

ORAKEI BASIN ADVISORY GROUP

TERMS OF REFERENCE

Background

The Auckland Council's Governing Body on 22 August 2013 clarified the decision-making for specific parks and in doing so referred to the Council's Long-Term Plan 2012-2022 which allocates decision-making for '*regional parks listed in schedule 1*' to the governing body, while 'local parks' are allocated to local boards". The Governing Body then lists various parks to be allocated. Orakei Basin and the reserves shown in the Orakei Basin Management Plan have not been allocated to the Governing Body or to any other entities. Therefore, Orakei Basin and the reserves listed in the Orakei Basin Management Plan are deemed to be local parks.

Acting under this allocated authority from the Governing Body, the Orakei Local Board of the Auckland Council has the governance responsibility for Orakei Basin and the following reserves, as more particularly shown on the **map attached hereto**: Orakei Basin West Reserve, Orakei Basin East Reserve, Lucerne Road access, Kelvin Road Reserve, MacPherson Street Reserve and access, Waiatarua Road access, Bonnie Brae Reserve, Meadowbank Reserve.

The Orakei Local Board has the responsibility for implementing the Orakei Basin Management Plan, which was approved by the former Auckland City Council in September 2010.

The Orakei Basin Management Plan provided for the establishment of an advisory group (The Orakei Basin Advisory Group), the establishment and purpose of which were approved by the Auckland Council's Regional Development and Operations Committee on 16 June 2011 for which terms of reference were also approved.

The stated purpose of the Advisory Group was to "assist the Auckland Council in managing the Orakei Basin and surrounding open spaces by providing advice and advocacy in relation to these areas and any other role(s) allocated to it by the Auckland Council". It was envisaged at that time that governance would be by way of a committee of the Governing Body to which the Group would report annually by way of minutes of the Group's regular meetings, with copy to the Orakei Local Board. While it was envisaged that the Group was an "advisory" group, a number of what might be considered both governance and management roles were given to it, although it was clear that the Group would "not have any regulatory or decision-making responsibilities and will not hold any funding".

Given the governance allocation to the Orakei Local Board, and noting errors in the Terms of Reference about when members of the Group are to be appointed, it is appropriate and necessary for the Terms of Reference to be amended and updated according to the Orakei Basin Management Plan.

The new Terms of Reference are attached hereto.

ORAKEI BASIN ADVISORY GROUP

TERMS OF REFERENCE

The Orakei Local Board (“the Board”) is the governance body which works with Auckland Council staff to plan, programme and fund projects to achieve the outcomes identified in the Orakei Basin Management Plan (“the Plan”). While a Council parks officer will be a member (ex officio) of the Orakei Basin Advisory Group (“the Group”) to provide technical advice at meetings, liaison between the Group and Council staff and Council contractors will be through the Council’s representative on the Group, who will be appointed by the Orakei Local Board after each triennial election. This, for the time being will be the Local Board member who holds the parks and reserves portfolio.

While it is expected that all consultation with the Group is meaningful, to remove all doubt, the Board shall be the final decision-making authority.

It is also expected that the Group will meet regularly as agreed, and keep a record of meetings and agreed recommendations. Decisions at meetings will be by consensus. The Group is expected to report formally at least quarterly to the Board on the Group’s activities, although there must be ongoing informal liaison.

Purpose of the Orakei Basin Advisory Group

- (1) To operate in accordance with the Terms of Reference.
- (2) To advise, and advocate to, the Board on works identified in the Plan and progress thereof, which will assist the Board to determine areas of priority and to allocate budget funding to deliver the objectives of the Plan.
- (3) To work with the local community and landowners adjacent to the Orakei Basin to advocate for land use practices which support the objectives of the Plan, which the Plan cannot address such as erosion control, planting, weed and vermin clearance on private property.
- (4) To encourage and work with residents in the area to support the objectives identified in the Plan.
- (5) To set up a “Friends of Orakei Basin” group, as required by the Plan, whose purpose is to assist with education of residents regarding erosion management and weed control as envisaged by the Plan and to be responsible for carrying out approved voluntary activities working with Council staff, on local projects such as planting and weed and vermin clearance.

Membership

The membership of the Group will be appointed by the Board triennially following each local government election. The Board shall have the discretion to make further appointments to the Group from time to time, or to remove members from the Group by resolution of the Board.

In determining the composition of the Group, the Board has included those from the stakeholders and the wider community who will bring together a range of views and support: a representative of Ngati Whatua Orakei which with the Board shares *kaitiaki* or guardianship of the area; members of the present organisations which use the Orakei Basin for maritime activities; a member of the Board which has the governance of the Orakei Basin; a member of the council’s parks staff to provide technical advice at the group’s meeting.

The membership of the Orakei Basin Advisory Group will consist of:

- a member appointed by Ngati Whatua
- a member of the Auckland Water Ski Club

- a member of the Orakei Yacht Club
- a member of the Orakei Sea Scouts
- a member of the Akarana Young Mariners
- a member of Youth Town
- a member of the Orakei Local Board
- a Council parks officer (ex officio).

The Orakei Local Board shall be responsible for reviewing and confirming the membership of the Group and, if deemed necessary by the Board, reviewing and updating the Terms of Reference after each triennial election.

The Orakei Local Board member, who for the time being holds the parks and reserves portfolio, shall be responsible for convening the first meeting and ensuring the appointment of a Chairperson of the Group by way of a majority vote.

Approved by the Orakei Local Board on 20 April 2017.

Area included within Orakei Basin Management Plan 2010



Policy number	Policy	OBAG survey question
9	In consultation with Iwi, decide on the appropriate form of interpretation for sites of Maori cultural significance and treatment of these sites.	1. What is an appropriate form of interpretation for sites of Maori cultural significance, and treatment of these sites?
13	Establish an advisory group to prepare an 'action plan' to prioritise work to be delivered, based on the objectives and policies contained within the management plan.	2. What progress has been made by OBAG in preparing an 'action plan' of prioritised works to be delivered, based on the management plan's objectives and policies?
14	Ensure that proposals for new buildings and structures, or alterations to existing buildings are considered in terms of:	3. In regards to proposals for new buildings and structures, or alterations to existing buildings, is consideration given to the following factor:
	Need to be in the reserve	(a) whether existing buildings are fully utilised?
	Existing buildings are fully utilised	4. How fully utilised are the existing buildings, and is there unused space for expansion of your activities?
	Visual impacts on cultural and landscape values	
	Design and materials are appropriate for the site and receiving landscape character	
	Ecological impact is minimal	
	Long term maintenance cost	
	Structures no longer required are removed	
17	Improve access by providing connections where gaps are apparent within the walkway network around Orakei Basin reserves and key connections to other public areas	5. Can you identify new connections that can be made to improve access within the walkway network around Orakei Basin reserves, including key connections to other public areas?
		6. Do you have any comment on how well this policy has been achieved to date?
20	Undertake dredging within the Basin should it be identified through the sediment monitoring programme that ongoing sedimentation is significantly adversely affecting water based recreation activities currently undertaken, such as water skiing and small boat sailing.	7. Is sedimentation adversely affecting water based recreation activities currently undertaken in the Basin?
		8. Is dredging of the Basin necessary to support the continued use of the Basin for water based recreation activities?
26	Undertake improvements to existing water access areas. In particular, the main car park and boat ramps at Orakei Basin West Reserve.	9. Can you identify improvements that can be made to existing water access areas?
28	Consider new opportunities for water access. For example, appropriate scale landings and structures.	10. Are there new opportunities for water access that can be pursued, such as appropriate scale landings and structures?
34	The Orakei Basin Advisory Group will play a key role in public education on practices on private land to minimise erosion and silt entry into waterways.	11. What initiatives has OBAG been involved in to support public education on private land practices that can minimise erosion and silt entry into waterways; manage pest control, and support plantings on private property? 12. Can you identify future opportunities that can support these outcomes?

