

**Advice to South Wairarapa District Council (SWDC) Regarding Three Waters Services  
Capital Expenditure (CAPEX) Delivery Plan for the Financial Years 2022/23 and 2023/24  
(Y2&3 CDP)**

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TO                   Stefan Corbett, SWDC

COPIED TO        Harry Wilson, CEO SWDC

                          Karon Ashforth - General Manager Finance

                          Wellington Water - Tonia Haskell, Julie Alexander, Laurence Edwards, Steve Hutchison,  
                          Adam Mattsen

FROM               Susannah Cullen

DATE               05 July 2022

**Action sought**

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	<b>Action sought</b>	<b>Deadline</b>
<b>South Wairarapa District Council</b>	<p><b>Approve</b> the recommendations in this paper.</p> <p><b>Note</b> this updated memo incorporates actions from the initial meeting (12/05/2022) and subsequent communications.</p>	08 July 2022

**Contact for telephone discussion (if required)**

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<b>Name</b>	<b>Position</b>	<b>1st Contact</b>	
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## Purpose of this advice

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1. This paper provides a high-level summary of the draft capital delivery plan (CDP) Wellington Water plans to deliver in Year 2 of the Long-Term Plan (LTP) (FY22/23).
2. The option presented reflects the funding availability advised by SWDC (20/06/2022) and the associated risks with this funding profile.
3. An indicative plan for delivery in Year 3 (FY23/24) is included for information, noting this will be further refined throughout Year 2.

## Summary

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4. The budget instructed by SWDC for Year 2 is **\$5.3M**.
5. This comprises \$4.0M from the LTP Year 2 and \$1.3M brought forward from LTP Year 3 to fund the Featherston Wastewater Treatment Plan project.
6. The budget for Year 3 is \$6.2M. This comprises the Year 3 LTP of \$7.5M minus \$1.3M brought forward to the Year 2 budget.
7. Figure 1 presents the budgets proposed by SWDC against the original LTP values.
8. A breakdown of the budget is provided at Appendix A, and by LGA Classification and Water Type at Appendix B.
9. The total value of the projects proposed equals the budgets assigned (\$5.3M and \$6.2M for Years 2 and 3 respectively). A list of the projects proposed within the funding envelope advised by SWDC are presented at Appendix C.
10. Further information was issued to SWDC regarding proposed funding scenarios in earlier versions of this memo; these are summarised at Appendix D.
11. The limited budget advised relative to the investment need introduces risk to SWDC around compliance with consent requirements, aging network assets, risk to current level of service and limits opportunities for planned network renewals, growth and level of service improvements.
12. Progress against the budget spend will be reported throughout FY22/23 via the monthly finance and programme meetings.
13. Works to begin delivery of the projects which are outcomes of the Very High Criticality Assets (VHCA) assessment programme have been introduced to the Year 3 plan only due to the funding limitations in Year 2.
14. The plan for delivery in Year 3 (FY 23/24) will be further developed throughout Year 2.

