

# **Submission Form 16 to the Otago Regional Council on consent applications**

This is a Submission on (a) limited notified/publicly notified resource consent application/s pursuant to the Resource Management Act 1991.

Sub	mitter	Deta	ils:
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Full Name/s:	Te Rūnanga o Ōtakou				
Postal Address:	c/o Auka	c/o Aukaha (1997) Ltd, PO Box 446, Dunedin 9054.			
			Post Code:	9054	
Phone number:	Busines	s: (03) 4770071	Private:		
	Mobile:				
Email address:	consents	@aukaha.co.nz			
// we wish to <b>SUPF</b> of:	PORT / O	PPOSE / submit a NEUT	RAL submission on (c	ircle one) the application	
Applicant's Name	: Du	nedin City Council			
And/or Organisati	on:				
Application Numb	er: RM	23.185			
Location:	Gre	een Island Lanfill			
Purpose:					
•Discharge Permi contaminants may		arge waste, hazardous w ater.	aste, and leachate to l	and, in a manner that	

- •Water Permit to take and use groundwater, and groundwater as connected surface water.
- •Water Permit to divert stormwater and surface water.
- •Water Permit to permanently divert surface water in Kaikorai Stream and Brighton Road Stream.
- •Discharge Permit to discharge surface water and stormwater to the Kaikorai Stream.
- •Discharge Permit to discharge contaminants (landfill gas, combustion emissions, dust, and odour) to air.
- •Land Use Consent to place a defence against water adjacent to the Kaikorai Stream.
- •Land Use Consent to disturb a contaminated site.

For the purpose of operation, closure, and aftercare of the Green Island Landfill.



The specific parts of the application/s that my submission relates to are: (Give details)

The neutral submission is made to the application in its entirety – refer to the attached Submission.

My/Our submission is (include: whether you support or oppose the application or specific parts of it, whether you are neutral regarding the application or specific parts of it and the reasons for your views).

The neutral submission is made to the application in its entirety – refer to the attached Submission.

I/We seek the following decision from the consent authority (give precise details, including the general nature of any conditions sought)
The neutral submission is made to the application in its entirety – refer to the attached Submission
I/we:  ☑ Wish to be heard in support of our/my submission  □ Not wish to be heard in support of our/my submission
If others make a similar submission, I/we will consider presenting a joint case with them at a hearing ☐ Yes ☐ No
I, and am not (choose one) a trade competitor* of the applicant (for the purposes of Section 308B of the Resource Management Act 1991).
*If trade competitor chosen, please complete the next statement, otherwise leave blank.
I, am/am not (choose one) directly affected by an effect as a result of the proposed activity in the application that:  a) adversely affects the environment; and b) does not relate to trade competition or the effects of trade competition.
I, <b>do do not</b> (choose one) wish to be involved in any pre-hearing meeting that may be held for this application.
I do do not request* that the local authority delegates its functions, powers, and duties to hear and decide the application to 1 or more hearings commissioners who are not members of the local authority.
have not served a copy of my submission on the applicant.
Kati E.
13/12/2024
Signature/s of submitter/s

(or person authorised to sign on behalf of submitter/s)

(Date)



#### Notes to the submitter

If you are making a submission to the Environmental Protection Authority, you should use form 16B.

The closing date for serving submissions on the consent authority is the 20th working day after the date on which public or limited notification is given. If the application is subject to limited notification, the consent authority may adopt an earlier closing date for submissions once the consent authority receives responses from all affected persons.

You must serve a copy of your submission on the applicant as soon as is reasonably practicable after you have served your submission on the consent authority.

**Privacy:** Please note that submissions are public. Your name and submission will be included in papers that are available to the media and the public, including publication on the Council website. Your submission will only be used for the purpose of the notified resource consent process

If you are a trade competitor, your right to make a submission may be limited by the trade competition provisions in Part 11A of the Resource Management Act 1991.

If you make a request under <u>section 100A</u> of the Resource Management Act 1991, you must do so in writing no later than 5 working days after the close of submissions and you may be liable to meet or contribute to the costs of the hearings commissioner or commissioners.

You may not make a request under section 100A of the Resource Management Act 1991 in relation to an application for a coastal permit to carry out an activity that a regional coastal plan describes as a restricted coastal activity.