ORAKEI BASIN BASE-LINE MONITORING FORM

CHI Number: 10853	NZAA Site Number: R11/1765
Name of place or area: Kelvin Reserve	Type of place or area: Shell Midden
Location of place or area: 67 Kelvin Road, Remuera	Grid Ref: Easting 1761991 Northing 5917541
Aids to relocation of site: See site record form	
Description of historic heritage resource: <i>Subsurface midden deposit in public reserve identified by probe. No material was noted on the surface contrary to previous records. Recent slope remediation works on east side of reserve, including the installation of geotech cloth, may have obscured any exposed midden. In safe condition subsurface.</i>	
Size of site: Perimeter: 15.8m Area 14.5 sq m	
Special features of place or area:	

Contextual Information		
Name of fieldworker/s: <i>JM RR</i>		Date of visit: <i>16/03/2018</i>
Organisation: <i>Auckland Council</i>		Weather: <i>Clear</i>
Site visibility: <i>Good</i>		Site access: <i>Public reserve</i>
Land owner:		Owner contact information:
State / Condition		
Indicator	(Tick appropriate box)	Notes
Current land use/use of place or area	<input type="checkbox"/> Active Coastal Zone <input type="checkbox"/> Agricultural <input type="checkbox"/> Bush cover <input type="checkbox"/> Commercial <input type="checkbox"/> Cultivation <input type="checkbox"/> Farming /Grazing <input type="checkbox"/> Industrial <input type="checkbox"/> Memorial <input type="checkbox"/> Not used or occupied <input type="checkbox"/> Production forestry <input checked="" type="checkbox"/> Recreational (Reserve or other protected public land) <input type="checkbox"/> Residential <input type="checkbox"/> Transport/Communication <input type="checkbox"/> Under development <input type="checkbox"/> Urban <input type="checkbox"/> Other (specify)	
Current land use adjacent to place or area	<input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <input type="checkbox"/> No adjacent places and areas	Specify any differences <i>Residential</i>
Type of vegetation cover surrounding place or area	<input checked="" type="checkbox"/> Pasture <input checked="" type="checkbox"/> Predominantly exotic weed or scrubland <input checked="" type="checkbox"/> Exotic or indigenous forest <input type="checkbox"/> Non-vegetated <input type="checkbox"/> Other (specify)	<i>Mix of vegetation cover. Grass, scrub, and mature trees</i>
Integrity of site:	<input checked="" type="checkbox"/> None or very few signs of loss or modification <input type="checkbox"/> Small areas or partial loss or modification <input type="checkbox"/> Large but localised areas of loss or modification <input checked="" type="checkbox"/> Site/area almost completely or completely destroyed	Specify areas and types of disruption:
Fencing (if relevant)	<input type="checkbox"/> Secure, intact fencing around heritage resource <input type="checkbox"/> Most of place or area fenced, but some small, recent breaks <input type="checkbox"/> Some fencing poorly maintained with large breaks <input checked="" type="checkbox"/> No fencing	
Rate of deterioration	<input checked="" type="checkbox"/> None apparent <input type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	
Condition	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Average <input type="checkbox"/> Poor <input type="checkbox"/> Unknown	

Site Pressures/Threats		
Indicator	Estimate (Tick appropriate box)	Notes (location of damage, particular species etc)
Primary threat	<input type="checkbox"/> No immediate threat <input type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input checked="" type="checkbox"/> Parks Infrastructure/ maintenance <input type="checkbox"/> Other (Specify)	<i>Installation of park bench in area of midden. No exposure evident.</i>
Secondary and potential threats	<input type="checkbox"/> No immediate threat <input checked="" type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure / maintenance <input type="checkbox"/> Other (Specify)	<i>Mature well-established vegetation, potential root damage. Increasing erosion at toe of headland, possible future damage to the midden site</i>
Description of Threats		
Vegetation		
Issue	<input checked="" type="checkbox"/> Root invasion <input type="checkbox"/> Tree fall <input type="checkbox"/> Vegetation cover <input type="checkbox"/> Other (specify)	<i>Mature vegetation in place, as well as neighbouring gardens, may have an effect on subsurface deposits</i>
Extent of vegetation cover over place or area	<input type="checkbox"/> Vegetation absent or very uncommon (<10% of place or area) <input checked="" type="checkbox"/> Vegetation over 10-20% of place or area <input type="checkbox"/> Vegetation over 20-50% of place or area <input type="checkbox"/> Abundant vegetation over 50% or more of place or area	Specify whether native or exotic species
Can threat be minimised? Yes No	If so how?	Priority:

Erosion		
Type	<input type="checkbox"/> Coastal <input checked="" type="checkbox"/> Fluvial <input type="checkbox"/> Wind <input type="checkbox"/> Siltation <input type="checkbox"/> Rain <input type="checkbox"/> Mass movement <input type="checkbox"/> Subsidence <input type="checkbox"/> On-going deterioration <input type="checkbox"/> Other (specify)	<i>Toe of headland eroding into creek. No evidence of archaeology affected by this erosion but could become an eventual problem.</i>
Effects of erosion or subsidence	<input type="checkbox"/> No signs of erosion <input checked="" type="checkbox"/> Occasional signs of erosion (<20% of area) <input type="checkbox"/> Common signs of erosion (10-50% of area) <input type="checkbox"/> Abundant signs of erosion (>50% of area)	
Can threat be minimised? Yes No	If so how? <i>Coastal stabilisation works necessary</i>	Priority: <i>Low</i>

Natural Disasters		
	<input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Earthquake <input type="checkbox"/> Lighting <input type="checkbox"/> Other (specify)	
Disasters	<input checked="" type="checkbox"/> No sign of any fire, landslide, earthquake or other disaster <input type="checkbox"/> Fire, landslide, earthquake or disaster occurred since last visit on place or area, but no damage <input type="checkbox"/> Limited or localised damage on place or area from fire, landslide, earthquake or other disaster since last visit <input type="checkbox"/> Severe or widespread damage on place or area from fire, landslide, earthquake or other disaster since last damage	
Can threat be minimised? Yes No	If so how?	Priority:

Development		
Development	<input type="checkbox"/> Subdivision <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Transport/Communication <input type="checkbox"/> Public works <input type="checkbox"/> Other (specify)	
Effects of Development	<input checked="" type="checkbox"/> No signs of draining, roading or other development activities <input type="checkbox"/> Occasional, localised signs of draining, roading or other development activities <input type="checkbox"/> Common signs of draining, roading or other development activities, but limited to certain areas <input type="checkbox"/> Widespread signs of draining, roading or other development activities throughout the area.	
Can threat be minimised? Yes No	If so how?	Priority:

Visitor Impacts		
Visitors	<input checked="" type="checkbox"/> Trampling <input type="checkbox"/> Vandalism <input type="checkbox"/> Fossicking <input type="checkbox"/> Rubbish <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> Graffiti <input type="checkbox"/> Other (specify)	<i>Potential increase in erosion from public access of water from badly eroded headland</i>
Effects of Visitor s	<input type="checkbox"/> No signs of visitor impact upon place or area <input checked="" type="checkbox"/> Occasional localised signs of trampling, vehicular damage, rubbish fossicking or other visitor impact <input type="checkbox"/> Common signs of trampling, vehicular damage, rubbish, fossicking or other visitor impact, but limited to certain areas <input type="checkbox"/> Abundant signs of trampling, vehicular damage, rubbish, fossicking or visitor damage	
Can threat be minimised? Yes No	If so how? <i>Coastal stabilisation works as above, possible formalised access to the water?</i>	Priority: <i>Low</i>

Parks Infrastructure/ Maintenance		
Parks operations/ Infrastructure / maintenance	<input type="checkbox"/> Vegetation management /planting <input checked="" type="checkbox"/> Amenity installations (toilets/seats/picnic tables) <input type="checkbox"/> Access roads <input type="checkbox"/> Walking tracks <input type="checkbox"/> Wayfinding /signage/interpretation boards <input type="checkbox"/> Fencing <input type="checkbox"/> Other (specify)	<i>Installation of a large memorial seat with excavation for footing. No sign of damage to archaeology but future works could impact.</i>
Effects of Parks operations; Infrastructure ;maintenance	<input type="checkbox"/> Parks infrastructure and maintenance activities has avoided or improved the condition and/or amenity of the historic heritage in the Local reserve/ Regional Park <input type="checkbox"/> No signs that parks operations have damaged or impacted on the historic heritage in the local/reserve/ Regional Park <input checked="" type="checkbox"/> Park Operations/ infrastructure/maintenance activities has caused limited, localised damage to Historic heritage/ place (or area) <input type="checkbox"/> Park Operations/ infrastructure/maintenance activities Management work undertaken that has caused widespread damage or destroyed Historic heritage place (or area)	
Can threat be minimised? Yes No	If so how?	Priority:

Management Threats		
Management	<input type="checkbox"/> Repairs <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> General upkeep <input type="checkbox"/> Other (specify)	
Effects of Management	<input type="checkbox"/> Restoration work visible that has improved the condition and integrity of the place or area <input checked="" type="checkbox"/> No management impact visible <input type="checkbox"/> Management work undertaken that has caused limited, localised damage to the place or area <input type="checkbox"/> Management work undertaken that has caused widespread damage or destroyed place or area	
Can threat be minimised? Yes No	If so how?	Priority:

Monitoring / Management Recommendations		
Recommended level of intervention	<input checked="" type="checkbox"/> Non-intervention (Monitoring and protection only) <input type="checkbox"/> Maintenance (maintain at present condition) <input type="checkbox"/> Stabilisation (to slow deterioration) <input type="checkbox"/> Repair <input type="checkbox"/> Restoration Reconstruction	
Recommended management needs/actions	1. <i>Erosion control of headland</i>	Priority (High, Medium, Low) <input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low
	2.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	3.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	4.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Recommended time frame for monitoring: <i>Annual</i>		
Reasons for recommended time frame: <i>Low risk of adverse effects</i>		

Have management actions been undertaken as recommended by previous visit?	Yes/ No
Have any resource consent applications concerning place or area been actioned since last visit ?	Yes/ No
Information entered and processed?	Yes/ No
Date of next visit:	

ORAKEI BASIN BASE-LINE MONITORING FORM

CHI Number:	NZAA Site Number: <i>R11/2343</i>
Name of place or area:	Type of place or area: <i>Shell Midden</i>
Location of place or area: <i>Macpherson Street Reserve</i>	Grid Ref: Easting <i>1762181</i> Northing <i>5918192</i>
Aids to relocation of site: <i>See site record form</i>	
Description of historic heritage resource: <i>Surface scatter of shell midden. Not in situ. Primary deposit could not be relocated. Midden deposit likely exposed by ground disturbance in area, including drainage, vegetation management, track installation, and construction of a stairway. Underlying substrate is very soft loamy silt with little compaction and stability. Site is much compromised, largely destroyed and out of context. Likely very few management recommendations possible for largely destroyed site</i>	
Size of site: <i>2m x 2m</i>	
Special features of place or area:	

Contextual Information		
Name of fieldworker/s: <i>JM RR</i>		Date of visit: <i>16/03/2018</i>
Organisation: <i>Auckland Council</i>		Weather: <i>Clear</i>
Site visibility: <i>Good</i>		Site access: <i>Public reserve</i>
Land owner:		Owner contact information:
State / Condition		
Indicator	(Tick appropriate box)	Notes
Current land use/use of place or area	<input type="checkbox"/> Active Coastal Zone <input type="checkbox"/> Agricultural <input type="checkbox"/> Bush cover <input type="checkbox"/> Commercial <input type="checkbox"/> Cultivation <input type="checkbox"/> Farming /Grazing <input type="checkbox"/> Industrial <input type="checkbox"/> Memorial <input type="checkbox"/> Not used or occupied <input type="checkbox"/> Production forestry <input checked="" type="checkbox"/> Recreational (Reserve or other protected public land) <input type="checkbox"/> Residential <input type="checkbox"/> Transport/Communication <input type="checkbox"/> Under development <input type="checkbox"/> Urban <input type="checkbox"/> Other (specify)	
Current land use adjacent to place or area	<input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <input type="checkbox"/> No adjacent places and areas	Specify any differences <i>Residential</i>
Type of vegetation cover surrounding place or area	<input type="checkbox"/> Pasture <input checked="" type="checkbox"/> Predominantly exotic weed or scrubland <input checked="" type="checkbox"/> Exotic or indigenous forest <input type="checkbox"/> Non-vegetated <input type="checkbox"/> Other (specify)	<i>Mix of vegetation cover. Scrub, and mature trees</i>
Integrity of site:	<input type="checkbox"/> None or very few signs of loss or modification <input type="checkbox"/> Small areas or partial loss or modification <input type="checkbox"/> Large but localised areas of loss or modification <input checked="" type="checkbox"/> Site/area almost completely or completely destroyed	Specify areas and types of disruption: <i>Site has been largely destroyed. No in situ deposits were observed.</i>
Fencing (if relevant)	<input type="checkbox"/> Secure, intact fencing around heritage resource <input type="checkbox"/> Most of place or area fenced, but some small, recent breaks <input type="checkbox"/> Some fencing poorly maintained with large breaks <input checked="" type="checkbox"/> No fencing	
Rate of deterioration	<input type="checkbox"/> None apparent <input type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	<i>Most damage already done – no way to figure out rate</i>
Condition	<input type="checkbox"/> Good <input type="checkbox"/> Average <input checked="" type="checkbox"/> Poor <input type="checkbox"/> Unknown	<i>Site largely destroyed</i>

Site Pressures/Threats		
Indicator	Estimate (Tick appropriate box)	Notes (location of damage, particular species etc)
Primary threat	<input type="checkbox"/> No immediate threat <input checked="" type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure/ maintenance <input type="checkbox"/> Other (Specify)	<i>Weak unconsolidated substrate has exposed midden material, potentially destroyed primary deposit.</i>
Secondary and potential threats	<input type="checkbox"/> No immediate threat <input type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input checked="" type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Management/Maintenance <input checked="" type="checkbox"/> Parks Infrastructure / maintenance <input type="checkbox"/> Other (Specify)	

Description of Threats

Vegetation

Issue	<input checked="" type="checkbox"/> Root invasion <input checked="" type="checkbox"/> Tree fall <input type="checkbox"/> Vegetation cover <input type="checkbox"/> Other (specify)	<i>Extensive vegetation cover of exotic (mostly weed) species. Roots have grown through and exposed midden material. Attempts at clearance have damaged the site.</i>
Extent of vegetation cover over place or area	<input type="checkbox"/> Vegetation absent or very uncommon (<10% of place or area) <input type="checkbox"/> Vegetation over 10-20% of place or area <input type="checkbox"/> Vegetation over 20-50% of place or area <input checked="" type="checkbox"/> Abundant vegetation over 50% or more of place or area	Specify whether native or exotic species
Can threat be minimised? Yes No	If so how?	Priority:

Erosion

Type	<input type="checkbox"/> Coastal <input type="checkbox"/> Fluvial <input type="checkbox"/> Wind <input type="checkbox"/> Siltation <input type="checkbox"/> Rain <input type="checkbox"/> Mass movement <input checked="" type="checkbox"/> Subsidence <input type="checkbox"/> On-going deterioration <input type="checkbox"/> Other (specify)	<i>The weak unconsolidated substrate has exacerbated usual erosion problems, causing undercutting and exposure of archaeological material and potentially destroying the primary deposit of archaeological material</i>
Effects of erosion or subsidence	<input type="checkbox"/> No signs of erosion <input type="checkbox"/> Occasional signs of erosion (<20% of area) <input checked="" type="checkbox"/> Common signs of erosion (10-50% of area) <input type="checkbox"/> Abundant signs of erosion (>50% of area)	
Can threat be minimised? Yes No	If so how? <i>Slope stabilisation works – may further impact site</i>	Priority: <i>Low</i>

Natural Disasters		
	<input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Earthquake <input type="checkbox"/> Lighting <input type="checkbox"/> Other (specify)	
Disasters	<input checked="" type="checkbox"/> No sign of any fire, landslide, earthquake or other disaster <input type="checkbox"/> Fire, landslide, earthquake or disaster occurred since last visit on place or area, but no damage <input type="checkbox"/> Limited or localised damage on place or area from fire, landslide, earthquake or other disaster since last visit <input type="checkbox"/> Severe or widespread damage on place or area from fire, landslide, earthquake or other disaster since last damage	
Can threat be minimised? Yes No	If so how?	Priority:

Development		
Development	<input type="checkbox"/> Subdivision <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Transport/Communication <input checked="" type="checkbox"/> Public works <input type="checkbox"/> Other (specify)	<i>Installation of drainage, concrete walking tracks, and wooden stairwells through area of midden.</i>
Effects of Development	<input type="checkbox"/> No signs of draining, roading or other development activities <input type="checkbox"/> Occasional, localised signs of draining, roading or other development activities <input checked="" type="checkbox"/> Common signs of draining, roading or other development activities, but limited to certain areas <input type="checkbox"/> Widespread signs of draining, roading or other development activities throughout the area.	
Can threat be minimised? Yes No	If so how? <i>Careful siting of future works</i>	Priority: <i>High</i>

