

Chapter/Appendix	Section	Amendments
Chapter 1: General	1.1.1 The Engineering Standards	Replace paragraph 3: <i>The ES is the KDC's recommended technical specification.</i>
Chapter 1: General	1.1.1 The Engineering Standards	Replace paragraph 4: <i>If you identify any issues with this document, or any areas where improvements can be made, please contact Council at council@kaipara.govt.nz unless otherwise specified in the ES</i>
Chapter 1: General	1.1.4.3 WDC Documents	Documents: Appendix A- Health and Safety Requirements for Procurement Documents, November 2021, Contractor Health and Safety Handbook, WDC Urban Design Guidelines and Policy #0074 - Uncompleted Works Bond (2011) are not used by KDC. Replace 'Roading Assessment and Maintenance Data Collection Form' with 'RAMM Template KDC' data collection form -available on request. Replace 'Public Utility Connection/Disconnection application form with KDC 'Application to Connect to Services' -available from the KDC website or on request.
Chapter 1: General	1.2.1 General	Add: Refer to w. KDC Stormwater and Land Drainage Bylaw, x. KDC Wastewater Drainage Bylaw, y. <i>KDC does not have a Water Supply Bylaw, z. KDC does not have a Trade Waste Bylaw .</i>
Chapter 1: General	1.4.1 Developers Representative	Replace: c. <i>'...indemnity insurance to the value of at least \$500,000.'</i>
Chapter 1: General	1.4.1 Developers Representative	Add: The Council does not expect to be provided with copies of commercially sensitive information, where this is not relevant to the assessment of an application. To the extent that designs provided to the Council contain intellectual property, once provided to the Council the information forms part of the public record and could be requested by members of the public. Accordingly, it is important that the owner of that intellectual property takes steps to ensure that its rights are protected under New Zealand Law.
Chapter 1: General	1.4.3 Insurance	Add: b. The Developer's SQEP(s) shall separately be covered by suitable current Professional Indemnity Insurance of not less than \$500,000.
Chapter 1: General	1.5.1.2 Alternative Designs	Replace 2nd sentence, 1st paragraph: <i>KDC may approve alternative designs provided it is satisfied that the alternative designs will achieve an equivalent function, and performance incorporating optimised whole of life outcomes, against the recommended standards specified in the engineering standards.</i>
Chapter 1: General	1.6.5.3 Registered and Licensed Contractors	Add: Alternatively, contractor under supervision of the KDC Maintenance Contractor, KDC Operations Manager or delegate.
Chapter 1: General	1.6.5.7 Connection to Existing Services	Add first paragraph: Alternatively, contractor under supervision of the KDC Maintenance Contractor, KDC Operations Manager or delegate.
Chapter 1: General	1.6.6.1 Corridor Access Requests	Add: Refer to KDC Corridor Access Request website or enquire directly to KDC
Chapter 1: General	1.7.2 As-Built Information	Add first paragraph: <i>'...Manuals apply to the installation or modification of all WDC and Private assets.'</i>
Chapter 1: General	1.7.2 As-Built Information	Add: KDC Asset Schedule Template for developers is available on request and should be used for larger developments at the Development Engineers discretion.
Chapter 1: General	1.7.2.5 Asset Information Schedule	Add: KDC Asset Schedule Template for developers will be provided on request.
Chapter 1: General	1.7.3.2 Bonds	Replace: Delete c. Replace d. with <i>Defects Liability/Maintenance bond: Council will apply its discretion to set an appropriate bond amount that reflects the value of the work and the risk to Council assets.</i>
Chapter 1: General	1.7.3.3 Uncomplete Works Bonds	Add: KDC does not generally accept Uncomplete Works Bonds
Chapter 2: Site Development Suitability	2.1.3.3 WDC Documents	Documents: Coastal Structure Plan and Liquefaction Vulnerability Study are not applicable to Kaipara.
Chapter 4: Stormwater and Drainage	4.1 Introduction	Add: Read all references to 'Stormwater Manager' as Asset Management/Infrastructure Manager or delegate
Chapter 4: Stormwater and Drainage	4.1.3 Performance Standards	Add to b: Clarification, 50% AEP without surcharge, 20% AEP with surcharge. Add to e: Alternatively HIRDS RCP 8.5 can be used Add to f: Stormwater system design shall prioritize LID and WSUD
Chapter 4: Stormwater and Drainage	4.1.5.3 WDC Documents	Documents: WDC Urban Design Guidelines is not used by KDC
Chapter 4: Stormwater and Drainage	4.1.7 Policy Requirements	Add to b: Retention of the natural hydrological parameters of the system.
