

KAIPARA DISTRICT COUNCIL

Significant Forecasting Assumptions 2018/2028

January 2018



Significant Forecasting Assumptions

Forecasting Assumption	Risk	Level of Uncertainty	Reasons and Financial Effect of Uncertainty
Population and Demographic Assumptions			
 Population Growth: Kaipara District Council uses the subnational population projections provided by Statistics New Zealand (SNZ) as an indication of future growth trends. With past growth (2006-2016) exceeding projections, the assumption is that population growth will be in line with SNZ 2013 (Census) based high series projections updated at 22 February 2017 which will see district population increases of: 2,900 (12.5%) from 23,100 to 26,000 between 2018 and 2028; and 2,000 (7.7%) from 26,000 to 28,000 between 2028 and 2038. Slower growth in the second decade is in line with SNZ projections that population growth will slow across all of New Zealand, between 2028 and 2038 because: all areas will be home to more people aged 65 years and over in 2038; and Deaths will increase relative to births in almost all areas as the population ages. The assumption is that between 2018 and 2028 most population growth will continue to occur in the southern part of the district, with rural Rehia-Oneriri Census Area Unit (CAU) growing by 900 people and Mangawhai growing by 1,160 people, to reach a population close to 5,000 by 2028. In combination, these areas will take 71% of district growth. 	Population growth in some areas exceeds the relatively modest levels anticipated in the projections. Population decline in some centres results in too smaller rating bases to pay for upkeep of public assets.	Low/Medium	Population growth is calculated based on the relative rates of births and deaths in the district (natural increase) coupled with the net movement of people in and out of the district (net migration). Of these, net migration is particularly difficult to predict. It is typically influenced by economic conditions and social trends. For example, better economic conditions may lead to more local jobs allowing more people to be employed in the district. On the other hand, the continuing trend towards centralisation results in more industry and related jobs moving to the larger centres, with an associated migration of workers and their families. Conversely, social trends towards lifestyle blocks and retiring in the country may result in population growth in some areas. Any change in economic or social trends is therefore likely to impact on the population of the district. Any significant increase in population growth above projections will place greater demands on some Council services and facilities (such as libraries, solid waste and water supply services) and hence raise operating costs. This is anticipated to have its greatest effect in Mangawhai, Kaiwaka and other eastern areas.

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The smaller urban CAU's in the south - Ruawai, Kaiwaka and Maungaturoto will grow by a combined 150 persons (5% of district growth) although there will be considerable growth in the rural areas around them. Dargaville is expected to grow quite strongly by 310 people (over 10% of district growth) to reach a population of 5,330 by 2028. There will be a continued low share of district growth (just 14%) in			By contrast, if populations decline in northern and western areas, this may result in some communities becoming unsustainable in terms of their ability to support public infrastructure and services.
the north and north-west, totalling 420 persons.			
 Population Fluctuations: The resident population in some parts of the district fluctuates during the year with a significant increase over the summer and other holiday periods. Assumptions are that: The resident district population of 23,100 persons in 2018 could increase during peak holiday periods to over 31,000; The resident district population of 26,000 persons in 2028 could increase during peak holiday periods to over 35,000; The resident Mangawhai population of around 3,700 in 2018 could grow to 7,700 (an increase of around 4,000 people) during peak holiday periods; and The resident Mangawhai population of 4,890 in 2028 could grow to over 10,000 (an increase of over 5,000 people) at peak times. Many visitors are in residence during the summer period and bring with them increased demands on infrastructure and services, for example roads, water supply, wastewater and solid waste disposal. They may also have higher service level expectations than the usually resident population. 	Seasonal population fluctuations become more severe over time or the period of peak population lengthens.	Medium	Population peaks during holiday periods demand particular infrastructure and services which are largely unused for much of the year. This can place pressure on capital and operating budgets. It is expected that peak demands can be managed and funded for the foreseeable future.