Visitor Impacts		
Visitors	<input type="checkbox"/> Trampling <input type="checkbox"/> Vandalism <input type="checkbox"/> Fossicking <input checked="" type="checkbox"/> Rubbish <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> Graffiti <input type="checkbox"/> Other (specify)	<i>Rubbish dumping in public reserve, obscuring site and exacerbating damage</i>
Effects of Visitor s	<input type="checkbox"/> No signs of visitor impact upon place or area <input checked="" type="checkbox"/> Occasional localised signs of trampling, vehicular damage, rubbish fossicking or other visitor impact <input type="checkbox"/> Common signs of trampling, vehicular damage, rubbish, fossicking or other visitor impact, but limited to certain areas <input type="checkbox"/> Abundant signs of trampling, vehicular damage, rubbish, fossicking or visitor damage	
Can threat be minimised? Yes No	If so how? <i>Reserve clean up</i>	Priority: <i>Low</i>

Parks Infrastructure/ Maintenance		
Parks operations/ Infrastructure / maintenance	<input checked="" type="checkbox"/> Vegetation management /planting <input type="checkbox"/> Amenity installations (toilets/seats/picnic tables) <input type="checkbox"/> Access roads <input checked="" type="checkbox"/> Walking tracks <input type="checkbox"/> Wayfinding /signage/interpretation boards <input type="checkbox"/> Fencing <input type="checkbox"/> Other (specify)	<i>Installation of drainage, concrete walking tracks, and wooden stairwells through area of midden.</i> <i>Extensive vegetation cover of exotic (mostly weed) species. Roots have grown through and exposed midden material. Attempts at clearance have damaged the site.</i>
Effects of Parks operations; Infrastructure ;maintenance	<input type="checkbox"/> Parks infrastructure and maintenance activities has avoided or improved the condition and/or amenity of the historic heritage in the Local reserve/ Regional Park <input type="checkbox"/> No signs that parks operations have damaged or impacted on the historic heritage in the local/reserve/ Regional Park <input checked="" type="checkbox"/> Park Operations/ infrastructure/maintenance activities has caused limited, localised damage to Historic heritage/ place (or area) <input type="checkbox"/> Park Operations/ infrastructure/maintenance activities Management work undertaken that has caused widespread damage or destroyed Historic heritage place (or area)	
Can threat be minimised? Yes No	If so how? <i>Careful siting of future works</i> <i>Minimal intervention vegetation works</i>	Priority: <i>High</i>

Management Threats		
Management	<input type="checkbox"/> Repairs <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> General upkeep <input type="checkbox"/> Other (specify)	
Effects of Management	<input type="checkbox"/> Restoration work visible that has improved the condition and integrity of the place or area <input checked="" type="checkbox"/> No management impact visible <input type="checkbox"/> Management work undertaken that has caused limited, localised damage to the place or area <input type="checkbox"/> Management work undertaken that has caused widespread damage or destroyed place or area	
Can threat be minimised? Yes No	If so how?	Priority:

Monitoring / Management Recommendations		
Recommended level of intervention	<input checked="" type="checkbox"/> Non-intervention (Monitoring and protection only) <input type="checkbox"/> Maintenance (maintain at present condition) <input type="checkbox"/> Stabilisation (to slow deterioration) <input type="checkbox"/> Repair <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	
Recommended management needs/actions	1. <i>Careful siting of any future parks works</i>	Priority (High, Medium, Low) <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	2.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	3.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	4.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Recommended time frame for monitoring: <i>Annual</i>		
Reasons for recommended time frame: <i>Site largely destroyed already. Minimal management recommendations possible.</i>		

Have management actions been undertaken as recommended by previous visit?	Yes/ No
Have any resource consent applications concerning place or area been actioned since last visit ?	Yes/ No
Information entered and processed?	Yes/ No
Date of next visit:	

ORAKEI BASIN BASE-LINE MONITORING FORM

CHI Number: 19496	NZAA Site Number: R11/2536
Name of place or area:	Type of place or area: <i>Shell Midden</i>
Location of place or area: <i>Macpherson Street Reserve (rail line end)</i>	Grid Ref: Easting 1762132 Northing 5918450
Aids to relocation of site: <i>See site record form</i>	
Description of historic heritage resource: <i>Shell midden exposed in section, eroding at the top of a scarp above the railway line. Inaccessible behind safety fence to rail corridor though some secondary deposits are exposed in fill around the primary deposit</i>	
Size of site: <i>3m long</i>	
Special features of place or area:	

Contextual Information		
Name of fieldworker/s: JM RR		Date of visit: 16/03/2018
Organisation: Auckland Council		Weather: Clear
Site visibility: Good		Site access: Public reserve
Land owner:		Owner contact information:
State / Condition		
Indicator	(Tick appropriate box)	Notes
Current land use/use of place or area	<input type="checkbox"/> Active Coastal Zone <input type="checkbox"/> Agricultural <input type="checkbox"/> Bush cover <input type="checkbox"/> Commercial <input type="checkbox"/> Cultivation <input type="checkbox"/> Farming /Grazing <input type="checkbox"/> Industrial <input type="checkbox"/> Memorial <input type="checkbox"/> Not used or occupied <input type="checkbox"/> Production forestry <input type="checkbox"/> Recreational (Reserve or other protected public land) <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Transport/Communication <input type="checkbox"/> Under development <input type="checkbox"/> Urban <input type="checkbox"/> Other (specify)	Rail corridor
Current land use adjacent to place or area	<input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <input type="checkbox"/> No adjacent places and areas	Specify any differences Reserve/Walkway
Type of vegetation cover surrounding place or area	<input checked="" type="checkbox"/> Pasture <input type="checkbox"/> Predominantly exotic weed or scrubland <input type="checkbox"/> Exotic or indigenous forest <input type="checkbox"/> Non-vegetated <input type="checkbox"/> Other (specify)	Overgrown kikuyu
Integrity of site:	<input type="checkbox"/> None or very few signs of loss or modification <input checked="" type="checkbox"/> Small areas or partial loss or modification <input type="checkbox"/> Large but localised areas of loss or modification <input type="checkbox"/> Site/area almost completely or completely destroyed	Specify areas and types of disruption: Site has been cut by the railway corridor. Unclear how much is remaining subsurface due to ground cover
Fencing (if relevant)	<input checked="" type="checkbox"/> Secure, intact fencing around heritage resource <input type="checkbox"/> Most of place or area fenced, but some small, recent breaks <input type="checkbox"/> Some fencing poorly maintained with large breaks <input type="checkbox"/> No fencing	Railway corridor is fenced restricting access to site
Rate of deterioration	<input type="checkbox"/> None apparent <input type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	Most damage already done – no way to figure out rate
Condition	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Average <input type="checkbox"/> Poor <input type="checkbox"/> Unknown	Site damaged, unclear the extent of surviving archaeology

Site Pressures/Threats		
Indicator	Estimate (Tick appropriate box)	Notes (location of damage, particular species etc)
Primary threat	<input type="checkbox"/> No immediate threat <input type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure/ maintenance <input type="checkbox"/> Other (Specify)	Site disturbed by the installation of fencing and other ground disturbance in the area, including excavation for potential services (?) and walking tracks/concrete paths
Secondary and potential threats	<input type="checkbox"/> No immediate threat <input checked="" type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure / maintenance <input type="checkbox"/> Other (Specify)	Site exposed, ongoing erosion an issue

Description of Threats

Vegetation		
Issue	<input type="checkbox"/> Root invasion <input type="checkbox"/> Tree fall <input type="checkbox"/> Vegetation cover <input type="checkbox"/> Other (specify)	
Extent of vegetation cover over place or area	<input type="checkbox"/> Vegetation absent or very uncommon (<10% of place or area) <input type="checkbox"/> Vegetation over 10-20% of place or area <input type="checkbox"/> Vegetation over 20-50% of place or area <input type="checkbox"/> Abundant vegetation over 50% or more of place or area	Specify whether native or exotic species
Can threat be minimised? Yes No	If so how?	Priority:

Erosion

Type	<input type="checkbox"/> Coastal <input type="checkbox"/> Fluvial <input type="checkbox"/> Wind <input type="checkbox"/> Siltation <input type="checkbox"/> Rain <input type="checkbox"/> Mass movement <input type="checkbox"/> Subsidence <input checked="" type="checkbox"/> On-going deterioration <input type="checkbox"/> Other (specify)	Site already cut by rail corridor, ongoing erosion due to destabilisation
Effects of erosion or subsidence	<input type="checkbox"/> No signs of erosion <input checked="" type="checkbox"/> Occasional signs of erosion (<20% of area) <input type="checkbox"/> Common signs of erosion (10-50% of area) <input type="checkbox"/> Abundant signs of erosion (>50% of area)	
Can threat be minimised? Yes No	If so how? Slope stabilisation works – may further impact site	Priority: Low

Natural Disasters		
	<input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Earthquake <input type="checkbox"/> Lighting <input type="checkbox"/> Other (specify)	
Disasters	<input checked="" type="checkbox"/> No sign of any fire, landslide, earthquake or other disaster <input type="checkbox"/> Fire, landslide, earthquake or disaster occurred since last visit on place or area, but no damage <input type="checkbox"/> Limited or localised damage on place or area from fire, landslide, earthquake or other disaster since last visit <input type="checkbox"/> Severe or widespread damage on place or area from fire, landslide, earthquake or other disaster since last damage	
Can threat be minimised? Yes No	If so how?	Priority:

Development		
Development	<input type="checkbox"/> Subdivision <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input checked="" type="checkbox"/> Transport/Communication <input checked="" type="checkbox"/> Public works <input type="checkbox"/> Other (specify)	<i>Railway line cut through midden, in addition to installation of services, concrete walkways and tracks</i>
Effects of Development	<input type="checkbox"/> No signs of draining, roading or other development activities <input type="checkbox"/> Occasional, localised signs of draining, roading or other development activities <input checked="" type="checkbox"/> Common signs of draining, roading or other development activities, but limited to certain areas <input type="checkbox"/> Widespread signs of draining, roading or other development activities throughout the area.	
Can threat be minimised? Yes No	If so how? <i>Careful siting of future works</i>	Priority: <i>High</i>

Visitor Impacts		
Visitors	<input type="checkbox"/> Trampling <input type="checkbox"/> Vandalism <input type="checkbox"/> Fossicking <input type="checkbox"/> Rubbish <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> Graffiti <input type="checkbox"/> Other (specify)	
Effects of Visitor s	<input type="checkbox"/> No signs of visitor impact upon place or area <input type="checkbox"/> Occasional localised signs of trampling, vehicular damage, rubbish fossicking or other visitor impact <input type="checkbox"/> Common signs of trampling, vehicular damage, rubbish, fossicking or other visitor impact, but limited to certain areas <input type="checkbox"/> Abundant signs of trampling, vehicular damage, rubbish, fossicking or visitor damage	
Can threat be minimised? Yes No	If so how?	Priority:

Parks Infrastructure/ Maintenance		
Parks operations/ Infrastructure / maintenance	<input type="checkbox"/> Vegetation management /planting <input type="checkbox"/> Amenity installations (toilets/seats/picnic tables) <input type="checkbox"/> Access roads <input checked="" type="checkbox"/> Walking tracks <input type="checkbox"/> Wayfinding /signage/interpretation boards <input checked="" type="checkbox"/> Fencing <input type="checkbox"/> Other (specify)	<i>Concrete walkway and fencing installation likely damaged site</i>
Effects of Parks operations; Infrastructure ;maintenance	<input type="checkbox"/> Parks infrastructure and maintenance activities has avoided or improved the condition and/or amenity of the historic heritage in the Local reserve/ Regional Park <input type="checkbox"/> No signs that parks operations have damaged or impacted on the historic heritage in the local/reserve/ Regional Park <input checked="" type="checkbox"/> Park Operations/ infrastructure/maintenance activities has caused limited, localised damage to Historic heritage/ place (or area) <input type="checkbox"/> Park Operations/ infrastructure/maintenance activities Management work undertaken that has caused widespread damage or destroyed Historic heritage place (or area)	
Can threat be minimised? Yes No	If so how? <i>Careful siting of future works</i>	Priority: <i>High</i>

Management Threats		
Management	<input type="checkbox"/> Repairs <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> General upkeep <input type="checkbox"/> Other (specify)	
Effects of Management	<input type="checkbox"/> Restoration work visible that has improved the condition and integrity of the place or area <input checked="" type="checkbox"/> No management impact visible <input type="checkbox"/> Management work undertaken that has caused limited, localised damage to the place or area <input type="checkbox"/> Management work undertaken that has caused widespread damage or destroyed place or area	
Can threat be minimised? Yes No	If so how?	Priority:

Monitoring / Management Recommendations		
Recommended level of intervention	<input checked="" type="checkbox"/> Non-intervention (Monitoring and protection only) <input type="checkbox"/> Maintenance (maintain at present condition) <input type="checkbox"/> Stabilisation (to slow deterioration) <input type="checkbox"/> Repair <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	
Recommended management needs/actions	1. <i>Careful siting of any future parks works</i>	Priority (High, Medium, Low) <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	2.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	3.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	4.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Recommended time frame for monitoring: <i>Annual</i>		
Reasons for recommended time frame: <i>Site damaged but secure and inaccessible. Minimal management recommendations possible.</i>		

Have management actions been undertaken as recommended by previous visit?	Yes/ No
Have any resource consent applications concerning place or area been actioned since last visit ?	Yes/ No
Information entered and processed?	Yes/ No
Date of next visit:	

ORAKEI BASIN BASE-LINE MONITORING FORM

CHI Number: 19494	NZAA Site Number: R11/2538
Name of place or area:	Type of place or area: <i>Shell Midden</i>
Location of place or area: <i>Orakei Basin East Reserve access from Lucerne Road</i>	Grid Ref: Easting 17621944 Northing 5918129
Aids to relocation of site: <i>See site record form</i>	
Description of historic heritage resource: <i>Remnant shell midden mostly destroyed by installation of retaining walls and slope stabilisation works. Only remains are a very sparse scatter of shell in fill behind recently constructed retaining walls.</i>	
Size of site: <i>c. 2m</i>	
Special features of place or area:	

Contextual Information		
Name of fieldworker/s: JM RR		Date of visit: 16/03/2018
Organisation: Auckland Council		Weather: Clear
Site visibility: Good		Site access: Public reserve
Land owner:		Owner contact information:
State / Condition		
Indicator	(Tick appropriate box)	Notes
Current land use/use of place or area	<input type="checkbox"/> Active Coastal Zone <input type="checkbox"/> Agricultural <input type="checkbox"/> Bush cover <input type="checkbox"/> Commercial <input type="checkbox"/> Cultivation <input type="checkbox"/> Farming /Grazing <input type="checkbox"/> Industrial <input type="checkbox"/> Memorial <input type="checkbox"/> Not used or occupied <input type="checkbox"/> Production forestry <input checked="" type="checkbox"/> Recreational (Reserve or other protected public land) <input type="checkbox"/> Residential <input type="checkbox"/> Transport/Communication <input type="checkbox"/> Under development <input type="checkbox"/> Urban <input type="checkbox"/> Other (specify)	
Current land use adjacent to place or area	<input checked="" type="checkbox"/> Same <input type="checkbox"/> Different <input type="checkbox"/> No adjacent places and areas	Specify any differences
Type of vegetation cover surrounding place or area	<input type="checkbox"/> Pasture <input checked="" type="checkbox"/> Predominantly exotic weed or scrubland <input checked="" type="checkbox"/> Exotic or indigenous forest <input type="checkbox"/> Non-vegetated <input type="checkbox"/> Other (specify)	Mixed vegetation, scrub and mature trees
Integrity of site:	<input type="checkbox"/> None or very few signs of loss or modification <input type="checkbox"/> Small areas or partial loss or modification <input type="checkbox"/> Large but localised areas of loss or modification <input checked="" type="checkbox"/> Site/area almost completely or completely destroyed	Specify areas and types of disruption: <i>Site basically destroyed by slope remediation works. No in situ deposits found.</i>
Fencing (if relevant)	<input checked="" type="checkbox"/> Secure, intact fencing around heritage resource <input type="checkbox"/> Most of place or area fenced, but some small, recent breaks <input type="checkbox"/> Some fencing poorly maintained with large breaks <input type="checkbox"/> No fencing	Railway corridor is fenced restricting access to site
Rate of deterioration	<input type="checkbox"/> None apparent <input type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	Most damage already done – no way to figure out rate
Condition	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Average <input checked="" type="checkbox"/> Poor <input type="checkbox"/> Unknown	Site badly damaged, unclear the extent of surviving archaeology

Site Pressures/Threats		
Indicator	Estimate (Tick appropriate box)	Notes (location of damage, particular species etc)
Primary threat	<input type="checkbox"/> No immediate threat <input type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input checked="" type="checkbox"/> Parks Infrastructure/ maintenance <input type="checkbox"/> Other (Specify)	<i>Site basically destroyed by slope remediation works</i>
Secondary and potential threats	<input type="checkbox"/> No immediate threat <input checked="" type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure / maintenance <input type="checkbox"/> Other (Specify)	<i>Site exposed, ongoing erosion an issue Vegetation management has impacted the underlying archaeology</i>
Description of Threats		
Vegetation		
Issue	<input type="checkbox"/> Root invasion <input type="checkbox"/> Tree fall <input type="checkbox"/> Vegetation cover <input checked="" type="checkbox"/> Other (specify)	<i>Vegetation management has impacted underlying archaeology</i>
Extent of vegetation cover over place or area	<input type="checkbox"/> Vegetation absent or very uncommon (<10% of place or area) <input type="checkbox"/> Vegetation over 10-20% of place or area <input type="checkbox"/> Vegetation over 20-50% of place or area <input checked="" type="checkbox"/> Abundant vegetation over 50% or more of place or area	Specify whether native or exotic species
Can threat be minimised? Yes No	If so how?	Priority:

Erosion		
Type	<input type="checkbox"/> Coastal <input type="checkbox"/> Fluvial <input type="checkbox"/> Wind <input type="checkbox"/> Siltation <input type="checkbox"/> Rain <input type="checkbox"/> Mass movement <input type="checkbox"/> Subsidence <input checked="" type="checkbox"/> On-going deterioration <input type="checkbox"/> Other (specify)	<i>Site already largely destroyed. Unstable substrate. Any in situ deposits are undergoing continual erosion</i>
Effects of erosion or subsidence	<input type="checkbox"/> No signs of erosion <input type="checkbox"/> Occasional signs of erosion (<20% of area) <input type="checkbox"/> Common signs of erosion (10-50% of area) <input checked="" type="checkbox"/> Abundant signs of erosion (>50% of area)	
Can threat be minimised? Yes No	If so how?	Priority:

Natural Disasters		
	<input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Earthquake <input type="checkbox"/> Lighting <input type="checkbox"/> Other (specify)	
Disasters	<input checked="" type="checkbox"/> No sign of any fire, landslide, earthquake or other disaster <input type="checkbox"/> Fire, landslide, earthquake or disaster occurred since last visit on place or area, but no damage <input type="checkbox"/> Limited or localised damage on place or area from fire, landslide, earthquake or other disaster since last visit <input type="checkbox"/> Severe or widespread damage on place or area from fire, landslide, earthquake or other disaster since last damage	
Can threat be minimised? Yes No	If so how?	Priority:

Development		
Development	<input type="checkbox"/> Subdivision <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Transport/Communication <input checked="" type="checkbox"/> Public works <input type="checkbox"/> Other (specify)	<i>Slope stabilisation/remediation works, including retaining walls and geotech cloth installation have badly damaged the site</i>
Effects of Development	<input type="checkbox"/> No signs of draining, roading or other development activities <input type="checkbox"/> Occasional, localised signs of draining, roading or other development activities <input type="checkbox"/> Common signs of draining, roading or other development activities, but limited to certain areas <input checked="" type="checkbox"/> Widespread signs of draining, roading or other development activities throughout the area.	
Can threat be minimised? Yes No	If so how?	Priority: <i>High</i>

Visitor Impacts		
Visitors	<input type="checkbox"/> Trampling <input type="checkbox"/> Vandalism <input type="checkbox"/> Fossicking <input type="checkbox"/> Rubbish <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> Graffiti <input type="checkbox"/> Other (specify)	
Effects of Visitor s	<input type="checkbox"/> No signs of visitor impact upon place or area <input type="checkbox"/> Occasional localised signs of trampling, vehicular damage, rubbish fossicking or other visitor impact <input type="checkbox"/> Common signs of trampling, vehicular damage, rubbish, fossicking or other visitor impact, but limited to certain areas <input type="checkbox"/> Abundant signs of trampling, vehicular damage, rubbish, fossicking or visitor damage	
Can threat be minimised? Yes No	If so how?	Priority:

Parks Infrastructure/ Maintenance		
Parks operations/ Infrastructure / maintenance	<input type="checkbox"/> Vegetation management /planting <input type="checkbox"/> Amenity installations (toilets/seats/picnic tables) <input type="checkbox"/> Access roads <input checked="" type="checkbox"/> Walking tracks <input type="checkbox"/> Wayfinding /signage/interpretation boards <input type="checkbox"/> Fencing <input type="checkbox"/> Other (specify)	<i>Slope stabilisation/remediation works, including retaining walls and geotech clot installation have badly damaged the site</i>
Effects of Parks operations; Infrastructure ;maintenance	<input type="checkbox"/> Parks infrastructure and maintenance activities has avoided or improved the condition and/or amenity of the historic heritage in the Local reserve/ Regional Park <input type="checkbox"/> No signs that parks operations have damaged or impacted on the historic heritage in the local/reserve/ Regional Park <input type="checkbox"/> Park Operations/ infrastructure/maintenance activities has caused limited, localised damage to Historic heritage/ place (or area) <input checked="" type="checkbox"/> Park Operations/ infrastructure/maintenance activities Management work undertaken that has caused widespread damage or destroyed Historic heritage place (or area)	
Can threat be minimised? Yes No	If so how?	Priority:

Management Threats		
Management	<input type="checkbox"/> Repairs <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> General upkeep <input type="checkbox"/> Other (specify)	
Effects of Management	<input type="checkbox"/> Restoration work visible that has improved the condition and integrity of the place or area <input type="checkbox"/> No management impact visible <input type="checkbox"/> Management work undertaken that has caused limited, localised damage to the place or area <input checked="" type="checkbox"/> Management work undertaken that has caused widespread damage or destroyed place or area	
Can threat be minimised? Yes No	If so how?	Priority:

Monitoring / Management Recommendations		
Recommended level of intervention	<input checked="" type="checkbox"/> Non-intervention (Monitoring and protection only) <input type="checkbox"/> Maintenance (maintain at present condition) <input type="checkbox"/> Stabilisation (to slow deterioration) <input type="checkbox"/> Repair <input type="checkbox"/> Restoration <input type="checkbox"/> Reconstruction	<i>Site essentially destroyed.</i>
Recommended management needs/actions	1.	Priority (High, Medium, Low) <input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	2.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	3.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	4.	<input type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
Recommended time frame for monitoring: <i>Annual</i>		
Reasons for recommended time frame: <i>Site essentially destroyed. No management recommendations possible.</i>		

Have management actions been undertaken as recommended by previous visit?	Yes/ No
Have any resource consent applications concerning place or area been actioned since last visit ?	Yes/ No
Information entered and processed?	Yes/ No
Date of next visit:	

ORAKEI BASIN BASE-LINE MONITORING FORM

CHI Number: 11640	NZAA Site Number: R11/87
Name of place or area: Orakei Pa	Type of place or area: Pa
Location of place or area: 191-215 Orakei Road	Grid Ref: Easting 1761275 Northing 5918584
Aids to relocation of site: <i>See site record form</i>	
Description of historic heritage resource: <i>Largely destroyed/heavily modified ridge pa between Hobson Bay and Orakei Basin. The ridge has been modified with double transverse ditches on the southern and northern approaches and lateral terraces. Large midden deposits are evident. Historically it has been farmed, gardened, and bulldozed.</i>	
Size of site: <i>Perimeter: 1073m Area 31772 sq m</i>	
Special features of place or area:	

Contextual Information		
Name of fieldworker/s: JM RR		Date of visit: 16/03/2018
Organisation: Auckland Council		Weather: Clear
Site visibility: Good		Site access: Public reserve
Land owner:		Owner contact information:
State / Condition		
Indicator	(Tick appropriate box)	Notes
Current land use/use of place or area	<input type="checkbox"/> Active Coastal Zone <input type="checkbox"/> Agricultural <input type="checkbox"/> Bush cover <input type="checkbox"/> Commercial <input type="checkbox"/> Cultivation <input type="checkbox"/> Farming /Grazing <input type="checkbox"/> Industrial <input type="checkbox"/> Memorial <input type="checkbox"/> Not used or occupied <input type="checkbox"/> Production forestry <input checked="" type="checkbox"/> Recreational (Reserve or other protected public land) <input type="checkbox"/> Residential <input type="checkbox"/> Transport/Communication <input type="checkbox"/> Under development <input type="checkbox"/> Urban <input type="checkbox"/> Other (specify)	
Current land use adjacent to place or area	<input type="checkbox"/> Same <input checked="" type="checkbox"/> Different <input type="checkbox"/> No adjacent places and areas	Specify any differences <i>Residential, transport</i>
Type of vegetation cover surrounding place or area	<input checked="" type="checkbox"/> Pasture <input checked="" type="checkbox"/> Predominantly exotic weed or scrubland <input checked="" type="checkbox"/> Exotic or indigenous forest <input type="checkbox"/> Non-vegetated <input type="checkbox"/> Other (specify)	
Integrity of site:	<input type="checkbox"/> None or very few signs of loss or modification <input type="checkbox"/> Small areas or partial loss or modification <input type="checkbox"/> Large but localised areas of loss or modification <input checked="" type="checkbox"/> Site/area almost completely or completely destroyed	Specify areas and types of disruption: <i>Largely historically destroyed however subsurface archaeological features remain</i>
Fencing (if relevant)	<input type="checkbox"/> Secure, intact fencing around heritage resource <input type="checkbox"/> Most of place or area fenced, but some small, recent breaks <input type="checkbox"/> Some fencing poorly maintained with large breaks <input checked="" type="checkbox"/> No fencing	
Rate of deterioration	<input type="checkbox"/> None apparent <input checked="" type="checkbox"/> Slow <input type="checkbox"/> Moderate <input type="checkbox"/> Rapid	
Condition	<input type="checkbox"/> Good <input checked="" type="checkbox"/> Average <input type="checkbox"/> Poor <input type="checkbox"/> Unknown	

Site Pressures/Threats		
Indicator	Estimate (Tick appropriate box)	Notes (location of damage, particular species etc)
Primary threat	<input type="checkbox"/> No immediate threat <input type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input checked="" type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input type="checkbox"/> Vegetation <input checked="" type="checkbox"/> Management/Maintenance <input type="checkbox"/> Parks Infrastructure/ maintenance <input type="checkbox"/> Other (Specify)	Combination of visitor walking tracks accelerating erosion and creating worn tracks, and mowing regime scalping areas and exacerbating erosion and desire-line track development
Secondary and potential threats	<input type="checkbox"/> No immediate threat <input checked="" type="checkbox"/> Erosion <input type="checkbox"/> Disasters <input type="checkbox"/> Development <input type="checkbox"/> Animals <input type="checkbox"/> Visitors <input type="checkbox"/> Farming <input type="checkbox"/> Forestry <input checked="" type="checkbox"/> Vegetation <input type="checkbox"/> Management/Maintenance <input checked="" type="checkbox"/> Parks Infrastructure / maintenance <input type="checkbox"/> Other (Specify)	Erosion on terrace faces and exposed area. Established vegetation, mature trees and scrubland that may disturb subsurface features. Lack of signposting/wayfinding
Description of Threats		
Vegetation		
Issue	<input checked="" type="checkbox"/> Root invasion <input checked="" type="checkbox"/> Tree fall <input checked="" type="checkbox"/> Vegetation cover <input type="checkbox"/> Other (specify)	Mature species and established scrubland that may disturb subsurface features – vegetation obscures features, tree falls may disturb features and deposits
Extent of vegetation cover over place or area	<input type="checkbox"/> Vegetation absent or very uncommon (<10% of place or area) <input type="checkbox"/> Vegetation over 10-20% of place or area <input checked="" type="checkbox"/> Vegetation over 20-50% of place or area <input type="checkbox"/> Abundant vegetation over 50% or more of place or area	Specify whether native or exotic species Mixed
Can threat be minimised? Yes No	If so how? Careful vegetation management around surviving surface features, incl the southern ditches and terraces	Priority: Medium

Erosion		
Type	<input type="checkbox"/> Coastal <input type="checkbox"/> Fluvial <input type="checkbox"/> Wind <input type="checkbox"/> Siltation <input type="checkbox"/> Rain <input type="checkbox"/> Mass movement <input type="checkbox"/> Subsidence <input checked="" type="checkbox"/> On-going deterioration <input type="checkbox"/> Other (specify)	Tracks cut by pedestrian use exposing subsurface archaeological material
Effects of erosion or subsidence	<input type="checkbox"/> No signs of erosion <input checked="" type="checkbox"/> Occasional signs of erosion (<20% of area) <input type="checkbox"/> Common signs of erosion (10-50% of area) <input type="checkbox"/> Abundant signs of erosion (>50% of area)	
Can threat be minimised? Yes No	If so how? Dissolve desire lines through careful track management. Remediate cut tracks or carefully formalise.	Priority: High

Natural Disasters		
	<input type="checkbox"/> Fire <input type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Storm <input type="checkbox"/> Earthquake <input type="checkbox"/> Lighting <input type="checkbox"/> Other (specify)	
Disasters	<input checked="" type="checkbox"/> No sign of any fire, landslide, earthquake or other disaster <input type="checkbox"/> Fire, landslide, earthquake or disaster occurred since last visit on place or area, but no damage <input type="checkbox"/> Limited or localised damage on place or area from fire, landslide, earthquake or other disaster since last visit <input type="checkbox"/> Severe or widespread damage on place or area from fire, landslide, earthquake or other disaster since last damage	
Can threat be minimised? Yes No	If so how?	Priority:

Development		
Development	<input type="checkbox"/> Subdivision <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Transport/Communication <input checked="" type="checkbox"/> Public works <input type="checkbox"/> Other (specify)	<i>Midden deposits related to the pa have been cut by the lower road to the basin. Historic damage.</i>
Effects of Development	<input type="checkbox"/> No signs of draining, roading or other development activities <input checked="" type="checkbox"/> Occasional, localised signs of draining, roading or other development activities <input type="checkbox"/> Common signs of draining, roading or other development activities, but limited to certain areas <input type="checkbox"/> Widespread signs of draining, roading or other development activities throughout the area.	
Can threat be minimised? Yes No	If so how?	Priority:

Visitor Impacts		
Visitors	<input checked="" type="checkbox"/> Trampling <input type="checkbox"/> Vandalism <input type="checkbox"/> Fossicking <input checked="" type="checkbox"/> Rubbish <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input type="checkbox"/> Graffiti <input type="checkbox"/> Other (specify)	<i>Tracks cut through pedestrian use which have exposed some subsurface archaeological material. Some dumping of rubbish</i>
Effects of Visitor s	<input type="checkbox"/> No signs of visitor impact upon place or area <input type="checkbox"/> Occasional localised signs of trampling, vehicular damage, rubbish fossicking or other visitor impact <input type="checkbox"/> Common signs of trampling, vehicular damage, rubbish, fossicking or other visitor impact, but limited to certain areas <input checked="" type="checkbox"/> Abundant signs of trampling, vehicular damage, rubbish, fossicking or visitor damage	
Can threat be minimised? Yes No	If so how? <i>Action 'Erosion' recommendations above. More targeted management by parks staff/contractors</i>	Priority: <i>High</i>

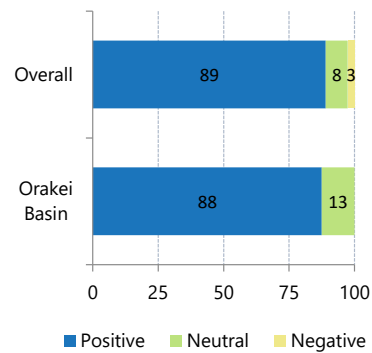
Parks Infrastructure/ Maintenance		
Parks operations/ Infrastructure / maintenance	<input type="checkbox"/> Vegetation management /planting <input type="checkbox"/> Amenity installations (toilets/seats/picnic tables) <input type="checkbox"/> Access roads <input checked="" type="checkbox"/> Walking tracks <input checked="" type="checkbox"/> Wayfinding /signage/interpretation boards <input type="checkbox"/> Fencing <input type="checkbox"/> Other (specify)	<i>No formal tracking cause informal desire line tracks to be cut. Lack of wayfinding signage to disperse foot traffic. No interpretation of pa, history, or significance.</i>
Effects of Parks operations; Infrastructure ;maintenance	<input type="checkbox"/> Parks infrastructure and maintenance activities has avoided or improved the condition and/or amenity of the historic heritage in the Local reserve/ Regional Park <input type="checkbox"/> No signs that parks operations have damaged or impacted on the historic heritage in the local/reserve/ Regional Park <input checked="" type="checkbox"/> Park Operations/ infrastructure/maintenance activities has caused limited, localised damage to Historic heritage/ place (or area) <input type="checkbox"/> Park Operations/ infrastructure/maintenance activities Management work undertaken that has caused widespread damage or destroyed Historic heritage place (or area)	
Can threat be minimised? Yes No	If so how? <i>Action 'Erosion' recommendations above. Installation of information and interpretation signage.</i>	Priority: <i>High</i>