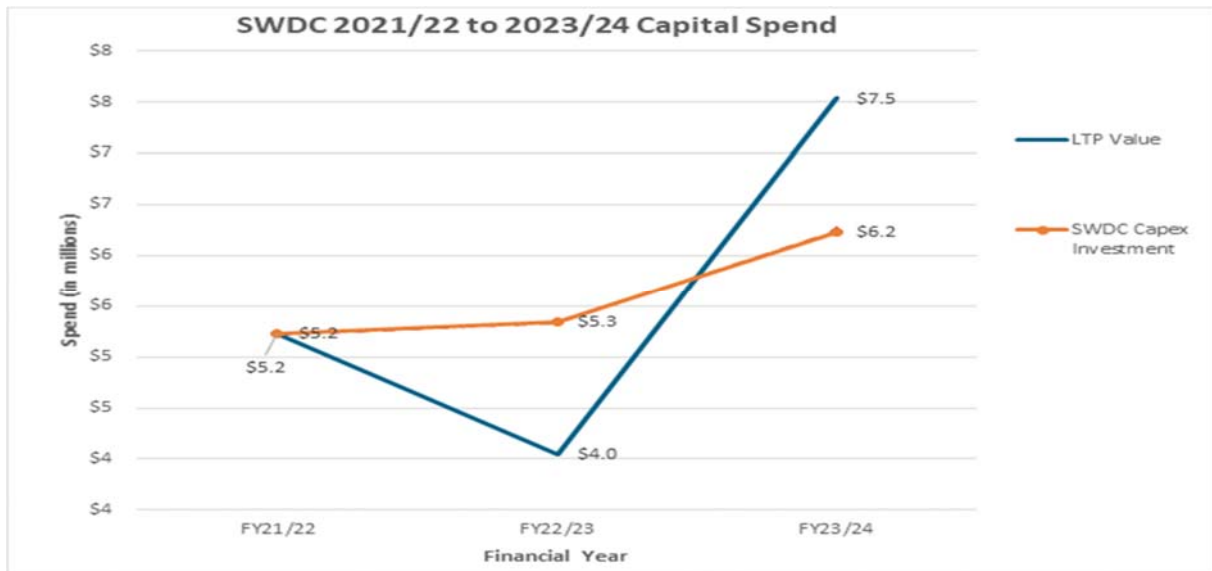


Figure 1 - Three-year LTP values and revised profile for Featherston Funding

## Introduction

- Wellington Water has been working to improve the efficiency and effectiveness of what we are delivering, by focusing on delivering the right assets at the right time; whether this be a renewal, service level increase or to support growth although our current emphasis is on renewals.

## SWDC Capex

- The confirmed SWDC Capex investment is \$5.3M and \$6.2M for Year 2 (FY22/23) and Year 3 (FY23/24) respectively (inflated values).
- We have reassessed project delivery within Years 2 and 3 to align with the budgets advised by SWDC, and the proposed projects and spend on these projects are presented at Appendix C. The risks associated with the proposed capital delivery programme are highlighted at Table 1.

CDP proposed	Included	Excluded
Proposed Year 2 CDP = \$5.3M	<ul style="list-style-type: none"> <li>Continue delivery of Featherston Wastewater Treatment Plant project</li> <li>Projects to continue drinking water compliance journey, incl. Memorial Park</li> <li>Reactive renewal budgets – treatment plant and network</li> <li>Modelling (reduced scope)</li> </ul>	<ul style="list-style-type: none"> <li>Other Wastewater treatment plant compliance projects at Martinborough, Greytown and Lake Ferry</li> <li>Tauherenikau Pipeline long term solution renewal</li> <li>Smart meter works</li> <li>Planned network renewals</li> <li>Growth</li> <li>Level of service improvements</li> <li>WWTP Health and Safety upgrades</li> <li>Donald Street Pump Station.</li> <li>Planning and design for VHCA renewals</li> </ul>

Table 1- Key inclusions & exclusions

## Risks, Issues & Opportunities

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18. This section provides a high-level description of risks associated with activities that are excluded:
19. **Reduced level of service resulting from budgetary constraints** - the limited budget available means that no works can be scheduled beyond those which are required to facilitate safe drinking water, continue work on the Featherston WWTP compliance project, and reactive capital budgets.
20. **Exposure to penalties and prosecution associated with un-consented discharges from Featherston WWTP** - whilst funding has been approved for the Featherston WWTP project, a risk to SWDC of prosecution un-consented discharges at Featherston WWTP will remain until the works are completed. This may result in penalties and potentially prosecution by GWRC, who have already issued 'Please Explain' notices.
21. **Exposure to penalties and prosecution associated with non-compliance with consent conditions at other WWTPs (Greytown, Martinborough and Lake Ferry)** – by not funding consenting works and / or the requirements under the existing WWTP consents or other network consents, there remains a risk of non-compliance. This may result in penalties and potentially prosecution by GWRC, who have already issued 'Please Explain' notices.
22. **Lack of investment in asset renewals programme leading to reduced level of service** – condition of the water, wastewater and stormwater assets degrades at a rate exceeding the renewal rate leading to an increase in required operational interventions (and cost) to fix asset failures and other resulting asset issues.
23. **Lack of investment in the VHCA programme leading to reduced condition of VHCA assets and increased network performance risk** – risk to resilience of the water, wastewater and stormwater systems resulting in a lower level of service for customers, communities and the environment.
24. **Limited investment in modelling reduces data quality** – a risk that the lack of quality of data available to residents on flood risk, water supply and wastewater capacity could increase issues in network such as contributing to wastewater spilling, a lack of pressure and fireflow availability, and risk of flooding. Accurate and maintained models are important for more efficient design and trouble shooting in the network when there are performance issues and advice on capital improvements. Lack of quality data from models may contribute to poor decisions in infrastructure. Models are required to inform the Spatial Plans and population growth to allow SWDC to make low risk and integrated planning decisions.
25. **Continued network risk associated with poor condition of the Donald Street Pump Station** – this is a named project in the LTP, designed to address the poor condition of the pump station, increase the pump capacity and construct an emergency storage overflow. Failing to fund this project creates the risk of continued one-off high opex costs during moderate to high weather events or single pump failure. There also remains a risk that the pump station may fail completely, which would necessitate implementation of contingency plans in the short term whilst the renewals works are fast-tracked to replace the asset.
26. **Lack of water security caused by poor condition of Tauherenikau Pipeline** – the current pipeline asset is located in a vulnerable position, exposed to abrasion from gravel movements by the river. The recent repair efforts have created a sacrificial rock weir structure to bury the pipe; it is expected to require maintenance every 6-12 months. There remains an ongoing risk of the pipeline failing during a large flood event and/or lateral river movements. This is the only safe drinking water supply for the Featherston township. This budget does not enable funding to be allocated to progress the planning and design on this project until Year 3.