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It is expected that population fluctuations will continue into the future.			
The population assumptions for Mangawhai, and all population forecasts are taken from best possible information, and are subject to normal forecast risks.			
<i>Sources</i> : SNZ – 2013 Census and Mangawhai Wastewater Treatment Plant wastewater flow data 2016/2017.			
 Dwelling Growth: Council's capital works programme reflects the amount of growth in the district. The district's rating base also increases in response to dwelling growth. Therefore the amount of growth and the timing of growth are important assumptions for Council. The assumption is for steady to strong dwelling growth in Long Term Plan (LTP) decade 2018/2028 moderating in the 2028/2038 decade as population growth rates begin to slow with an aging population, with projections indicating: district dwelling units increasing by nearly 2,000 (1,912) from just under 12,500 to 13,500, and another 1,400 dwellings built between 2028 and 2038; the largest amounts of dwelling growth in the Mangawhai CAUs with over 1,000 dwellings delivered in the LTP 2018/2028 period and another 900 dwellings by 2028; Rehia-Oneriri CAU, covering much of the southern part of the district experiencing ongoing strong growth (450 dwellings in LTP decade 2018/2028 and over 300 more dwellings out to 2028). 	Dwelling growth across the district or individual communities occurs at higher or lower rates than assumed.	Low/medium	Economic conditions and the discretionary nature of the housing market can cause variations in dwelling growth away from that projected. Increases in dwellings may not mimic permanent population trends as most of the growth in the district is likely to be around Mangawhai and other holiday locations where many dwellings will be built for non-permanent residents. Unforeseen fluctuations in economic conditions which affect the ability of people to invest in a second home/holiday home or their ability to retire to the country/seaside are therefore the main drivers of uncertainty in this area. The main financial effect, of growth being different than projected, can be a difference in Development Contributions from what was anticipated. Hence Council should be cautious that growth rates may fail to meet these projections. Council may be able to manage the impacts of such a variation by changing the proposed timing of capital works projects which are required to support growth. Where the capital works projects have already been completed there

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Dargaville gaining 130 dwellings over the LTP period and 70			these works without the Development Contributions it
more homes built in the following decade to meet a modest			anticipated.
growth in population.			
Council's broad assumption is that dwelling growth rate will be more			
or less consistent with its rating unit growth projections.			
Council is kept constantly aware of new housing developments			
through building and resource consents. This allows Council to be			
kept informed of any deviation from these projections.			
Age Demographics: The usual resident population in the district	Ageing of the population	Low	Increasing the proportion of people aged over 65 relative to
is anticipated to continue ageing with:	is more extreme than		the proportion of the population that is working age will
• 7,600 people in the district (over 29% of the population) aged	predicted.		increase the dependency ratio of the district. The
65 years and over by 2028, up from just 5,100 (22% of the			dependency ratio is the ratio of children and retired people
population) in 2018.			(dependents) relative to the working age population. As the
• 1,790 people in Mangawhai (almost 37% of the population)			dependency ratio increases, the burden on the working
aged 65 years and over by 2028, up from just 1,110 (28.5% of			population increases.
the population) in 2018.			Any significant variation to the assumed aging population
By comparison the number of working age residents (aged 15-64)			profile may result in certain sectors of the community
is expected to remain almost constant at 13,600, 59% of the district			experiencing lower than expected levels of service. Council
population in 2018 but only 52% of the population in 2028.			may have to redirect funding to particular activities to target
Despite a general ageing of population, the number of children in			the wants and needs of an older population. This may
the district is expected to increase by around 300, from 4,500 in			include increasing library services and developing more
2018 to 4,900 in 2028.			passive recreation areas. An ageing population may affect
Source: SNZ's 2013 base high series projections.			the affordability of rates.

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Rating Unit Growth: The assumption is that:			Rating	Unit	growth	Low	Economic conditions and the discretionary nature of the	
district rating ur	nits will increase	by nearly 2,0	000 between 2018	occurs a	at highe	r or lower		housing market can cause variations in Rating Unit growth
and 2028 from	just over 14,600) to 16,200 u	nits, increasing by	rates that	an assu	ımed.		from that assumed. Lower Rating Unit growth than
another 1,700 2038:	units to reach	almost 18,00	00 rating units by					anticipated would have a minimal impact on existing ratepayers.
 strongest growt 	h will be in the s	outhern parts	of the district with					Unforeseen fluctuations in economic conditions can affect
Mangawhai, F	Rehia-Oneriri, I	Kaiwaka ar	nd Maungaturoto					the ability of people to invest in both business and residential
accounting for	nearly 1,700 of	f the 2,000	district rating unit					development activity.
increase betwee	en 2018 and 202	28.						Any significant deviation from rating unit projections will
· rating unit growth in all other parts of the district will be small							affect both rates revenue and development contribution	
and in some ca	ases my decline	slightly in th	e LTP 2018/2028					revenue. Council should be cautious by monitoring rating unit
period.								growth and ensuring it remains close to or meets these
Rating units are exp	ected to increase	e by the follow	wing amounts over					projections.
the LTP 2018/2028	period with annu	al percentag	e changes shown:					Council may be able to manage the impacts of any
Area	2018	2028						downward variation by changing the proposed timing of
Dargaville	2,242	2,289						capital works projects which are required to support growth.
Kaipara North	829	864						Where the capital works projects have already been
West Coast	2,041	2,149						completed there will be increased finance costs as Council
Central	1,942	2,022						would have to fund these works without the rating revenue or development contributions revenue it anticipated.
Maungaturoto	2,048	2,221						development contributions revende it anticipated.
Kaiwaka	1,100	1,338						
Mangawhai	4,461	5,681						
Totals	14,663	16,564						