Management Threats		
Management	<input type="checkbox"/> Repairs <input type="checkbox"/> Removal of fabric <input type="checkbox"/> Vehicular <input checked="" type="checkbox"/> General upkeep <input type="checkbox"/> Other (specify)	Scalping of grass surface through mowing increasing erosion and exposing archaeological features.
Effects of Management	<input type="checkbox"/> Restoration work visible that has improved the condition and integrity of the place or area <input type="checkbox"/> No management impact visible <input checked="" type="checkbox"/> Management work undertaken that has caused limited, localised damage to the place or area <input type="checkbox"/> Management work undertaken that has caused widespread damage or destroyed place or area	
Can threat be minimised? Yes No	If so how? More careful mowing regime to avoid scalping and increasing erosion	Priority: Medium

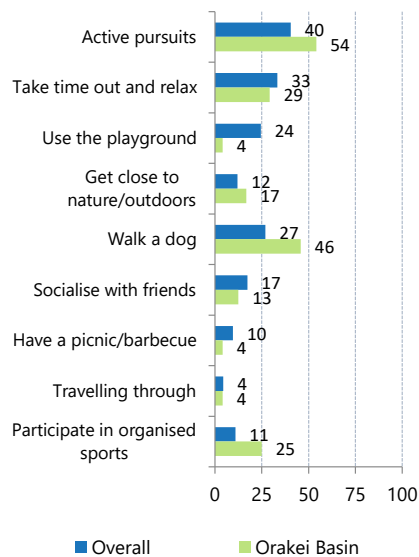
Monitoring / Management Recommendations		
Recommended level of intervention	<input type="checkbox"/> Non-intervention (Monitoring and protection only) <input type="checkbox"/> Maintenance (maintain at present condition) <input checked="" type="checkbox"/> Stabilisation (to slow deterioration) <input type="checkbox"/> Repair <input type="checkbox"/> Restoration Reconstruction	
Recommended management needs/actions	1. Dissolve desire lines through careful track management. Remediate cut tracks or carefully formalise.	Priority (High, Medium, Low) <input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	2. Revise mowing regime to avoid scalping and increasing erosion	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low
	3. Installation of wayfinding, information, and interpretation signage	<input checked="" type="checkbox"/> High <input type="checkbox"/> Medium <input type="checkbox"/> Low
	4. Careful vegetation management around surviving surface features, incl the southern ditches and terraces	<input type="checkbox"/> High <input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low
Recommended time frame for monitoring: 6 monthly		
Reasons for recommended time frame: Ongoing deterioration needs mitigation		

Have management actions been undertaken as recommended by previous visit?	Yes/ No
Have any resource consent applications concerning place or area been actioned since last visit ?	Yes/ No
Information entered and processed?	Yes/ No
Date of next visit:	

VISITOR SATISFACTION



ACTIVITIES UNDERTAKEN



VISITOR PROFILE

ETHNICITY	Park Visitors Overall	Orakei Basin
NZ European/Pakeha	65%	64%
Other European	7%	4%
Maori	9%	24%
Indian	3%	0%
Pacific Peoples	4%	4%
Asian Peoples	13%	12%
MELAA	2%	0%
Other	2%	0%

AGE

Age Group	Park Visitors Overall	Orakei Basin
15-24	10%	8%
25-34	20%	16%
35-44	24%	28%
45-54	22%	24%
55-64	10%	16%
65 and older	13%	8%

HOUSEHOLD INCOME

Income Bracket	Park Visitors Overall	Orakei Basin
\$0-10,000 pa	3%	5%
\$10,001-25,000 pa	5%	0%
\$25,001-50,000 pa	8%	23%
\$50,001-75,000 pa	14%	14%
\$75,001-100,000 pa	19%	27%
\$100,001+ pa	51%	32%

GENDER

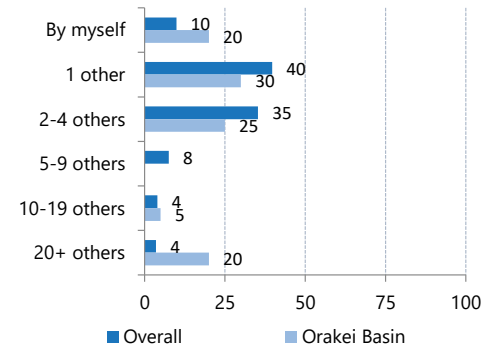
Gender	Park Visitors Overall	Orakei Basin
Male	43%	28%
Female	57%	72%

NUMBER OF RESPONSES

Park Visitors Overall	804
Orakei Basin	25
Orakei Basin Margin of Error +/- 19.6%	

VISITATION PROFILE

NUMBER OF PEOPLE IN PARTY



FREQUENCY OF VISIT

Frequency	Park Visitors Overall	Orakei Basin
Every day	10%	13%
Every 2-3 days	17%	25%
Every 4-5 days	11%	17%
Once a week	22%	17%
Once a fortnight	13%	0%
Once a month	14%	4%
Once every 2-3 mths	6%	8%
Once every 3-6 mths	5%	13%
Never during summer	2%	4%

WINTER

Frequency	Park Visitors Overall	Orakei Basin
Every day	6%	4%
Every 2-3 days	9%	13%
Every 4-5 days	7%	0%
Once a week	14%	8%
Once a fortnight	13%	13%
Once a month	19%	33%
Once every 2-3 mths	9%	4%
Once every 3-6 mths	7%	17%
Never during winter	17%	8%

TRAVEL PROFILE

MODE	Park Visitors Overall	Orakei Basin
Walk	47%	48%
Drive	44%	32%
Equally Drive and walk	5%	12%
Cycle	1%	0%
Public Transport	2%	4%
Other	1%	4%

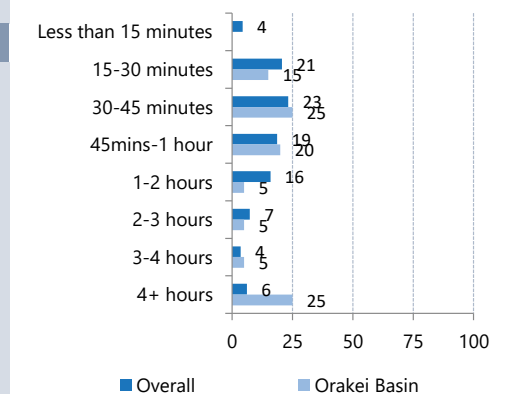
MINUTES TO DRIVE

Duration	Park Visitors Overall	Orakei Basin
1-5 Minutes	28%	11%
6-10 Minutes	23%	22%
11-15 Minutes	12%	11%
16-20 Minutes	17%	22%
21+ Minutes	20%	33%

MINUTES TO WALK

Duration	Park Visitors Overall	Orakei Basin
1-5 Minutes	49%	15%
6-10 Minutes	27%	54%
11-15 Minutes	12%	31%
16-20 Minutes	6%	0%
21+ Minutes	6%	0%

TIME SPENT AT THE PARK



COMMENTS AND SUGGESTIONS

Drainage - winter time.

More rubbish bins.

1. Make all walk ways leash free. We have incurred \$900!! In fines for our dog being caught off the lead at each end of like leash free ends of the path. 2. Extend walk way through to Parnell path. 3. Path is great!!! But drainage needs attention during winter.

Rubbish bins. Lighting up entrance way. Toilets.

Parking which is accessible to the basin.

Permanent toilets.

Toilets.

Very little parking.

More parking.

Toddlers (up to age 5), they need a lot of help to use the fireman's pole, because they haven't got the leg span. A tiny trampoline would allow mum and toddler to bounce on it, and they would love that.

It is very well maintained.

Not really, it is good as it is.