27. **Ongoing increased operational costs until the Waiohine WTP Stage 3 upgrades are completed** – this project is to design and implement an appropriate pH dosing system solution as well as address some other operational and H&S issues that have been identified. This budget allows for undertaking initial design in Year 2 (FY22/23) with detailed design and procurement in Year 3 (FY23/24) and construction in Year 4 (FY24/25). Until this work is complete there will be ongoing increased opex costs to run the temporary pH dosing system which is currently onsite. Several health and safety noncompliance issues remain at the site.
28. **Delivery of Proposed Y2&3 CDP** - historically, Wellington Water has underspent capital against council budgets. We have worked to mitigate this risk by over-programming against the LTP across the three years. This approach has not been used for the FY22/23 SWDC Programme.
29. **Resource and Supply Chain Constraints** – there is currently an industry wide constraint in availability of resources (both materials and personnel) which may impact the delivery of projects. To mitigate the likelihood and impact of this risk, we have worked with Consultant and Contractors to apply a deliverability lens across the projects proposed i.e. to only propose projects that we are confident we can deliver within the current known constraints.
30. **COVID-19 Pandemic** - We continue to face impacts of the global COVID-19 pandemic. We expect to continue to see challenges with global supply chains, freight, transportation, and associated price increases which will impact delivery of the programme.

#### Next steps

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31. Once the Year 2 CDP is agreed with SWDC, we will communicate the plan with Wellington Water Groups, including our Consultant & Contractor Panel, and commence delivery.
32. Delivery against the agreed budget will be monitored throughout Year 2 and progress updates communicated to the council via the established monthly finance and programme meetings.
33. We will develop the Year 3 plan through Year 2 with a plan to submit the final Year 3 capital delivery plan at the start of Q4 FY22/23.

#### Recommended action

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26. We recommend that you:
  - a **note** that maintaining the current LTP Capex limits the capacity for delivering further capital projects.
  - b **consider** the risks and issues identified above and seek to implement controls.
  - c **note** that further work will be required during Year 2 to determine the Year 3 budget and plan.

**Appendix A – Budget Breakdown (Scenario 3)**

Financial Year	Sustained Uplift (\$)			LTP Value (inflated values) (\$)	Change to LTP spend profile (\$)	SWDC Capex Investment (\$)	Total Planned Projects (\$)	Project Forecast vs Revised Budget (\$)
	Lower	Mid-Point	Upper					
Year 1 (FY21/22)	5,000,000	6,000,000	7,000,000	5,224,500	0	5,224,500	5,224,500	100%
Year 2 (FY22/23)	5,000,000	6,000,000	7,000,000	4,040,629	1,300,000	5,340,000	7,827,000	100%
Year 3 (FY23/24)	5,000,000	6,000,000	7,000,000	7,534,277	-1,300,000	6,235,000	3,742,000	100%
<b>Totals</b>	<b>15,000,000</b>	<b>18,000,000</b>	<b>21,000,000</b>	<b>16,799,406</b>	<b>0</b>	<b>16,799,406</b>	<b>16,799,500</b>	<b>100%</b>