Forecasting Assumption			Risk				Level of Uncertainty	Reasons and Financial Effect of Uncertainty		
Mangawhai W The assumpt connections to table below. Year 2018/2019 2019/2020 2020/2021 2021/2022 These project Wastewater S the early yea contribution of through their quite different	Vastewater So ions that Cour o Mangawhai V Number of Properties 84 86 109 108 tions reflect the scheme area with rs as they may or have paid of rates. For this , these projection	Year 2023/2024 2024/2025 2025/2026 2026/2027 nat not all growing at not at not all growing at not	Number of Properties 108 109 108 109 109 109 109 109 109 109 109 109 109 109 109 109 109 <tr< th=""><th>ed in the</th><th>Rating occurs a rates th Mangav</th><th>han a</th><th>gher or</th><th></th><th>Medium/High</th><th>Income from Development Contributions assumes these levels of growth. There will be a financial impact if significant variations occur. For Mangawhai, a 10% variation in the annual growth rate will result in a plus/minus variation in the level of wastewater Development Contributions collected of around \$230,000 per annum. Council may be able to manage the impacts of such a variation by changing the proposed timing of capital works projects going forward, particularly those which are required to support growth. Where the capital expenditure has already been incurred there will be increased finance costs which Council would expect to recover through future Development Contributions.</th></tr<>	ed in the	Rating occurs a rates th Mangav	han a	gher or		Medium/High	Income from Development Contributions assumes these levels of growth. There will be a financial impact if significant variations occur. For Mangawhai, a 10% variation in the annual growth rate will result in a plus/minus variation in the level of wastewater Development Contributions collected of around \$230,000 per annum. Council may be able to manage the impacts of such a variation by changing the proposed timing of capital works projects going forward, particularly those which are required to support growth. Where the capital expenditure has already been incurred there will be increased finance costs which Council would expect to recover through future Development Contributions.
projections for Mangawhai as a whole.Absentee to Resident Ratepayers: The percentage of absentee ratepayers is anticipated to decrease slightly over the next ten years, in accordance with recent trends.Based on postal addresses, approximately 74% (72% 06 November 2014) of ratepayers in the Kaipara district (excluding Mangawhai) reside within the district and 26% (28% 06 November				The absente increase expecta	es	b	of bayers eyond	Low	The ability of Auckland's working age population to afford a second home will probably be the greatest driver of uncertainty around this assumption.A high percentage of absentee residents has implications for Council services which must be able to deal with seasonal use. Flexibility can be built into contracts to allow higher or	

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 2014) outside the district. For Mangawhai, 47% (37% 06 November 2014) reside within the district and 48% (56% 06 November 2014) in Auckland and 5% (6% 06 November 2014) elsewhere. The percentage of unoccupied dwellings across the district (excluding Mangawhai) has been increasing by around 0.4% per year from 15.3% in 2006 to 17.9% in 2013. By comparison, the percentage of unoccupied dwellings in Mangawhai has been decreasing by 0.3% per year since 2006 from 55.0% in 2006 to 52.7% in 2013. Source: SNZ. This is consistent with the resident ratepayer data which indicates that more people are moving permanently to the Mangawhai area. It is anticipated this trend will continue and intensify as the nation's ageing population results in more holiday home owners retiring permanently to their holiday houses in areas such as Mangawhai. 			more frequent services to be delivered during the holiday periods. It is expected that the differing demands of resident and absentee communities can be managed and funded for the foreseeable future.
Affordability: Affordability refers to the ability of the community to pay for Council services. Currently, Council's rates are comparable to those of other local authorities and it is intended that future rate increases will not greatly exceed the Local Government cost Index (a measure of inflation applicable to the Local government sector).	Affordability issues affect the ability of the community to pay rates.	Low	A rise in unemployment or a major downturn in the district's economy may result in greater financial hardships for Kaipara's communities. This coupled with a change in the Government's rates rebate scheme could affect the ability of some ratepayers to pay their rates. Neither of these things is expected to occur in the near future. If Council is not able to levy rates on its community, it will have to respond by reducing levels of service.

