SHEET
1



M35 / 0181
Not Secure
Turbidity < 1 NTU 95% of Time From
Limited Turbidity Monitoring
Elevated Nitrates But Below MAV



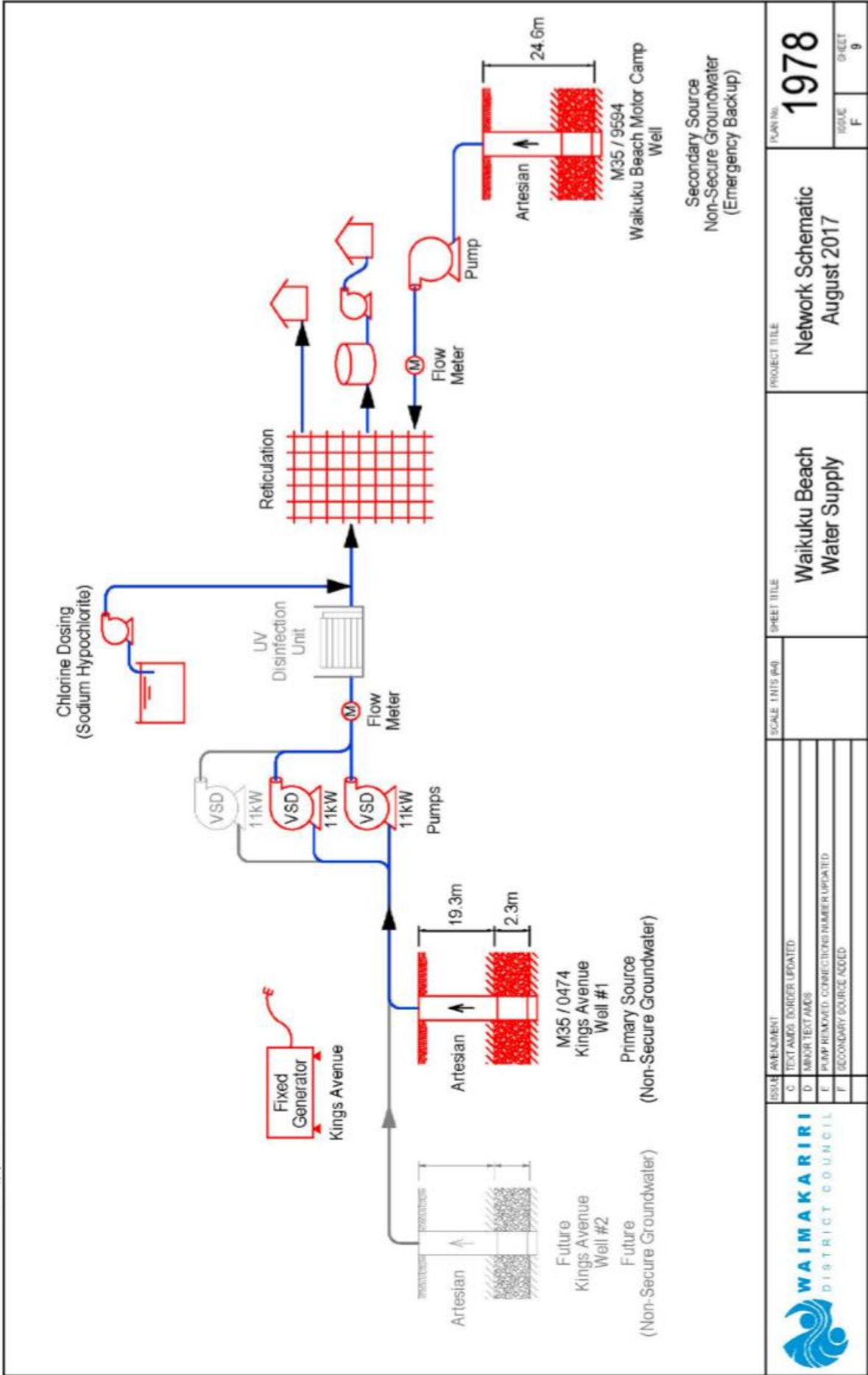
| ISSUE | AMENDMENT |
|-------|---------------------------------------|
| C | MINOR TEXT AMDS |
| D | MINOR TEXT AMDS |
| E | PUMP ADDED CONNECTIONS NUMBER AMENDED |
| F | MINOR TEXT AMDS |