## Appendix B – Scenario 3 Spend by Water Type and LGA Classification

### Budget Breakdown by Water Type (Scenario 3)

Water Type	Reprofiled LTP Year 2 (\$)	Proposed Year 2 (\$)	Reprofiled LTP Year 3 (\$)	Proposed Year 3 (\$)
Water	1,997,720	3,235,000	4,383,894	1,435,000
Wastewater	3,342,908	1,985,000	798,382	4,720,000
Stormwater	0	120,000	1,052,000	80,000
<b>Total</b>	<b>5,340,629</b>	<b>5,340,000</b>	<b>6,234,277</b>	<b>6,235,000</b>

### Budget Breakdown by LGA Classification (Scenario 3)

Water Type	Reprofiled LTP Year 2 (\$)	Proposed Year 2 (\$)	Reprofiled LTP Year 3 (\$)	Proposed Year 3 (\$)
Growth	665,496	0	2,840,400	0
ILOS	3,953,152	4,485,000	2,638,541	2,250,000
Renewal	721,981	855,000	755,336	3,985,000
<b>Total</b>	<b>5,340,629</b>	<b>5,340,000</b>	<b>6,234,277</b>	<b>6,235,000</b>

## Appendix C – Proposed Projects & Spend

Project Title	Water Type	LGA Classification	Value Year 2 (\$)	Value Year 3 (\$)
GTN Memorial Park WTP Upgrades - Stage 3	Water	Level of Service	2,450,000	-
FSTN WWTP Consent (alternative disposal systems FSTN)	Wastewater	Level of Service	1,300,000	1,000,000
FSTN Waiohine WTP Stage 3 upgrades	Water	Level of Service	300,000	330,000
Greytown WWTP Compliance	Wastewater	Level of Service	50,000	200,000
MTB WWTP Compliance	Wastewater	Level of Service	50,000	200,000
South Wairarapa - WW network renewals - 2018 Base	Wastewater	Renewal	50,000	100,000
GTN PW Reactive Renewals	Water	Renewal	45,000	45,000
MTB PW Reactive Renewals	Water	Renewal	45,000	45,000
FSTN PW Reactive Renewals	Water	Renewal	45,000	45,000
Martinborough WTP Reactive Renewals	Water	Renewal	45,000	45,000
Waiohine WTP Reactive Renewals	Water	Renewal	45,000	45,000
FSTN Featherston WWTP Reactive Renewals	Wastewater	Renewal	45,000	45,000
GTN Greytown WWTP Reactive Renewals	Wastewater	Renewal	45,000	45,000
FSTN Lake Ferry WWTP Reactive Renewals	Wastewater	Renewal	45,000	45,000
MTB WWTP Reactive Renewals	Wastewater	Renewal	45,000	45,000
MTB WW Reactive Renewals	Wastewater	Renewal	40,000	40,000
GTN WW Reactive Renewals	Wastewater	Renewal	40,000	40,000
FSTN WW Reactive Renewals	Wastewater	Renewal	40,000	40,000
Reservoir Water Quality Improvements - Reactive	Water	Level of Service	35,000	35,000
WTP Testing	Water	Level of Service	30,000	100,000
SWDC-CPX-FSTN Lake Ferry WWPS Reactive Renewals	Wastewater	Renewal	30,000	30,000
FSTN WW Pump Station Reactive Renewals	Wastewater	Renewal	30,000	30,000
GTN WW Pump Station Reactive Renewals	Wastewater	Renewal	30,000	30,000
SWDC WW Basestation establishment	Wastewater	Renewal	30,000	30,000
SWDC PW Basestation establishment	Water	Renewal	30,000	30,000
SWDC Archestra Graphics and Historian intergration	Water	Level of Service	25,000	-
SWDC Archestra Graphics and Historian intergration	Wastewater	Level of Service	25,000	-
Pirinoa WTP Reactive Renewals	Water	Renewal	20,000	20,000
WWTP - Generator readiness	Wastewater	Level of Service	20,000	20,000
FSTN Water Modelling	Water	Level of Service	20,000	20,000
SWDC-CPX-GTN Water Modelling	Water	Level of Service	20,000	20,000
SWDC-CPX-MTB Water Modelling	Water	Level of Service	20,000	20,000
Memorial Park WTP Reactive Renewals	Water	Renewal	20,000	20,000
FSTN Global SW Consent	Stormwater	Level of Service	20,000	-
GTN Global SW Consent	Stormwater	Level of Service	20,000	-
SWDC-CPX-MTB Global SW Consent	Stormwater	Level of Service	20,000	-
GTN WW Control Systems Reactive Renewals	Wastewater	Renewal	10,000	10,000
FSTN WW Control Systems Reactive Renewals	Wastewater	Renewal	10,000	10,000
MTB WW Control Systems Reactive Renewals	Wastewater	Renewal	10,000	10,000
SWDC GTN DW Control Systems Reactive Renewals	Water	Renewal	10,000	10,000
SWDC FSTN DW Control Systems Reactive Renewals	Water	Renewal	10,000	10,000
SWDC MTB DW Control Systems Reactive Renewals	Water	Renewal	10,000	10,000
FSTN WW Modelling	Wastewater	Level of Service	10,000	10,000
FSTN SW Modelling	Stormwater	Level of Service	10,000	10,000
SWDC-CPX-GTN Stormwater Modelling	Stormwater	Level Of Service	10,000	10,000
MTB SW Modelling	Stormwater	Level Of Service	10,000	10,000
GTN WW Modelling	Wastewater	Level of Service	10,000	10,000
MTB WW Modelling	Wastewater	Level of Service	10,000	10,000