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Affordability remains a concern with some sections of the			
community earning less than others. However, the Government			
as in place a rates rebate scheme available to low income earners.			
Given this, Council is of the view that it is reasonable to assume			
at the community can afford to meet the levels of rating and that			
nere will not be a significant increase in unpaid rates.			
he following table is based on BERL's estimates of the median			
comes of all households (i.e. both usually resident and non-			
esident households) in the various Kaipara communities, and of			
he average rates paid by all usually resident and non-resident			
ouseholds in the same communities before the application of any			
ebate. It shows that Kaipara rates are typically 3.4% of household			
ncome.			

CAU	Median household income of all	Average annual rates for all	% of median household
CAU	ratepayers (2014)	ratepayers (2014/2015)	income spent on rates
Te Kopuru	\$41,616	\$1,345	3.2%
Kaipara Coastal	\$55,681	\$1,186	2.1%
Maungaru	\$58,659	\$929	1.6%
Dargaville	\$43,143	\$1,976	4.6%
Maungaturoto	\$53,834	\$1,650	3.1%
Ruawai	\$49,094	\$1,096	2.2%
Kaiwaka	\$56,397	\$1,503	2.7%
Rehia-Oneriri	\$56,328	\$1,083	1.9%
Mangawhai	\$65,024	\$2,639	4.1%
Mangawhai Heads	\$63,771	\$2,639	4.1%
Kaipara District	\$56,473	\$1,944	3.4%

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Staffing Assumptions			
Staff Recruitment and Retention: Adequate staffing levels are expected to be maintained and there are not expected to be any recruitment issues when replacing staff. Asset Management Assumptions	Kaipara District Council unable to recruit staff with appropriate skills and experience.	Medium	This may result in delays to project deadlines and impact on the level and quality of service. This risk can be mitigated by various initiatives but these bring operating cost implications.
Contracts: It is expected that there will be no changes in the availability of tenderers for Council contracts when they are tendered.	Contractors become very scarce and difficult to secure, limiting the range for selection and driving costs upward.	Medium	Planned expenditure to meet growth and renewals cannot be carried out.
Capital Works Cost: On average, costs of major capital works will not vary significantly from costs estimated at the concept stage.	Costs rise steeply above estimates.	Medium	Council has a higher level of confidence regarding capital project costs in the short term but less certainty in the longer term due to fluctuations in the economy and district growth trends. Council is proposing a conservative capital works programme over the next ten years. This reduces the level of risk that it faces in this area. A 5% variation in a \$500,000 project would add \$25,000 to the project cost. Given the long useful life associated with many of Council's capital works projects such a variation would not have a significant rating impact.

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			If Council was concerned about the increase in cost then it could look for alternative ways of completing the works and/or change the scope of the works to be completed. Should the cost be lower than estimated there would be a favourable impact on Council's budgets.
Property Designations/Resource Consents: Any new property designations or Resource Consents required for water, stormwater and wastewater systems, or for the significant upgrading of existing systems, will be able to be obtained, subject to conditions acceptable to Council. Any necessary land purchased, prior to the time that has been scheduled for the actual construction works. Council has assumed that there will be no significant changes to existing resource or discharge consent conditions that create	The necessary designations or consents cannot be obtained, or the necessary land purchased, before the scheduled time of construction, resulting in works being delayed.	Medium	The risk can be minimised if Council always has a clear and detailed future forward work programme to which it is committed, for at least the next three years, enabling timely consent applications or timely land purchases This will be achieved through Council's 30 year Infrastructure Strategy.
significant additional costs.	ResourceConsentstandards lead to highertreatmentstandardswhich lead to highercost.	Medium	Higher treatment standards will lead to higher capital and operating costs. While Council can anticipate some of these changes and ensure that they are reflected in budgets the final impact will not be known until the Resource Consent is granted.A significant change could increase compliance costs which
	existing Resource Consents change, or Council is unable to renew these when they expire.		would need to be funded from increasing user charges or rates.