Please note that your submission (or part of your submission) may be struck out if the authority is satisfied that at least 1 of the following applies to the submission (or part of the submission):

- it is frivolous or vexatious:
- it discloses no reasonable or relevant case:
- it would be an abuse of the hearing process to allow the submission (or the part) to be taken further:
- it contains offensive language:
- it is supported only by material that purports to be independent expert evidence, but has been prepared by a person who is not independent or who does not have sufficient specialised knowledge or skill to give expert advice on the matter.

The address for service for the Consent Authority is:

Otago Regional Council, Private Bag 1954, Dunedin, 9054

**or** by email to <a href="mailto:submissions@orc.govt.nz">submissions@orc.govt.nz</a>



13 December 2023

**Otago Regional Council** 

Private Bag 1954

**Dunedin 9054** 

Tēnā koutou,

Submission on a publicly notified resource consent application RM23.185 for the purpose of the operation, closure, and aftercare of the Green Island Landfill

The application (RM23.185) by Dunedin City Council (the Applicant) is for the following activities at the Green Island Landfill:

- Discharge Permit to discharge waste, hazardous waste, and leachate to land, in a manner that contaminants may enter water.
- Water Permit to take and use groundwater, and groundwater as connected surface water.
- Water Permit to divert stormwater and surface water.
- Water Permit to permanently divert surface water in Kaikorai Stream and Brighton Road Stream.
- Discharge Permit to discharge surface water and stormwater to the Kaikorai Stream.
- Discharge Permit to discharge contaminants (landfill gas, combustion emissions, dust, and odour) to air.
- Land Use Consent to place a defence against water adjacent to the Kaikorai Stream.
- Land Use Consent to disturb a contaminated site.

For the purpose of operation, closure, and aftercare of the Green Island Landfill.

This is a submission on a publicly notified resource consent application pursuant to Section 95A of the Resource Management Act 1991.

Te Rūnanga o Ōtākou <u>neither supports nor opposes</u> this application.

Te Rūnanga o Ōtākou is not a trade competitor for the purposes of section 308B of the Resource Management Act 1991 (RMA).

Te Rūnanga o Ōtākou will confirm whether it wishes to be heard at the hearing once further

information relating to the concerns identified in this submission is received from the Applicant.

#### 1.0 SCOPE OF THE SUBMISSION

1.1 This submission relates to the application by the Dunedin City Council in its entirety.

# 2.0 INTRODUCTION

- 2.1 Te Rūnanga o Ōtākou represents the rakatira and are kaitiaki of natural resources within the area to which this application relates.
- 2.2 The takiwā of Te Rūnanga o Ōtākou centres on Muaūpoko/Otago Peninsula and extends from Purehurehu Point/north of Heyward Point to the Clutha River/Mata-au River. The hapū of Te Rūnanga o Ōtākou are mana whenua for the Kaikarae Stream and Estuary.
- 2.3 Aukaha on behalf of Te Rūnanga o Ōtākou was engaged by the Applicant to prepare a cultural impact assessment (CIA) to support the replacement consents for the operation, closure and aftercare of the Green Island Landfill. The CIA forms part of the publicly notified application (Appendix 16).

# 3.0 RELATIONSHIP WITH THE KAIKARAE STREAM AND ESTUARY

- 3.1 Wāhi tūpuna are interconnected ancestral places, landscapes and taoka that reflect the histories and traditions of mana whenua. Wāhi tūpuna are characterised not only by natural and physical aspects, but also by the place names and associated traditions and events that bind mana whenua to the landscape. The Kaikarae Stream and Estuary is part of an integrated cultural landscape for mana whenua.
- 3.2 Mahika kai practices underpin the Kāi Tahu relationship with Otago's rivers, lakes, wetlands, and estuaries. Cultural identity as whānau and hapū is tied to resources, which are significant taoka. Fundamental to the culture of mana whenua is their ability to learn and practise customary gathering of food and other resources, to put kai on the table at the marae and at home and to ensure that the knowledge of customary practices is passed on from generation to generation.
- 3.3 For mahika kai to be sustained, populations of species must be present across all life stages and must be plentiful enough for long term sustainable harvest. Safe access to mahika kai sites must be available, kai must be safe to gather, safe to harvest and safe to eat and management and harvesting practices must be able to be carried out in

accordance with tikaka.