| SCALE | UNITS (MM) |
|-------|------------|
| | |

SHEET TITLE
Poyntz Rd
Water Supply

PROJECT TITLE
Network Schematic
August 2017

| | |
|----------|------|
| PLAN No. | 1978 |
| ISSUE | F |
| SHEET | 12 |

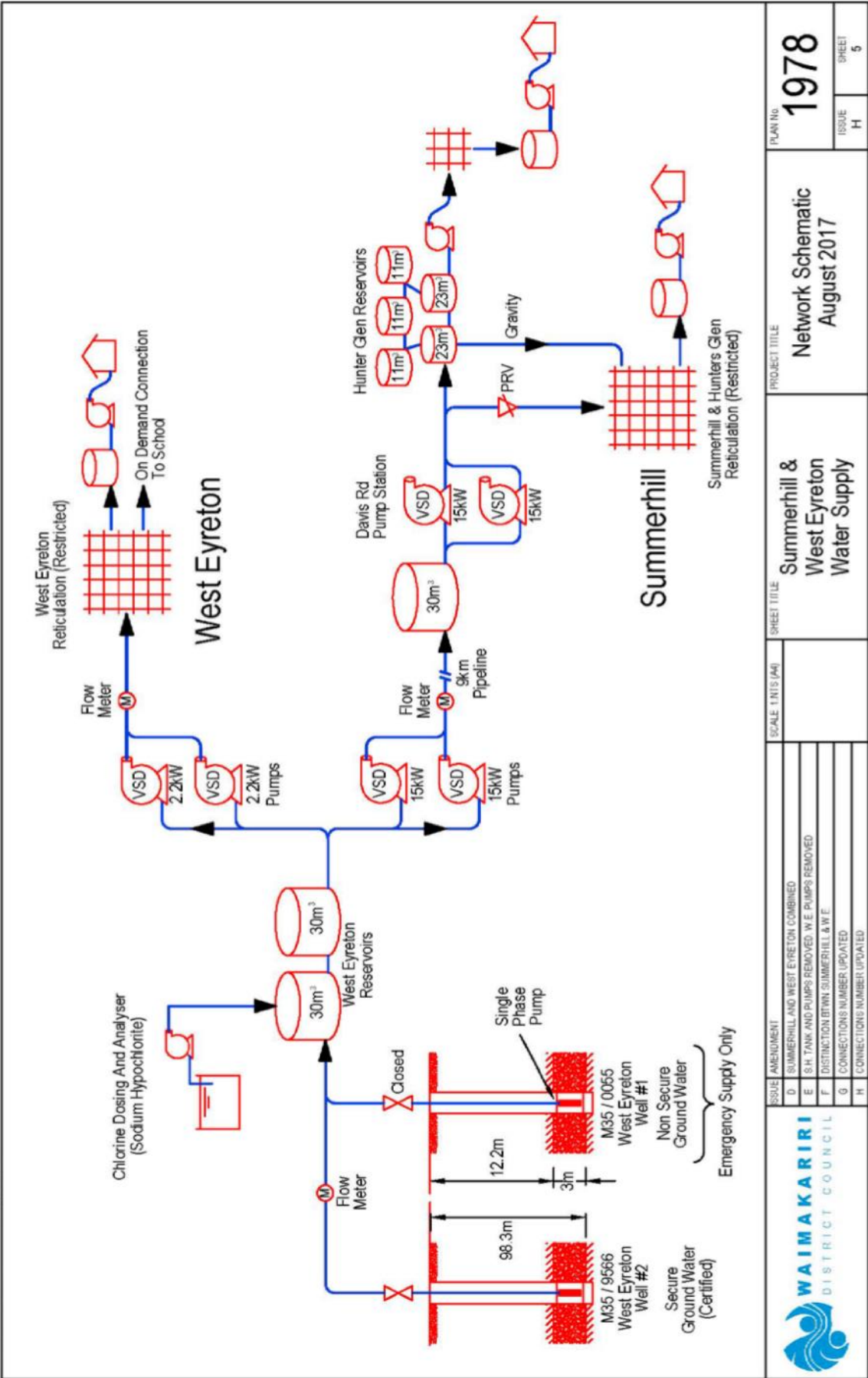


| ISSUE | REVISION |
|-------|---|
| C | TEXT AND BORDER UPDATED |
| D | MINOR TEXT AMENDS |
| E | PUMP REMOVED CONNECTIONS NUMBER UPDATED |
| F | SECONDARY SOURCE ADDED |

SCALE: 1:100 (A4)