Project Title	Water Type	LGA Classification	Value Year 2 (\$)	Value Year 3 (\$)
SWDC Treatment Plant Datalogging	Water	Level of Service	10,000	-
SWDC Treatment Plant Datalogging	Wastewater	Level of Service	10,000	-
GTN SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
FSTN SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
MTB SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
FSTN Donald Street Pump Station upgrade	Wastewater	Renewal	-	2,600,000
Tauherenikau Pipeline Crossing	Water	Renewal	-	300,000
WWTP - Health and Safety (H&S) upgrades - Fencing/security upgrades	Wastewater	Level of Service	-	100,000
FSTN Water Main Renewals 21-24	Water	Renewal	-	100,000
Upgrades to WTP telemetry networks	Water	Level of Service	-	25,000
Featherston - Smart Meters/Universal Metering	Water	Level of Service	-	10,000
Greytown - Smart Meters/Universal Metering	Water	Level of Service	-	10,000
Martinborough - Smart Meters/Universal Metering	Water	Level of Service	-	10,000
SWDC - New Smart Services	Water	Level of Service	-	10,000
SWDC Reservoir VHCA Remedial Works	Water	Renewal	-	20,000
SWDC-PW-VHCA Pipe Renewal Programme	Water	Renewal	-	20,000
SWDC-SW-VHCA Pipe Renewal Programme	Stormwater	Renewal	-	20,000
SWDC-WW-VHCA Pipe Renewal Programme	Wastewater	Renewal	-	20,000
Upgrades to WTP telemetry networks	Water	Level of Service	-	80,000

## APPENDIX D – Summary of Scenarios Previously Presented

1. In the previous version of the memo (issued 13/06/2022), we presented four scenarios for capital investment in FY22/23. These are as summarised in the following and the associated risks presented at Table D1:
  - a **Scenario 1** – follow budgets as set out in LTP, budget of \$4.0M, projects listed in Appendix D1.  
*The existing LTP is outdated; based on our current knowledge of risks to the network, Wellington Water no longer considers these to be the highest priority for funding in FY22/23.*
  - b **Scenario 2** – reprioritises works within the LTP budget of \$4.0M (see Appendix D2), although noting that no capital construction works are completed on the Donald Street Pump Station.
  - c **Scenario 3** – budget of \$7.83M for Year 2 and \$3.74M for Year 3 (total \$11.6M to align with inflated LTP funding across the two years). This scenario provides some funding to progress consenting works at the WWTPs, capital for Donald Street Pump Station Construction Works and funding to progress Tauherenikau Pipeline, in addition to those presented in Scenario 2. See Appendix D3. It is noted that this budget proposal is focused on the most important water services for the Council - safe drinking water projects and reactive capex only. There is no budget allocation for delivering any other high risk, or network improvement projects. This introduces significant risks around resource consent compliance and ability to address residual network condition and performance risks.
  - d **Scenario 4** – budget increase to \$8.8M – as Scenario 2 and 3, and also includes increased funding for the Featherston WWTP Consent Project, smart services and WWTP health and safety compliance works (see Appendix D4).
2. A summary of the key inclusions, exclusions and risks with each of the scenarios presented is given at Table D1.

Table D1 - Summary of scenarios and associated risks

Scenario description	Includes	Exclusions
<b>Scenario 1</b> Year 2 LTP Budget of \$4.0M <i>Undertake project works as set out in LTP.</i>	<ul style="list-style-type: none"> <li>• Project development for Martinborough New Water Source, some funding for Waiohine WTP, Smart meters, Implement water resilience strategy, some funding for network renewals</li> <li>• Some funding for: Greytown trunk main upgrade, some funding for the Greytown, Martinborough and Featherston WWTPs, WW network renewals</li> </ul>	<ul style="list-style-type: none"> <li>• Memorial Park WTP Project</li> <li>• Inadequate funding for other WTP minor works required for compliance</li> <li>• Reactive capex</li> <li>• Controls projects</li> <li>• Donald Street Pump Station; shortfall of \$1.2M in LTP to complete physical works.</li> <li>• All modelling</li> <li>• Note budgets included for WW compliance projects will not achieve compliance, they are only to begin the planning and implementation of the journey toward compliance, this is because the works required for compliance will take time to plan and implement</li> </ul>

Scenario description	Includes	Exclusions
<p><b>Scenario 2</b> Year 2 \$4.0M</p> <p><i>Undertake drinking water safety projects &amp; use reactive renewals budgets for the remainder of the treatment plants and network.</i></p>	<ul style="list-style-type: none"> <li>Projects to continue drinking water compliance journey, incl. Memorial Park</li> <li>Reactive renewal budgets – treatment plant and network</li> </ul>	<ul style="list-style-type: none"> <li>Wastewater treatment plant compliance projects including Featherston, Martinborough, Greytown and Lake Ferry</li> <li>Tauherenikau Pipeline long term solution renewal</li> <li>All modelling</li> <li>Smart meters works</li> <li>Planned network renewals</li> <li>Growth</li> <li>Level of service improvements</li> <li>Donald Street Pump Station.</li> </ul>
<p><b>Scenario 3</b> <b>Year 2 = \$7.83M &amp; Year 3 = \$3.74M</b></p> <p>Use combined LTP funding for Years 2 and 3 (\$11.6M total) to undertake drinking water safety and begin compliance projects and commence Donald Street project</p>	<ul style="list-style-type: none"> <li>Projects to continue drinking water compliance journey, incl. Memorial Park</li> <li>Reactive renewal budgets – treatment plant and network</li> <li>Some funding for wastewater treatment plant compliance projects including Featherston, Martinborough, Greytown and Lake Ferry</li> <li>Donald Street Pumping Station works (\$2M).</li> <li>Modelling &amp; consent works completed.</li> <li>Tauherenikau Pipeline long term solution renewal</li> </ul>	<ul style="list-style-type: none"> <li>Note budgets included for WW compliance projects will not achieve compliance, they are only to begin the planning and implementation of the journey toward compliance, this is because the works required for compliance will take time to plan and implement</li> <li>Funding for Featherston WWTP Consent project is not at level required to deliver to the current delivery plan.</li> <li>Smart meter works</li> <li>Planned network renewals</li> <li>Growth</li> <li>Level of service improvements</li> </ul>
<p><b>Scenario 4</b> <b>Year 2 \$8.8M</b> Priority Projects</p>	<ul style="list-style-type: none"> <li>Projects to continue drinking water compliance journey, incl. Memorial Park</li> <li>Reactive renewal budgets – treatment plant and network</li> <li>Some funding for Donald Street PS</li> <li>Modelling</li> <li>Wastewater treatment plant compliance projects including Featherston, Martinborough, Greytown and Lake Ferry, note that funding for Featherston WWTP is increased in this scenario to reflect current delivery plan for Years 2 &amp; 3</li> <li>Progressing Tauherenikau Pipeline renewal</li> <li>Progressing some smart meter works</li> <li>WWTP Health and Safety compliance projects</li> </ul>	<ul style="list-style-type: none"> <li>Note budgets included for WW compliance projects will not achieve compliance, they are only to begin the planning and implementation of the journey toward compliance, this is because the works required for compliance will take time to plan and implement</li> <li>Early design for some growth</li> <li>Early design for some Level of service improvements</li> </ul>

3. The risks, issues and opportunities presented in the earlier version of the memo is as presented in this version, with the exception of Memorial Park WTP project, which is now funded under the current proposed projects. The risk associated with Memorial Park is summarised as:
  - a **Memorial Park WTP project** – this project is to design and construct a containerised drinking water treatment plant to provide safe and compliant drinking water. The existing bore pump is at the end of its useful life and has issues with turbidity. The existing treatment plant does not meet current NZWDS which requires upgrades to meet 4-log treatment (UV, Filtration, Chlorination and pH correction). The existing chemical dosing room within the swimming pool is currently an operational and public health risk which requires decommissioning. By not funding this project, this treatment plant will continue to be non-compliant. Ongoing high opex costs are required for the temporary pH and UV systems. Continued operational bore pump turbidity issues will persist.

## Appendix D1 - Scenario 1

Proposed Budget \$4.0M

Compliant with 2021-24 Long Term Plan

Projects and budgets identified in the 2021-24 Long Term Plan

Project Title	Water Type	LGA Classification	Value Year 2 (\$)
Martinborough new water source	Water	Growth	432,000
Featherston - Waiohine Upgrade	Water	Level of Service	97,200
Smartmeters	Water	Level of Service	1,000,000
Implement water resilience strategy	Water	Level of Service	50,000
Network Renewals	Water	Renewals	366,000
Greytown trunk main upgrade	Wastewater	Growth	216,000
Greytown treatment plant	Wastewater	Level of Service	58,200
Martinborough treatment plant	Wastewater	Level of Service	270,000
Health and Safety Upgrades	Wastewater	Level of Service	108,000
Featherston treatment plant	Wastewater	Renewals	1,000,000
Reticulation renewals	Wastewater	Renewals	337,000

## Appendix D2 - Scenario 2

Proposed Budget Year 2 = \$3.95M

Drinking Water Safety and Reactive Capex Focus (no capital works at Donald Street Pump Station)

Project Title	Water Type	LGA Classification	Value Year 2 (\$)	Value Year 3 (\$)
GTN Memorial Park WTP Upgrades - Stage 3	Water	Level of Service	2,450,000	-
FSTN Waiohine WTP Stage 3 upgrades	Water	Level of Service	300,000	600,000
MTB WW Control System Upgrades	Wastewater	Level of Service	90,000	100,000
SWDC - Remote Water Quality Sensors - zone monitoring	Water	Level of Service	75,000	-
Upgrades to WTP telemetry networks	Wastewater	Level of Service	75,000	80,000
GTN PW Reactive Renewals	Water	Renewal	45,000	50,000
FSTN PW Reactive Renewals	Water	Renewal	45,000	50,000
MTB PW Reactive Renewals	Water	Renewal	45,000	50,000
FSTN Featherston WWTP Reactive Renewals	Water	Renewal	45,000	50,000
GTN Greytown WWTP Reactive Renewals	Water	Renewal	45,000	50,000
FSTN Lake Ferry WWTP Reactive Renewals	Wastewater	Renewal	45,000	50,000
MTB WWTP Reactive Renewals	Wastewater	Renewal	45,000	50,000
Martinborough WTP Reactive Renewals	Wastewater	Renewal	45,000	50,000
Waiohine WTP Reactive Renewals	Wastewater	Renewal	45,000	50,000
GTN WW Reactive Renewals	Wastewater	Renewal	40,000	35,000
MTB WW Reactive Renewals	Wastewater	Renewal	40,000	35,000
FSTN WW Reactive Renewals	Wastewater	Renewal	40,000	40,000
SWDC-CPX-FSTN Lake Ferry WWPS Reactive Renewals	Wastewater	Renewal	30,000	30,000
GTN WW Control Systems Reactive Renewals	Wastewater	Renewal	30,000	30,000
FSTN WW Pump Station Reactive Renewals	Wastewater	Renewal	30,000	30,000
GTN WW Pump Station Reactive Renewals	Wastewater	Renewal	30,000	30,000
SWDC WW Basestation establishment	Wastewater	Renewal	30,000	30,000
SWDC PW Basestation establishment	Water	Renewal	30,000	30,000
SWDC Archestra Graphics and Historian integration	Water	Level of Service	25,000	-
SWDC Archestra Graphics and Historian integration	Wastewater	Level of Service	25,000	-
Pirinoa WTP Reactive Renewals	Water	Renewal	20,000	20,000
Memorial Park WTP Reactive Renewals	Wastewater	Renewal	20,000	20,000
FSTN WW Control Systems Reactive Renewals	Wastewater	Renewal	20,000	20,000
MTB WW Control Systems Reactive Renewals	Water	Renewal	20,000	20,000
SWDC GTN DW Control Systems Reactive Renewals	Water	Renewal	20,000	20,000
SWDC FSTN DW Control Systems Reactive Renewals	Water	Renewal	20,000	20,000
SWDC MTB DW Control Systems Reactive Renewals	Water	Renewal	20,000	20,000
WTP Testing	Water	Level of Service	10,000	100,000
SWDC-SW - Reactive Renewals Controls	Stormwater	Renewal	10,000	2,000
GTN SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
FSTN SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
MTB SW Reactive Renewals	Stormwater	Renewal	10,000	10,000
SWDC Treatment Plant Datalogging	Water	Level of Service	6,000	-
SWDC Treatment Plant Datalogging	Wastewater	Level of Service	6,000	-
WWTP - Generator readiness	Water	Level of Service	-	20,000

### Appendix D3 - Scenario 3 – Proposed Scenario

Proposed Budget Year 2 = \$7.83M and Year 3 = \$3.74M

Redistributes Year 2 & 3 LTP Values. As Scenario 2, with allowance for construction works at Donald Street Pump Station, some allowance for progressing WWTP consenting works, and some funding to progress Tauherenikau Pipeline Crossing consenting and design.

Project Title	Water Type	LGA Classification	Value Year 2 (\$)	Value Year 3 (\$)
FSTN Donald Street Pump Station upgrade	Wastewater	Renewal	2,230,000	-
FSTN WWTP Consent (alternative disposal systems FTSN)	Wastewater	Level of Service	500,000	250,000
Tauherenikau Pipeline Crossing	Water	Renewal	300,000	800,000
Greytown WWTP Compliance	Wastewater	Level of Service	250,000	400,000
MTB WWTP Compliance	Wastewater	Level of Service	250,000	250,000
Reservoir Water Quality Improvements - Reactive	Water	Level of Service	50,000	50,000
FSTN Water Modelling	Water	Level of Service	40,000	20,000
SWDC-CPX-GTN Water Modelling	Water	Level of Service	40,000	20,000
SWDC-CPX-MTB Water Modelling	Water	Level of Service	40,000	20,000
FSTN WW Modelling	Wastewater	Level of Service	20,000	20,000
FSTN SW Modelling	Stormwater	Level of Service	20,000	20,000
SWDC-CPX-GTN Stormwater Modelling	Stormwater	Level Of Service	20,000	20,000
MTB SW Modelling	Stormwater	Level Of Service	20,000	20,000
GTN WW Modelling	Wastewater	Level of Service	20,000	20,000
MTB WW Modelling	Wastewater	Level of Service	20,000	20,000
FSTN Global SW Consent	Stormwater	Level of Service	20,000	-
GTN Global SW Consent	Stormwater	Level of Service	20,000	-
SWDC-CPX-MTB Global SW Consent	Stormwater	Level of Service	20,000	-

## Appendix D4 - Scenario 4

Year 2 Proposed Budget \$8.8M

All Priority Projects (Scenarios 2 and 3 + the following additional projects, including an increase to the values proposed for the Featherston WWTP consent project)

Project Title	Water Type	LGA Classification	Value Year 2 (\$)	Value Year 3 (\$)
FTSN WWTP Consent (alternative disposal systems FTSN)	Wastewater	Level of Service	1,300,000	1,600,000
WWTP - Health and Safety (H&S) upgrades - Fencing/security upgrades	Wastewater	Level of Service	100,000	280,000
Featherston - Smart Meters/Universal Metering	Water	Level of Service	10,000	75,000
Greytown - Smart Meters/Universal Metering	Water	Level of Service	10,000	75,000
Martinborough - Smart Meters/Universal Metering	Water	Level of Service	10,000	75,000
SWDC - New Smart Services	Water	Level of Service	10,000	30,000
FSTN Water Main Renewals 21-24	Water	Renewal	-	200,000
South Wairarapa - WW network renewals - 2018 Base	Wastewater	Renewal	-	100,000
SWDC Reservoir VHCA Remedial Works	Water	Renewal	-	20,000
SWDC-PW-VHCA Pipe Renewal Programme	Water	Renewal	-	20,000
SWDC-SW-VHCA Pipe Renewal Programme	Stormwater	Renewal	-	20,000
SWDC-WW-VHCA Pipe Renewal Programme	Wastewater	Renewal	-	20,000

*\*Funding for Featherston WWTP is increased in this scenario to reflect the project team's current delivery plan for Years 2 & 3.*