Chapter 4: Stormwater and Drainage	4.1.7 Policy Requirements	Add e: Requirements of any applicable stormwater discharge consents will need to taken into account. This is especially applicable to sites that have potential to discharge contaminants to the network or store environmentally harmful chemicals.
	4.2.2 Discharge into a stream or water course	Add a. <i>'...until the public assets are vested in the WDC and the defects liability period is complete.'</i>
Chapter 4: Stormwater and Drainage	4.3.6.1 Content of design submission	Add to f: <i>'...AEP and associated flows and velocities at outlets, watercourses and along OLP's (if parameters are outside those listed in Table 4-7: Maximum Velocities in Channel) , and...'</i>
Chapter 4: Stormwater and Drainage	4.3.7 Design Life	Add: Alternative Design Life values can be submitted for components of the system at the discretion of the Asset Management/Infrastructure Manager or delegate
Chapter 4: Stormwater and Drainage	4.3.9.1 General Table 4-1	Add under Water Quality Volume/When Required: <i>Or discharged via piped network to natural stream or manmade channel. Retention of the pre-development flows for the frequent low intensity rainfall events equivalent to 1/3 2-year rainfall event.</i> Add under Water Quality Rainfall/Design Parameter: <i>Equivalent to 1/3 2-year rainfall event.</i> Add to Volume/When Required: <i>Or discharged via piped network to natural stream or manmade channel.</i>
Chapter 4: Stormwater and Drainage	4.3.9.1 General	Add: g. Where the primary network is in private property, an easement or otherwise record any limitations or public interests on the title shall be at the KDC's discretion. Sufficient width will be provided to allow for maintenance at KDC's discretion with a minimum width of 3m.
Chapter 4: Stormwater and Drainage	4.3.9.2 Primary Network Design Requirements	Add: i. uVPC pipe may be substituted for RC up to DN375 and must be a minimum of SN16 and installed as per AS/NZS2032 and AS/NZS2566.
Chapter 4: Stormwater and Drainage	4.3.9.2 Primary Network Design Requirements	Add: b(2nd). <i>'...for drainage purposes at no costs to WDC, (specific department ownership should be confirmed before vesting) or can be retained in private ownership...'</i>
Chapter 4: Stormwater and Drainage	4.3.9.3 Secondary Stormwater Network Design Requirements	Add first paragraph: <i>'... public ownership or private control.'</i>
Chapter 4: Stormwater and Drainage	4.3.9.3 Secondary Stormwater Network Design Requirements	Add forth paragraph: <i>'... or provide an easement or otherwise record any limitations or public interests on the title shall be at the KDC's discretion. Sufficient width will be provided to allow for flood extent and maintenance at KDC's discretion .'</i>
Chapter 4: Stormwater and Drainage	4.3.10.1 Design Rainfall Event	Correct: Table 4-2 b. <i>'allowing surcharge ...'</i>
Chapter 4: Stormwater and Drainage	4.3.10.5 Design Storm	Add: NIWA profile for the upper North Island is also acceptable.
Chapter 4: Stormwater and Drainage	4.3.11.5 Minimum Pipe Roughness	Add: Clarify that 0.6 is used for Colebrook-White calculations and 0.013 for Mannings as per Auckland Council SWCoP v4.
Chapter 4: Stormwater and Drainage	4.3.11.7 Freeboard requirements	Add: Floor Level Freeboard requirements are outline in the KDC District Plan
Chapter 4: Stormwater and Drainage	4.3.12.1 General Requirements	Add to first paragraph: <i>'The watercourse area shall be of sufficient width to contain the design storm flow from 1% AEP + Climate Change.'</i>
Chapter 4: Stormwater and Drainage	4.3.12.3 Open Chennel Flow Calculations	Add: Flow calculations should employ the best practice method.
Chapter 4: Stormwater and Drainage	4.3.17.6 Materials and Parameters	Add: h. Access Chamber covers shall be painted blue.