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Drinking Water Standards Council has assumed that there will be no significant changes to the New Zealand Drinking Water Standards that create significant additional costs.	New Drinking Water Standards lead to higher treatment standards which lead to higher cost.	Medium	Higher treatment standards will lead to higher capital and operating costs. Any impacts will not be known until revised Drinking Water Standards are published.
Significant Land Use Changes: There will not be any major changes to land uses in the district that have consequential impacts on Council infrastructure needs.	Unforeseen land use, of a type that has potential significant effects, occurs.	Low	Council will need to assess the situation but this matter is not entirely within Council's hands. A third party may lodge an application for a plan change or non-complying consent at any time. This can lead to higher unforeseen costs in certain areas.
 Building Control: Council will continue to meet the requirements of being accredited by International Accreditation New Zealand in order to maintain its registration with the Department of Building and Housing as a Building Consent Authority. That Council will be faced with a significant leaky building claim is unlikely. <i>Reference</i>: Ministry of Business Innovation and Employment. 	Loss of accreditation so Council could no longer grant Building Consents. A significant leaky building claim has the potential to affect the General Rates.	Low	Council has a continuous improvement programme to focus on ensuring standards are met. There has been investment in additional management resource to support this process as well. Council has always achieved compliance to date. Council has in the past had very limited exposure to leaky building claims, and the improvements to processes arising from accreditation make it even less likely for a substantial claim to arise in future.
District Leadership: The Local Government Act 2002 provisions relating to decision-making and the expectations which the community has on Council is assumed to remain unchanged.	Council is unable to meet community expectations. Changes to key legislation may require reviews on local governance.	Low	There may be increased costs associated with quality assurance for decision-making processes. There is also a loss of confidence from the community which will need to be repaired.

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Local Government structure for Northland and Auckland remains	Amalgamation as a	Low	Restructure costs and the effects of uncertainty and change
the same and no significant shared service or amalgamated service structures are put in place.	result of legislation or otherwise is introduced.		of delivery
Emergency Management: It is assumed that there will be no	A major natural disaster	Low/Medium	Significant additional "one-off" repair costs and rating
natural disasters requiring emergency management work that	occurs.		impacts may be incurred as a result of emergency events.
cannot be funded out of the budgetary provisions.			
No significant legislative changes are anticipated that result in	Legislative changes	Low/Medium	It could be expected that higher operating costs will be
policy and procedural reviews.	result in general and		incurred because of public demands or legislative
	specific costs for		requirements for higher levels of readiness.
	particular items such as		
	tsunami warning		
	systems.		
	Costs of policy and	Low/Medium	
	procedure reviews rise		
	well above budget		
	provisions.		
Roading: There is sufficient provision in the LTP to cope with the	Storms greater than	Medium	Not all costs may be able to be covered by existing budget
effects of likely storm events.	average sized events will		constraints.
	require a reprioritisation		
	of expenditure in the LTP		
	to accommodate the		
	costs to repair the		
	district's roads.		

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Flood Protection: Weather patterns and rain intensity are expected to increase steadily as are tidal sea levels in the future.	Predictions are under or over estimated.	Low	Significant additional "one-off" repair costs and rating impacts may be incurred as a result of storm events. It could be expected that higher operating costs will be incurred because of public demands for higher levels of readiness.
Libraries: Changes in the district's population demographics resulting in greater numbers of retirees and Maori youth, is expected to increase demand for library services. It is anticipated there will be ongoing demands for change in the range and types of services that the district's libraries are expected to provide. Demand for electronic resources in particular is expected to increase.	Demand for services rise steeply or change in type and nature of services.	Low/Medium	The technology associated with reading and the role of libraries is changing. There will be additional costs associated with the new technology and services.
Parks and Reserves: It is assumed that expectations of reserve maintenance, the range and standard of facilities provided, safety and accessibility and compatibility will not change significantly.	Cost of operations and maintenance rise above expectations and start to undermine maintenance standards and community expectations.	Medium	If the increased expectation is to be met, it will increase costs.
Solid Waste: It is assumed that all rubbish will continue to be disposed of outside the district and that the closed landfills will continue to meet Resource Consent conditions.	Landfills outside the district can no longer be used. The district's closed landfills no longer meet Resource Consent standards.	Low	If Council needed to re-commission one or more closed landfills there would be significant extra cost and contingent liability for their operation.