SHEET TITLE
Waikuku Beach Water Supply

PROJECT TITLE
Network Schematic August 2017

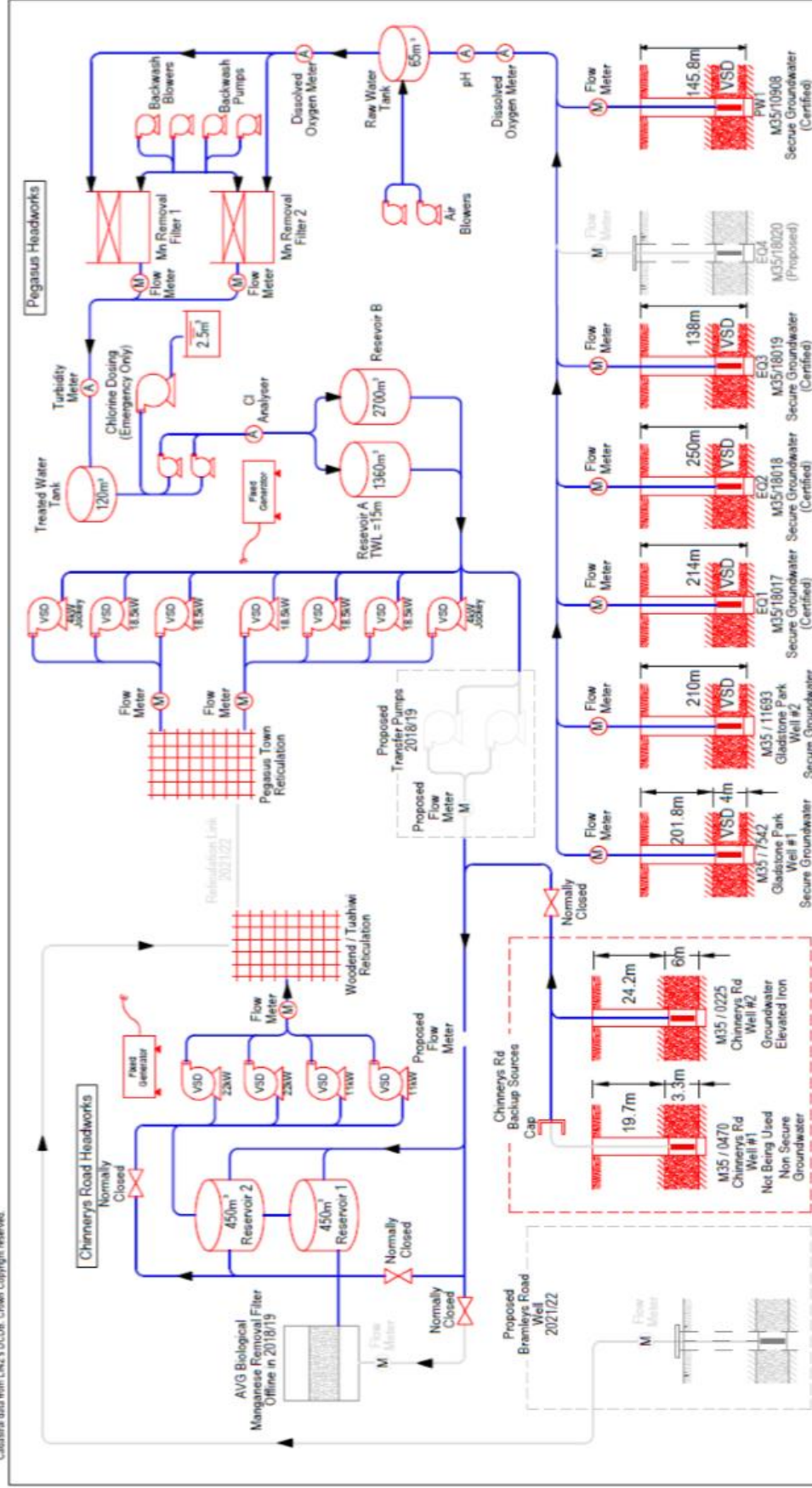



| ISSUE | AMENDMENT |
|-------|--|
| D | SUMMERHILL AND WEST EYRETON COMBINED |
| E | 8 M TANK AND PUMPS REMOVED. W.E. PUMPS REMOVED |
| F | DISTINCTION BTWN SUMMERHILL & W.E. |
| G | CONNECTIONS NUMBER UPDATED |
| H | CONNECTIONS NUMBER UPDATED |

| SCALE | UNITS (MM) | SHEET TITLE |
|-------|------------|--|
| | | Summerhill & West Eyreton Water Supply |

| PROJECT TITLE | PLAN No |
|-------------------------------|---------|
| Network Schematic August 2017 | 1978 |

| ISSUE | SHEET |
|-------|-------|
| H | 5 |



| | | | | | | | | |
|---|-------|---|-------|-----------|---------------------------------------|--|------------|-------------|
|  WAIMAKARIRI DISTRICT COUNCIL | ISSUE | AUDDITIONMENT | SCALE | TXTS (A4) | SHEET TITLE | PLAN NO. | | |
| | A | FIRST ISSUE | | | Woodend - Pegasus Water Supply | Proposed Network Schematic 2018 | | |
| | B | CHANGED EQ 3 AND EQ 4 ECAN WELL NUMBERS | | | | | ISSUE B | SHEET 19 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |