

EXTERNALLY FUNDED PROJECTS: WATER

Project Name	Kai Water	Date of Report	2/02/21
Current Phase	Implementation	Project Manager	Curt Martin

COMPONENT	Schedule	Amber	Budget	Green	Risks/Issues	Amber
PREV. MONTH	Schedule	Amber	Budget	Green	Risks/Issues	Amber

Comment (mandatory if status indicator red or amber)

Schedule is currently Amber due to delays in reaching agreement on the contract with Northland Inc for site management & maintenance and the delay due to limited availability of local seed drill equipment for larger seeds.

Risks/ Issues is currently Amber in reflection of the risk of missing the Summer planting season for Sites 1 & 2 due to delays in reaching agreement on the contract with Northland Inc for site management & maintenance.

OVERALL BUDGET (\$)	CURRENT FY BUDGET (\$)	SPEND TO DATE (\$)	BUDGET SPENT TO DATE (%)
740,000	489,964	220,577	30%

PROJECT FUNDING ALLOCATIONS

Infrastructure Reference Group (IRG)	\$0
Provincial Growth Fund (PGF)	\$740,000
Kaipara District Council	\$0
Other (e.g. Waka Kotahi)	\$0

PROJECT BUDGET BY PHASE

INVESTIGATION (\$)	DESIGN (\$)	CONSTRUCTION (\$)
40,000	Included in Construction costs	\$700,000

COMMENT

'Construction' cost includes on-going management & operation of the demonstration sites & associated cropping

PROJECT BACKGROUND

In April 2020, Council secured funding of \$740,000 from MBIE, enabling the establishment of two practical working examples of irrigating high value horticultural crops in the Kaipara. These demonstration sites are intended to be used to inform landowners and external investors about high value land and water use and the application of innovative technologies. Access to practical working examples, expert advice and local knowledge will provide decision support and confidence in transforming land usage towards horticulture in the Kaipara.

Demonstration Site 1

Is located on Te Roroa land at Maunganui Bluff and will include an inground irrigation and fertigation system that covers approximately 2 hectares. It will demonstrate precise water and nutrient delivery on a range of vegetable crops that can be programmed and delivered remotely via a web application in combination with on-site management.

Demonstration Site 2

Is located in Te Kopuru and includes a 242-metre span centre pivot irrigator that will irrigate approximately 10 hectares. This equipment includes remote control and the ability to deliver water and nutrients in different measures to cater specifically to different crop types.

UPDATE FROM PREVIOUS MONTH – LAST MONTH'S ACTIVITIES

- Draft contract between KDC & Northland Inc. for site management & maintenance drafted and forwarded to Northland Inc. On-going dialogue with Northland Inc. regarding the scope of the management contract balanced against the available budget

Site 1

- Site 1 construction works completed

Site 2

- Site 2 construction works progressed
- Water storage reservoir & associated synthetic liner removed from scope due to ongoing issue regarding cost of supply. The pivot irrigator is instead to be supplied direct from the creek in accordance with resource consent

ACTIVITIES GOING FORWARD – THIS MONTH'S ACTIVITIES

- Contract between KDC & Northland Inc. for site management and maintenance finalised, or alternative solution identified

Site 1

- Initial crops planted

Site 2

- Site 2 construction works completed
- Initial crops planted

COMMUNITY ENGAGEMENT / MEDIA ACTIVITY PLANNED – NEXT TWO MONTHS

- Opening event for both sites to be arranged once sites have been planted

DECISION PAPERS SUBMITTED: PENDING DECISION

- None

PROJECT MILESTONES	STATUS (R, A G)	BASELINE (PLANNED) COMPLETION DATE)	EXPECTED COMPLETION DATE	COMMENTS (MANDATORY IF STATUS INDICATOR RED OR AMBER)
Contract executed	Complete	Complete	Complete	
Site 1 Award physical works contracts	Complete	Complete	Complete	
Site 2 Award physical works irrigation equipment contract	Complete	Complete	Complete	
Site 2 Award physical works civil contract	Amber	Dec 2020	Feb 2021	Was delayed pending agreement on the cost to supply and install the synthetic liner (specialist sub-contractor) required for the water storage reservoir. Revised scope excluding the water storage reservoir currently being priced
Site 1 Construction commencement	Complete	Complete	Complete	
Site 2 Construction commencement	Complete	Complete	Complete	
Site 1 Construction complete	Complete	Complete	Complete	
Site 2 Construction complete	Amber	Jan 2021	March 2021	As above
Site 1 Opening Event	Green	Feb 2021	March 2021	Variation confirmed with MBIE for events to occur when crops are established instead
Site 2 Opening Event	Green	Feb 2021	March 2021	As above

OPEN PROJECT RISKS	PREV MONTH (R,A,G)	STATUS (R,A,G)	OWNER	COMMENTS
<p>Site 2</p> <p>There is a risk of insufficient water in the creek to supply water for irrigation.</p>	New Risk	Amber	Curt Martin	<p>Creek appears to have below average flows and the resource consent restricts water take when the creek is < 19 L/sec.</p> <p>This risk will be mitigated when the Te Tai Tokerau Water Trust constructs its proposed reservoir upstream of the creek supplying the site.</p>
<p>Sites 1 & 2</p> <p>There is a risk of missing the late Summer planting season</p>	Amber	Amber	Curt Martin	<p>Delays in reaching agreement with Northland Inc. regarding the scope of the management contract balanced against the available budget.</p> <p>This could result in missing the season (March onwards is too late to plant). The project team has reviewed crops best suited to planting this stage of the season.</p>

OPEN PROJECT ISSUES	PREV MONTH (R,A,G)	STATUS (R,A,G)	OWNER	COMMENTS
<p>Site 2</p> <p>Quoted cost to supply and install the synthetic liner (specialist sub-contractor) required for the water storage reservoir higher than estimated.</p>	Amber	Closed	Curt Martin	<p>Issue closed – removed water storage reservoir & associated synthetic liner from scope. Pivot to be supplied direct from the creek.</p>
<p>Sites 1 & 2</p> <p>Availability of local seed drill equipment for larger seeds</p>	Amber	Amber	Curt Martin	<p>Northland Inc. assessing options. Hand planting is an option but more labor intensive.</p>