

Indicator	Examples for rating -5 - +5, Questions to assist in decision making
TANGAROA	
1. Riverbank Condition	-5 – River bank is permanently dry 1 – Human induced erosion / modification +5 – No human induced erosion / modification
2. Sediment on Riverbed	-5 – sedimentation completely over topping stream bed. No space for animal to live/move 1 – Covered in slime/mud/sediment/weed +5 – Clear of slime/mud/sand/sediment/weed
3. Water Clarity	-5 – Anaerobic conditions 1 – Water is badly discoloured +5 – Water is clear
4. Water Flow	-5 – flow stopped, blocked up 1 – The flow sounds dead / monotone +5 – The flow sounds alive / many tones
5. Water Quality	Q – <i>Would you drink the water, eat fish from it, swim in it?</i> -5 – Completely dry, no standing water 1 – Appears polluted by foam, oil, slime, weed etc. No way I would drink it! +5 – No pollution evident. Water is more than suited for drinking
6. Shape and form of River	Q – Are there a variety of habitats, pools, riffles and rapids? -5 – Completely dry and cannot support fish/insect life 1 – Little or no current, uniform depth +5 – Current and depth varies, a variety of different flow related habitats
7. Insect Life	Outline sampling method i.e., Observation over 10 minutes of flying insects i.e., lifted 5 rocks and noted insects' present in-stream. Note species and numbers
8. Fish Species	Outline sampling method i.e., Electric fishing, spotlighting, netting etc. Note species and numbers
TANE MĀHUTA	
9. Riparian Vegetation	Q – Is there vegetation present within 20m of a stream or 50m of a river? And does it shade the waterway? -5 – Dead vegetation, toxic to life 1 – Little or no riparian vegetation +5 – Complete cover of mainly native vegetation
10. Catchment Vegetation	Q – What is the mix of Pasture, Horticulture, Native, Exotic Forestry, Other?

	<p>-5 – No vegetation but evidence of past occurrence over large areas</p> <p>1 – Only one or two types of exotic vegetation</p> <p>+5 – Wide variety of native or native/exotic vegetation</p>
11. Bird life (manu)	Outline sampling method i.e., Observation over sampling time. i.e., Observation over 10 minutes. Note species and relative numbers. Is the bird song weak or strong? Score 0-5, Numbers Present 0 – 1, 1 – 10, 10 – 100
12. Ngahere Taonga	<p>Note main plant species. Are there opportunities for timber, fruit, or fibre harvest? Are trees seeding? Do plants have special characteristics/properties? Do areas include rocks/stone that has been used for cultural use? E.g., pakohe (argillite).</p> <p>In an apocalypse, can I make a fire, build shelter, make clothing, dry produce (eel racks etc), signal for help/communication, can I collect Rongoa, mahinga kai, make weapons to defend my area, can I build a waka? Score -5 - +5 can be assigned</p>
13. Pest plants/animals	Note species and negative effects. Has any control taken place? If so, has it been successful?
HAUMIA/RONGO	
14. Mahinga Kai	Note plant, animal, fish, bird species. Are they harvestable both in quality and quantity?
15. Rongoa	Note plant species. Are they harvestable both in quality and quantity?
TŪMATAUENGA	
16. Use of River	<p>Q – Is the river being used well?</p> <p>-5 – No access possible, private property</p> <p>1 – Gravel extraction is excessive, few opportunities for recreation/cultural use, fish passage is poor, vehicles are driving in river</p> <p>+5 – Gravel extraction is light or non-existent, opportunities for recreation/cultural use abundant, fish passage not artificially blocked, vehicles do not have access to water</p>
17. Use of River Margins	<p>Q – Do stock have unfettered access to waterway? Is the dumping of rubbish occurring? Does 'council river works' maintain the mauri and wairua?</p> <p>-5 – toxic life, even to stock</p> <p>1 – River margins are heavily modified or overused</p> <p>+5 – River margins are lightly modified or lightly used</p>
18. Access to River	<p>Q – What is the legal and physical access to the river like?</p> <p>-5 – No legal and/pr physical access, private property</p> <p>1 – Poor legal and/or physical access</p> <p>+5 – Good legal and/pr physical access</p>
19. Cultural Site Note site type	Q – If the site is an archaeological/cultural site, how has it been looked after? Note modifications, destruction, erosion etc.

	<p>-5 – Known cultural site but has been destroyed/removed from landscape</p> <p>1 – Cultural site has been poorly looked after</p> <p>+5 – Cultural site has been well looked after</p>
TAWHIRIMĀTEA	
20. Smell of River	<p>Q – Does the river has a natural or unnatural smell?</p> <p>-5 – River makes you feel sick, dead wildlife present</p> <p>1 – River has an offensive or unnatural odour</p> <p>+5 – River has a natural smell</p>
21. Weather	<p>-5 – sever heat or cold, poor visibility/fog/damaging wind</p> <p>1 – Wet and cold</p> <p>2.5 – Overcast and mild</p> <p>5 – Sunner and overcast</p>
ORA/WAIRUA/MAURI	
22. Feeling in puku	<p>-5 – Overall gut feeling about the site is extremely bad</p> <p>1 – Overall gut feeling about the site is poor</p> <p>+5 – Overall gut feeling about the site is excellent</p>
TOTAL CHI RATING	Calculated from the average score of components 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 16, 17, 18, 19, 20, 21 and 22

Rangitāne o Manawatū Cultural Indicators Form – (adapted from the CHI, Tipa & Teiney; 2003)

Name of waterway:		Name:
Catchment:		Landholder: DoC, Public, Private, Other
Site Number:		Adjacent landuse (circle as appropriate): 1 Pasture 2 Horticulture 3 Native 4 Exotic Forest 5 Scrub 6 Residential 7 Commercial 8 Industrial 9 Recreation
Date:		Site status: A. Traditional B. Non-Traditional
Time:		Mahinga Kai: 1. Present 2. Absent
Coordinates:		Future: 1. Will return to manage 2. Wouldn't return
TANGAROA	Rating (-5 - +5)	Comments
1. Riverbank Condition		
2. Sediment on Riverbed		
3. Water Clarity		
4. Water Flow		
5. Water Quality		
6. Shape and form of River		
7. Insect Life (method, no. & species)		
8. Fish species (method, no. & species)		
TANE MĀHUTA	Rating (-5 - +5)	Comments
9. Riparian Vegetation		
10. Catchment Vegetation		
11. Bird Life (method, no. & species)		

12. Ngahere/Taonga		
13. Pest plants/animals		
HAUMIA TIKETIKE and RONGOMĀTĀNE	Rating (-5 - +5)	Comments
14. Mahinga Kai (no. & species)		
15. Rongoa (no. & species)		
TŪMATAUENGA	Rating (-5 - +5)	Comments
16. Use of River		
17. Use of River Margins		
18. Access to River		
19. Cultural site (yes/no)		
TAWHIRIMĀTEA	Rating (-5 - +5)	Comments
20. Smell of River		
21. Weather		
OVERALL HEALTH – ORA	Rating (-5 - +5)	Comments
22. Feeling in puku		
TOTAL RATING (Components 1, 2, 3, 4, 5, 6, 9, 10, 11, 12, 16, 17, 18, 19, 20, 21 and 22)	/85	