Chapter 4: Stormwater and Drainage	4.3.21 Soakage Devices	Add to paragraph: 5. <i>'...for maintenance and shall consider geotechnical conditions for the proposed location. Maintenance responsibilities, schedules and procedures shall be clearly defined.'</i>
Chapter 4: Stormwater and Drainage	4.3.21 Soakage Devices	Add: g. <i>'... capacity of the soakage device and calculated assuming 100% devices blockage'</i>
Chapter 4: Stormwater and Drainage	4.3.22.3 Proprietary Treatment Systems	Add: d. When there are demonstratable site constraints precluding green infrastructure.
Chapter 4: Stormwater and Drainage	4.3.22.4 Swales	Add: Refer to 3.3.14.11 of the RITS Transport Chapter, not the WDC Chapter.
Chapter 4: Stormwater and Drainage	4.3.22.4 Swales	Add: Wellington Water Guidelines are not generally used in Kaipara
Chapter 4: Stormwater and Drainage	4.3.22.4 Swales	Add: Swales and roadside drains sized to 10% AEP plus Climate Change.
Chapter 4: Stormwater and Drainage	4.3.22.5 Raingardens	Add: Refer to 3.3.14.11 of the RITS Transport Chapter, not the WDC Chapter.
Chapter 4: Stormwater and Drainage	4.3.22.5 Raingardens	Add: Wellington Water Guidelines are not generally used in Kaipara
Chapter 5: Wastewater	5.1 Introduction	Add: Read all references to 'Wastewater Manager' as Asset Management/Infrastructure Manager or delegate

Chapter 5: Wastewater	5.1.4.3 WDC Documents	Documents: Coastal Structure Plan is not applicable to Kaipara. WDC Urban Design Guidelines is not used by KDC. Public Utility Connection/Disconnection application form -use KDC form Application for Connection to Services.
	5.2.4 Design Life	Add: Alternative Design Life values can be submitted for components of the system at the discretion of the Asset Manager
	5.4.1. Testing and Inspections for Pipelines	Add third paragraph: 'Connection shall only be carried out by a Registered contractor, or contractor under supervision of the KDC Maintenance Contractor, KDC Operations Manager or delegate, and the connection shall...'
Chapter 6: Water Supply and Reticulation	6.1 Introduction	Add: Read all references to 'Water Manager' as Asset Management/Infrastructure Manager or delegate
Chapter 6: Water Supply and Reticulation	6.1.4.3 WDC Documents	Documents: WDC Urban Design Guidelines is not used by KDC. Public Utility Connection/Disconnection application form -use KDC form Application for Connection to Services.
Chapter 6: Water Supply and Reticulation	6.1.7.1 Work on Existing Mains	Add second paragraph: 'Only a Licensed Contractor will be permitted to work on existing live water mains, or contractor under supervision of the KDC Maintenance Contractor, KDC Operations Manager or delegate.'
Chapter 6: Water Supply and Reticulation	6.2.2.1 General requirements	Add: b. KDC requires a capacity assessment (using the network model) to be completed by KDC's consultants for development over 3 new residential connections (or equivalent) at the developers cost.
Chapter 6: Water Supply and Reticulation	6.2.2.3 Domestic Demand	Add: 4 people per household is the default value for KDC.
Chapter 6: Water Supply and Reticulation	6.2.5 Design Life	Add: Alternative Design Life values can be submitted for components of the system at the discretion of the Asset Manager
Chapter 6: Water Supply and Reticulation	6.2.7.2 Standard Pipe Sizes	Correct: Table 6-4 . 1530= 15 and 715= 7
Chapter 6: Water Supply and Reticulation	6.2.12.2 Meters	Delete: First sentence.
Chapter 6: Water Supply and Reticulation	6.2.12.2 Meters	Add: a (2nd). Use KDC Application to Connect to Services available from the KDC website or on request.
Chapter 7: Public Spaces and Landscape Works	7.1.4.3 WDC Documents	Add: WDC Urban Design Guidelines are not used in Kaipara
Chapter 7: Public Spaces and Landscape Works	7.2.3 Design of Reserve and Linkages	Add: a. '...recreational activities <i>unless reasonable case can be made for a smaller area</i> .'
Chapter 7: Public Spaces and Landscape Works	7.2.3 Design of Reserve and Linkages	Add: g. Seek to maximise ecological and overland flow linkages
Chapter 7: Public Spaces and Landscape Works	8.1.3.3 WDC Documents	Add: WDC Urban Design Guidelines are not used in Kaipara district
Chapter 8: Electricity, Telecommunications and Gas	8.2.2 Reticulation Layout	Add: WDC Drawings S29 and S30 should be used in preference to RITS D3.1.3 for underground services layout.