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Stormwater: Demand for new stormwater systems or significant upgrades to stormwater systems are not expected to significantly impact on either asset requirements or operating costs.	Thatdevelopmentdemandexceedsforecastsand/orslowsdown significantly.That a severeweathereventormorefrequenteventsaffectstheintegrity of a system.	Medium	If development increases significantly from forecasts, this may require increased expenditure to increase capacity to meet the demand. Storm damage or response to increased expectations for treatment and/or disposal of stormwater could increase rates within the affected catchment area.
Wastewater Demand: Demand increases will not exceed existing projections and projects in excess of those planned.	That development demand exceeds forecasts or slows down significantly.	Medium	The activity is confined to identified catchment areas, so financial impacts will be within the specific area.
Wastewater Treatment Plants: Resource Consents for major capital works are expected to be obtained without undue delays and consent compliance will therefore be achievable.	Resource Consents are appealed to the Environment Court resulting in significant delays.	Medium	There can be additional costs associated with complying with consent conditions as standards continue to increase. These additional costs will be borne by the catchment area serviced.
Water Supply Demand: Increase in demand over that forecasted for treated water is not expected to significantly impact on either asset requirements or operating costs.	Development demand exceeds forecasts.	Low	Water is charged on a volumetric basis and a change to volume used will be reflected in revenue. Northland may become dryer if climate change predictions hold true.
Severe drought, resulting in water shortages, will not occur to the extent that water supply for human consumption and sanitation is compromised.	Water shortages may result in emergency aid being required and losses in economic opportunities.	Low	Dargaville has historically experienced water shortages during droughts. Steps can be taken, however, to reduce demand and manage water resources more effectively (Drought Management Plans have been developed).

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Water Conservation: Water conservation measures are expected	Conservation methods	Medium	While demand can be managed by regulation, a reduced
to be sufficient to counter the effects on demand arising from	are not sufficient to		water supply would mean reduced income from those supply
adverse drought conditions and high peak season water demand.	counter the effects of a		areas which pay by metered usage.
	drought.		
Asset Management Plan Information: Council has developed	Asset conditions differ	Medium	Any need to increase maintenance budgets and/or renewals
Asset Management Plans for a number of its activities. Council	from the current		expenditure above planned levels would lead to increased
continues to improve its asset planning information - particularly in	information		costs (and therefore rating requirement) for Council. The
regards to asset condition and performance. Asset condition			extent of this risk cannot be quantified
information is accurate			
Financial Assumptions			
Useful Lives Of Significant Assets: It is assumed that no	Some assets may wear	Medium	There is no certainty that asset components will last exactly
significant assets will fail before the end of their useful lives as	out and fail sooner or		their design or assessed lives. However, replacement is
determined in accordance with the depreciation rates set out in the	later than calculated.		budgeted at the expected end of useful life and earlier
accounting policies of Council.			replacement will result in a loss on disposal of any residual
			value. Earlier replacement may result in the deferral of other
			discretionary capital projects in order to remain within
			self-imposed debt limits as set out.
			Some assets are likely to last longer than their design lives
			which would help to balance the effects of any early
			replacement of assets.
Revaluation of Non-Current Assets: Revaluations are planned	The actual inflation rate	Medium	There is no certainty as to what the actual inflation rates will
to be undertaken every three years. It is assumed that these will	may vary from the BERL		be over the next ten years. External influences beyond
be completed on a rotational basis i.e. not all revaluations will occur	inflation factors,		Council control can affect these rates. If the asset class is
in one particular year. For the purposes of this LTP, the values of			depreciable the depreciation will differ from that in the
non-current assets have been increased annually using the			forecast.
applicable BERL inflation factor for each class of infrastructure			
asset.			