3.4 The transmission of mātauraka necessitates whānau being able to access healthy mahika kai to carry out customary practices. The restoration of the mauri of Kaikarae estuary to provide healthy habitat for mahika kai and taoka species is a long-term vision for Ōtākou whānau.¹The closure of the Green Island Landfill (GIL) is a significant step towards achieving that vision.

# 4.0 DECISION SOUGHT

- 4.1 Te Rūnanga o Ōtākou neither supports nor opposes the resource consent applications as applied for.
- 4.2 Te Rūnanga o Ōtākou accepts there is a need for continued waste disposal at the GIL until the Smooth Hill Landfill is ready to accept waste and that there is a long-term, ongoing requirement to manage surface water runoff, leachate, and landfill gas once the GIL closes.
- 4.3 Te Rūnanga o Ōtākou submits that the Applicant in collaboration with mana whenua should:
  - a. Investigate the migration of leachate into the Kaikarae Stream and Estuary
  - Investigate the cumulative impacts of leachate on the Kaikarae Stream and
     Estuary; and
  - c. Develop measures to avoid or mitigate the impacts of leachate on the environment.
- 4.4 Te Rūnanga o Ōtākou supports the proposed conditions of consent that implement the recommendations of the cultural impact assessment (refer to Appendix 1 of this submission).

### 5.0 REASON FOR THE DECISION SOUGHT

- The CIA of the closure and aftercare of the GIL includes recommendations to address the cultural impacts of the proposal on wāi māori, mahika kai and biodiversity values, and wāhi tūpuna values.
- 5.2 A key recommendation of the CIA is that all practicable measures are taken to prevent discharges entering water, including preventing, where possible, leachate from

<sup>&</sup>lt;sup>1</sup> Consultation with Ōtākou whānau as part of the development of the Proposed Otago Land and Water Regional Plan. Whānau acknowledged that this was long-term vision given the current degraded state of the estuary.

entering groundwater and surface water. The technical review of the application

suggests that the leachate collection trench may not be preventing leachate from

entering the Kaikarae Stream and Estuary.

5.3 There are three areas of concern:

a. Whether the conceptual site model, which is based on the leachate collection

trench intercepting all leachate before it migrates off - site, is valid;

b. Whether the current and proposed monitoring well network sufficiently covers

the areas of highest risk to groundwater, being the areas down -gradient of the

landfill, and adjacent to the area of high leachate head and historic stream

diversions; and

c. Whether elevated levels of ammoniacal-nitrogen, boron, and zinc (all leachate

indicators) are attributable to natural estuarine conditions, or another source.

5.4 The technical review of the application highlights that "... there are indicators of

some unaccounted-for leachate loss to the receiving environment. Ecotoxicity tests

recorded increased toxicity downstream of the landfill. The ecological assessment

assigned the cause of this to other ecological stressors not associated with the

landfill. This conclusion is likely to be incorrect as old stream channels beneath the

landfill, in conjunction with the leachate trench location, may provide pathways for

unrecognised leachate loss."

5.5 The loss of leachate to the Kaikarae Stream and Estuary would have more than

minor impacts on the mauri of Kaikarae Stream and Estuary and the aspirations of

Te Rūnanga o Ōtākou to provide healthy habitat for mahika kai and taoka species.

E noho ora mai

Address for Service

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# Appendix 1: Implementation of the Recommendations of the Cultural Impact Assessment

1. Recommendations of the Cultural Impact Assessment

#### Wai Māori

- That all practicable measures are taken to prevent discharges entering water, including preventing, where possible, leachate from entering groundwater and surface water.
- The effects on mauri and whakapapa from alteration of the existing hydrology and contaminants entering water are offset by mitigation measures, including riparian planting and pest management. Proposed offsetting or mitigation management plans need to be provided to mana whenua for review and consultation prior to implementation. While these measures do not directly address the adverse effects on mauri, they will contribute to enhancement of the mauri of the area.

Values: Mana, Mauri, Whakapapa, Rakatirataka and Kaitiakitaka, Tapu, Utu, Taoka.

# **Mahika Kai and Biodiversity Values**

The protection of habitats and the wider needs of mahika kai and taoka species is sought by mana whenua, including:

- Indigenous plant and animal communities and the ecological processes that ensure their survival are recognised and protected to restore and improve indigenous biodiversity.
- Creating networks of linked ecosystems.
- Protecting and enhancing wetlands
- Requiring the management of hazardous operations to avoid impacts on mahika kai values.

It is recommended that the Vegetation Management and Restoration Plan is developed in partnership with mana whenua to restore the ecological values of the Kaikarae Estuary, provide habitat for taoka species and rebalance mauri.

Values: Mana, whakapapa, wāhi tūpuna, mauri, utu, mahika kai and taoka

## Wāhi tūpuna

The protection of the values of wāhi tūpuna is sought by mana whenua, including:

- Protecting the full range of landscape features of significance.
- Ensuring that the interpretation of Kāi Tahu histories associated with the Kaikarae Estuary and Pukemakamaka is undertaken by Te Rūnanga o Ōtākou.
- Encouraging the use of traditional place names.
- Requiring site rehabilitation plans for land contaminated by landfills.

It is recommended that a co-design process is undertaken with mana whenua to incorporate mana whenua values and pūrākau associated with the Kaikarae Estuary following closure of the Green Island landfill.

Values: Mana, Whakapapa, Rākaihautu, Matamata, Wāhi Tūpuna, Mauri, Utu, Oraka, Tapu, Tikaka, Tapatapa, Kaika, Ara Hikoi, Ara Tawhito, Mahika Kai, Taoka

2. Proposed Resource Consent Conditions for the Operation, Closure and Aftercare of the Green Island Landfill that implement the Cultural Impact Assessment Recommendations

References to engagement with Te Rūnanga o Ōtākou are highlighted and underlined in <u>purple</u>.

	ions relevant to all consents	
Condition (s)	Landfill Development Management Plan and Landfill Closure Management Plan	
12	The operation of the landfill and waste diversion and transfer facilities must be undertaken in accordance with a Landfill Development Management Plan (LDMP), with the overall objective of setting out details of the practices and procedures to be adopted to achieve compliance with the conditions of resource consent.	
14	The existing Landfill Development Management Plan must be updated in consultation with Te Rūnanga o Ōtākou to achieve the conditions of these resource consents and provided to the Otago Regional Council within 6 months of the issue of these consents to assess it has been prepared by appropriately qualified personnel in accordance with the conditions of consent and in accordance with good practice and certification in accordance with general condition 4.	
15	By 1 July each year the consent holder must, in consultation with Te Rūnanga o Otākou, complete a review of the Landfill Development Management Plan required by general condition 12 to ensure that the management practices contained within them remain adequate to ensure compliance with the conditions of these consents. If amendments are made to a management plan, the amended plan must be submitted to the Otago Regional Council for recertification in accordance with general condition 4.	
16	The closure and aftercare of the landfill must be undertaken in accordance with a Landfill Closure Management Plan (LCMP).	
17	The Landfill Closure Management Plan must be developed by the consent holder in consultation with Te Rūnanga o Ōtākou, with an overall objective of setting out details of the practices and procedures to be adopted to achieve compliance with the conditions of resource consent.	
18	The Landfill Closure Management Plan must address how the following matters will meet any requirements, limits, or restrictions set out by the conditions of these resource consents:	
	a. Long term use of the landfill site, including the incorporation of mana whenua values and pūrākau associated with the Kaikarae Estuary.	
	b. Post closure landfill gas, leachate, groundwater and stormwater management.	
	c. Post closure maintenance of the landfill cap and landscape planting.	
	d. Post closure monitoring procedures, including locations, parameters, and frequency.	
	e. Landfill inspections and maintenance.	
	f. Emergency management and contingency response procedures.	

	Consulainta mana anno anno alumo
	g. Complaints response procedures.
	h. Record-keeping and reporting requirements.
20	Every three years following the final acceptance of waste at the landfill, the
	consent holder must, in consultation with <u>Te Rūnanga o Ōtākou</u> , complete a review of the Landfill Closure Management Plan
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21	The consent holder may make amendments to the Landfill Development
	Management Plan or Landfill Closure Management at any time. Any amendments must be made in consultation with Te Rūnanga o Ōtākou and
	submitted to the Otago Regional Council for recertification.
Condition(s)	Groundwater and Surface Water Monitoring
46	The consent holder must provide the results of all monitoring to the Otago Regional Council:
	a. Within 4 weeks where the nominated guideline values or levels specified in
	general condition 42 are exceeded, except where the exceedance is at
	surface water monitoring sites GI1 and GI2 (which are upstream of the landfill);
	b. Within 4 weeks where any historical maximum recorded for the site
	specified in general condition 43 is exceeded;
	c. Otherwise on request; and
	d. Provide the results of all monitoring and to both Te Rūnanga o Ōtākou, and
	Otago Regional Council as part of the Annual Report required by general
	condition 55.
47	In the event that the monitored contaminant concentrations exceed nominated
	guideline values or levels specified in general condition 42 at surface water sites
	GI3 and GI5, and the contaminant concentrations at those sites also exceed the
	concentrations detected at surface water sites GI1 and GI2 upstream of the landfill, the consent holder must undertake two additional rounds of surface
	water sampling at all surface water sites, no later than 1 week, and no later than
	2 weeks after the initial exceedance and provide the results to ORC.
48	If following completion of the additional two monitoring rounds in condition 47
40	contaminant concentrations continue to exceed the nominated guideline values
	or levels at surface water sites GI3 and GI5, and the concentrations continue to
	be elevated in comparison to the concentrations detected at surface water sites
	GI2 and GI3 upstream of the landfill, the consent holder must undertake an
	investigation into potential causes of the exceedances and prepare a report
	which must be provided to ORC and <u>Te Rūnanga o Ōtākou</u> no later than 1 month
	following receipt of the additional monitoring round results. The report must
	outline likely causes of exceedances, statistical analysis of water quality, actions
	to be taken to prevent further exceedances and proposed follow-up monitoring where necessary.
	<u> </u>
50	Should the results of any monitoring required under general conditions 40 – 48
	indicate adverse effects on water quality directly attributable to landfill leachate from the landfill entering the Kaikorai Stream, the consent holder must initiate
	measures to avoid or mitigate those these effects.
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	Annual Monitoring Report
55.	The consent holder must compile an annual monitoring report on the operation of the landfill, including:
	a. The status of landfill construction, completion of landfilling of any stage, and closure and aftercare activities completed during the preceding year;
	b. Any non-compliance with the conditions of these consents or difficulties in achieving the practices and procedures in the Landfill Development Management Plan or Landfill Closure Management Plan which have arisen in the preceding year and the measures taken to address them;
	c. Any matters raised by the CLG and the consent holder's responses to those matters;
	d. Any emergency management procedures and contingency response procedures specified in the Landfill Development Management Plan or Landfill Closure Management Plan that were implemented during the preceding year;
	e. Landfilling operations and closure and aftercare activities proposed for the next year of the landfill operation; and
	f. Collated summaries and analyses of all monitoring results and other data required under these consents, including:
	<ol> <li>The results obtained for all leachate, groundwater, surface water and leachate pumping system monitoring undertaken. Results shall be supplied in table format within the report, with a copy of all laboratory analytical reports appended.</li> </ol>
	<ul> <li>ii. A description of the dates of monitoring and climatic conditions on those dates, and any other pertinent field observations.</li> </ul>
	iii. Interpretation of all the data, particularly with regard to landfill performance. Trends must be identified and discussed.
	The report must be forwarded to <u>Te Rūnanga o Ōtākou</u> and Otago Regional Council by 1 October each year unless an alternative date is agreed in writing with the Otago Regional Council. The consent holder must make the report publicly available on the Dunedin City Council website.

# **Discharge Permit**

# Discharge of Waste and Leachate to Land Conditions

**Purpose of this consent:** to discharge waste and hazardous waste, and leachate onto land, that may result in contaminants entering groundwater for the purpose of the operation and closure of a Class 1 landfill.

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Condition (s)	Leachate Collection Trench
8	The leachate collection trench must be operated during operation, closure, and aftercare of the landfill to:  a. Maintain a depression in the phreatic (zone of saturation) groundwater level
	surface at all times. The depression of the phreatic surface must be sufficient to cause the trench to intercept phreatic groundwater which would

41.	ordinarily have flowed outward from the trench to adjacent groundwater and the Kaikorai Stream or associated water bodies. The presence of the depression must be determined by measuring the slope of the phreatic groundwater level between the leachate collector trench and the Kaikorai Stream, and the leachate collection trench and the fluid level in the landfill. The slope must be inward, towards the collector trench at all times; and  b. Ensure the effective long-term containment, collection and monitoring of contaminated leachate and to protect the Kaikorai Stream and estuary, coastal waters and the uses and values associated with these waters, including those associated with humans, plants, animals, and aquatic life.  Vegetation Management and Restoration Plan (VMRP) must be prepared by a	
41.		
41.	A Vegetation Management and Restoration Plan (VMRP) must be prepared by a	
	suitably qualified person within 1 year of the granting of this consent. The purpose of the Plan is to manage the health and long-term replacement of the existing screening vegetation on the site, and provision of riparian planting, with the objective of ensuring the landfill and waste minimisation and transfer facilities continue to be integrated into the surrounding landscape, any adverse visual effects are minimised, and enhancement of ecological and cultural values. The Plan must be developed in consultation with Te Rūnanga o Ōtākou. As a minimum the Plan must include:	
	a. A survey of the health of the existing trees.	
	b. Routine monitoring and maintenance of the existing trees to promote their health and long-term stability.	
	<ul> <li>c. Long-term post closure actions for the replacement of the existing trees, incorporating eco-sourced native species to enhance natural character, landscape, and amenity values, and their ongoing maintenance.</li> <li>d. Riparian planting and pest management to support restoration of the ecological values of the Kaikorai Estuary, provision of habitat for taoka</li> </ul>	
	species and rebalancing of mauri.	
	e. A detailed programme of works, including timeframes for implementation.	
	f. Key responsibilities of onsite personnel.	
	g. A review process that includes <u>Te Rūnanga o Ōtākou</u> and Otago Regional Council.	
42.	The Vegetation Management and Restoration Plan must be submitted to the Otago Regional Council to assess that it has been prepared by appropriately qualified personnel in accordance with the conditions of consent and certification in accordance with general condition 4.	
	Bird Management	
43	The consent holder must implement the Southern Black Backed Gull (SBBG) Management Plan, prepared by Avisure, dated November 2023, or any subsequent updated version of the plan, during the operation of the landfill. The purpose of the Plan is to manage Green Island landfill food availability and the breeding success of the existing SBBG population at Dunedin breeding sites where access is available, with the objective of reducing the existing level of bird	

strike risk to aviation prior to the closure of the Green Island landfill. The Plan must be developed in consultation with <u>Te Rūnanga o Ōtākou</u>, the Department of Conservation and Dunedin International Airport Limited. As a minimum the Plan must include:

- a. Outcomes of consultation completed with <u>Te Rūnanga o Ōtākou</u>, the Department of Conservation and Dunedin International Airport Limited;
- A monitoring regime which enables identification of SBBG breeding sites,
   SBBG baseline population characteristics, and how the SBBG population responds to management actions;
- c. Monitoring of other bird species, including red billed gulls, to ensure they present no increased risk to aviation.
- d. Measurable targets for the reduction of the SBBG population;
- e. Description of management actions and methods to be implemented to limit SBBG breeding success at SBBG breeding sites identified under condition 43(b) where access is feasible, and limit landfill food availability at Green Island landfill leading up to its closure;
- f. Procedures for liaison with and sharing of information with <u>Te Rūnanga o</u>
  <u>Ōtākou</u>, the Department of Conservation and Dunedin International Airport
  Limited; and
- g. An adaptive management and review process.

# **Discharge Permit**

Discharge of Landfill Gas, Combustion Emissions from Landfill Gas Flares and Engines, and Dust and Odour and to Air conditions

**Purpose of this consent:** to discharge landfill gas, combustion emissions from landfill gas flares and engines, dust and odour to air for the purpose of the operation and closure of a Class 1 landfill.

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Condition (s)	Landfill gas perimeter and surface monitoring
25	During operation, closure, and aftercare of the landfill, LFG concentrations must be monitored as follows:
	<ul> <li>a. At least monthly at the LFG monitoring wells; and</li> <li>b. At least quarterly at areas of intermediate cover and the surface of the final landfill cap, with such monitoring to be undertaken with a Flame Ionisation Detector or equivalent. Monitoring must not be undertaken immediately following heavy rainfall or during strong wind speed.</li> </ul>
	The results must be reported annually to <u>Te Rūnanga o Ōtākou</u> and Otago Regional Council in accordance with general condition 55 (Annual Monitoring Report).