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DepreciationRatesonPlannedAssetAcquisitions:Depreciation expenses on new assets acquired within the term of this Plan have been determined at the applicable rate defined within the accounting policies.Price Level Changes:Costs of providing local government services will increase at a higher rate than inflation. Overall the 	That the depreciation rate applied to acquire assets is inaccurate. The price level changes will vary from those used.	Low High	The depreciation expense and funding would differ from that forecast. Provided the Reserve Bank of New Zealand is required to keep general inflation under 4% per annum, the projected changes in price levels will vary only slightly. The effect of any variation up, or down, will result in either higher or lower
2.7% respectively. Cost structures faced by local government will continue to differ significantly from the Consumer Price Index "basket".The principal assumption made for the ten year period between 2018 and 2028 is that annual inflation will occur at rates broadly in			rate requirements. Based on a projected annual operating expenditure of \$45 million, a plus/ (minus) 1% movement in the forecast inflation rate would result in an approximate movement in operating costs of plus/ (minus) \$450,000. Similarly, with an annual capital works
line with the average of the cost indexing estimates collected for local government use by the Society of Local Government Managers (see table below). Cost factors will mirror the inflation indices referred to in the above assumption.			programme of \$15 million a plus/ (minus) 1% movement in the forecast inflation rate would result in an approximate movement in capital costs of plus/ (minus) \$150,000. If the impact of inflation on Council's budgets turns out to be higher than forecast and Council did not wish to generate additional revenue by increasing rates, then either additional
In general, adjustors for construction-related activities (i.e. pipelines, earthmoving, roads and water) show the greatest cumulative change over the forecast horizon (2018/2028). Much of this occurs over the early-to-middle years of this period. The overall the LGCI is anticipated to increase a total of 28.2% from June 2018 to 2028. This corresponds to an average increase of 2.78 % per annum.			operational efficiencies or reduction in service levels or planned capital expenditure would need to be considered. Should the impact of inflation turn out to be lower than forecast then there would be a favourable impact on Council's operating and capital expenditure budgets.

ecasting Assumpt	ion		Risk	Level of Uncertai		ancial Effect of Uncertaint
			Adjustors: % Per	annum chang	je	
	(TI	ne white area represents	figures based on ac	tual data while th	ne remainder are project	ions)
	Adjustors					
	Label	Planning and regulation	Roading	Transport	Community activities	Water and Environmental
	Label	PR	RD	TR	CA	WE
	Year					
	ending		% chang	ge (on year earliei	r)	
	Jun 15	1.5	2.3	1.6	1.8	3.2
	Jun 16	0.8	1.4	1.1	1.6	2.1
	Jun 17	1.4	1.6	1.6	1.8	1.2
	Jun 18	1.8	1.9	1.9	1.7	1.8
	Jun 19	2.0	2.0	2.0	1.7	2.3
	Jun 20	2.1	2.2	2.0	2.0	2.5
	Jun 21	2.1	2.2	2.1	2.1	2.3
	Jun 22	2.1	2.3	2.2	2.1	2.4
	Jun 23	2.2	2.4	2.2	2.2	2.4
	Jun 24	2.3	2.4	2.3	2.3	2.5
	Jun 25	2.3	2.5	2.4	2.3	2.6
	Jun 26	2.4	2.6	2.5	2.4	2.6
	Jun 27	2.4	2.7	2.5	2.4	2.7
	Jun 28	2.5	2.8	2.7	2.6	2.8
						BERL

Forecasting Assumption	Risk	Level of Uncertainty	Reasons and Financial Effect of Uncertainty
NZ Transport Agency Subsidy Rate: The NZTA's financial assistance rate (FAR) for Kaipara District Council has been set at 61%. It is assumed that this FAR will remain for the life of the plan. It is also assumed that the level of subsidy will increase in proportion to increased costs.	There is a risk that subsidy rates will reduce within the 10 year period.	Medium	Roading activities dominate Council's expenditure. Any change in the subsidy rate has a direct impact on Council's budget, level of rating or level of service.
Interest Rates on Borrowing: The forecast interest rates are the actuals for existing loans and swaps. The interest cost of the new debt or refinanced debt is assumed to be at an average of 4.39%, which is a conservative estimate, using the long term average forecasts and a margin of 0.75% - 1.0% assuming that we continue to borrow from the Local Government Funding Agency (LGFA). The combined all up of cost is assumed to be 5.27%.	Interest rates will increase beyond those budgeted for in the 10 year LTP period.	Medium	Interest costs on borrowing.A 1% variation in interest rates would give the following increases in interest costs at the following levels of debt:Total Debt\$60\$55\$50\$40millionInterest \$millionVariance with Movement of:\$600,000\$550,000\$550,000\$500,000increase in interest costs equates to approximately a 1.5% increase in rates for 2018/2019.
 Refinancing Term Loans/External Funding: Currently loans are directly attributable to particular costs. Internally, loan repayments are made over five years for IT and similar short life expenditure, 10 years for the District Plan and 20 years for infrastructural assets except for the Mangawhai Wastewater Scheme which is over 30 to 40 years depending on the debt tranche. External loans are managed on a portfolio basis and refinanced in accordance with the parameters of the LTP, the liability management policy and on the advice of Council's Treasury Advisors. Refinancing of external loans is assumed to be readily achieved. Council expects to maintain a significant lead-in time within which it can seek to lock in funding at acceptable margins. 	Refinancing of external loans is difficult.	Low	The refinancing of Term Loans/External Funding may prove difficult to secure due to conditions within financial markets. This could lead to increased borrowing costs. Council will look to manage this risk by maintaining significant lead-in time before debt is needed.

Forecasting Assumption	Risk	Level of Uncertainty	Reasons and Financial Effect of Uncertainty
 Internal Borrowing: Operational reserves (such as the Land Subdivision Reserve) and other reserves are utilised in the first instance to minimise external debt funding. These reserves are effectively on call. Lump Sum Payments: That a proportion of property owners connected to the Mangawhai Wastewater Scheme paying the Capital Contribution A – F targeted rate will pay for their share of the capital costs of building the Scheme via a lump sum rather than over the 30 year term as a targeted rate. Council has assumed that take up of the offer is assumed to be minimal at this stage. 	That the reserves are required in short timeframes and Council's liquidity facilities are insufficient. That the number of property owners taking up the lump sum option will be higher or lower than forecast.	Low	Expenditure is planned through the Annual and LTPs. Council operates within the parameters of its Treasury Policy which incorporates the liquidity and liability management policies. Any lump sums collected will be used to reduce debt. Acceptance by 10% of property owners would reduce debt by approximately \$860,000. A property having paid the lump sum will also no longer be liable for paying a capital contribution via a targeted rate. Hence, any variance in the number of properties paying lump sums will not affect the targeted rate for capital costs payable by other properties.
Vested Assets: Council does expect to receive vested assets over the life of this Plan. Sources For Funds For Future Replacement of Significant	The value of vested assets is greater than predicted thereby increasing depreciation expense. The main risk is that	Medium	From time to time developers will seek to vest certain assets in Council in lieu of making payments for financial or Development Contributions.
Assets: It is assumed that funding for the replacement of significant assets will be obtained in accordance with Council's Revenue and Financing Policy.	budgets for some capital replacements may not have been included and sources may not meet requirements.		of significant assets will not be achieved. Funding of all asset replacements during the life of the LTP has been disclosed.

Forecasting Assumption	Risk	Level of	Reasons and Financial Effect of Uncertainty
		Uncertainty	
Other Assumptions			
Structure of Local Government: This LTP is prepared on the assumption that the structure of local government in Northland will remain unchanged over the life of the Plan.	There may be substantial changes to the structure of local government in	Low	The Local Government Commission has confirmed there will be no further amalgamation between the Northland councils but that they will continue to support the development of co- operative practices.
Climate Change: It is assumed that there will be no significant	Northland. Climate Change may	Medium	In the event that climate change causes more frequent
changes in weather patterns that will impact current cost structures, beyond the estimated impacts in flood protection services.	of droughts and storm events and associated flooding.		extreme weather events, the cost of managing Civil Defence Emergencies will rise. Furthermore the impact of more frequent droughts on the primary sector has the potential to affect the prosperity of the district as a whole.
Emissions Trading Scheme : Council currently holds New Zealand units for pre-1990 forests, but does not plan on surrendering or obtaining any units. With the sale of much of the woodlot these units may be available for sale.	In the event that pre- 1990 forests are lost and could not be replanted or regenerated Council would need to surrender or purchase credits.	Low	As Council is not planning on deforesting any of its land, it would have the New Zealand Units available to meet any unforeseen events.
Local Government Funding Agency (LGFA)			
Guarantee Obligations: Council has become a "guaranteeing local authority" in the LGFA when it joined the Agency. This means it will have guarantee obligations. At the year end 2017 Councils exposure was \$903,000.	Council is one of 44 local authorities that guarantee LGFA's borrowings. These could be called on if LGFA defaulted on repayments of interest or capital.	Low	Council considers the risk to be low.