

Waste Management NZ Limited (now WM New Zealand)
Fairfield Closed Landfill – Renewal of Regional Resource Consents
Proposed Consent Conditions (Appendix 8) (Updated 13 June 2025)

UPDATED PROPOSED CONSENT CONDITIONS:

Since the lodgement of the resource consent application in February 2024, WM New Zealand (WM) have offered a number of amendments to the proposed consent conditions that were provided in Appendix 8 of the application. Also, three additional resource consents have also been sought. These changes / amendments have been in response to the recommendations of the Cultural Impact Assessment and Otago Regional Council's section 91 deferral letter and section 92 request for further information.

Given these changes / amendments, this appendix (**Appendix 8**) of the application has been updated to incorporate the amendments that have been offered by WM. All updates are shown in tracked changes mode (~~striketrough~~ text for deletions and underlined text for additions).

NOTE:

There are number of repeated conditions which are proposed to be attached to all four of the resource consents being sought by Waste Management. It is acknowledged that an alternative approach would be to place these repeated conditions into a schedule which could then be attached to each of the resource consents, along with a condition requiring compliance with the conditions contained in the schedule.

Waste Management are comfortable with either approach.

The land parcel legal descriptions that apply to the broader site and the following resource consents are as follows:

- The **landholding**, as a whole, which is owned by Tartan Industries Limited (a subsidiary of Waste Management Limited) - Lot 2 DP566541 (RT 1021375), Part Lot B DP685 (RT OT8D/1045) and Part Section 41 Block VIII Dunedin & East Taieri Survey District and DP7227 (RT OT352/110).
- The land parcels associated with the Western and Eastern Landfills, or 'the landfill' or 'the landfill site', which are associated with the following resource consents are - Lot 2 DP566541 (RT 1021375) and Part Lot B DP685 (RT OT8D/1045).
- The Western Landfill is located in both Lot 2 DP566541 (RT 1021375) and Part Lot B DP685 (RT OT8D/1045).
- The Eastern Landfill is located solely in Lot 2 DP566541 (RT 1021375).

A. Discharge Permit – Discharges to Air

General

1. The discharge of landfill gas, and associated odour, to air must be carried out in accordance with the plans and all information submitted with the application, detailed below, and all reference by the Consent Authority as consent number [to insert].

a) [References to be inserted].

If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent will prevail.

2. The discharge of odour shall not cause a noxious, dangerous, offensive or objectionable effect beyond the site boundary.

Advice Note: *For the purposes of this consent, whether an odour is objectionable and has, or is, causing an adverse effect is determined by a Council Officer, or delegated Council Officer, having regard to the frequency, intensity, duration, nature, location of the odour, and any previous odour complaints relations to the subject site.*

Landfill Gas Management

3. Until written notice has been provided to the Consent Authority in accordance with Condition 4, the Consent Holder must operate and maintain the gas management system associated with the Eastern Landfill in a manner that ensures that adverse effects on the environment are minimised. The key components of the landfill gas management that must be maintained in accordance with this condition include, but are not limited to:

- a) The landfill cap.
- b) The landfill gas conveyance pipe network.
- c) The landfill gas well/s and flare/s.
- d) Any passive venting system, following the decommissioning of the flare/s, as provided for by Condition 4.

4. The Consent Holder may change to a passive landfill gas management system where the landfill gas at the Eastern Landfill is no longer flared, provided:

- a) A suitably qualified and experienced person must prepare a report which confirms that the criteria, or trigger levels, specified in the AMP for changing to a passive landfill gas management system are met; and
- b) Written notice of the intended change has been given to the Consent Authority, in the form of a report, at least one month prior to changing to a passive landfill gas management system.
- c) The Consent Holder has received written confirmation from the Consent Authority certifying that the proposed change to a passive landfill gas management system is appropriate.

5. The Consent Holder must inspect the landfill site for evidence of uncontrolled landfill gas discharges and maintain a record of the inspections that have been carried out. The inspections are to be carried out in conjunction with the monitoring, required by Conditions 9 to 2, at the following frequency:

- a) While flaring of the landfill gas is occurring, at least monthly;
- b) Thereafter, at least quarterly.

Where evidence of uncontrolled landfill gas discharges is identified during these inspections, the Consent Holder must register the discharge as an incident in the Complaints and Incidents Register in accordance with Condition 13.

The Consent Holder must also investigate and then implement actions, in a timely manner, that remedies or mitigates the uncontrolled landfill gas discharge. These actions and outcomes must be recorded in the Complaints and Incidents Register required by Condition 13.

Advice Note: *Evidence of uncontrolled discharges may include, but is not be limited to, the presence of landfill gas odours, gas bubbling within puddles and/or the leachate cut-off drain and from the development of fissures in the landfill cap.*

Aftercare Management Plan

6. Within three months of the commencement of this consent, and thereafter following any amendments to the AMP made in accordance with Condition 8(i), the Consent Holder must submit an AMP to the Consent Authority for certification. If the Consent Holder has not received a response from the Consent Authority either certifying the AMP or refusing to certify the AMP within one month from the date of submission of the AMP, the AMP is deemed to be certified.
7. The Consent Holder is to ensure that all activities and operations at the closed landfill site are carried in accordance with the certified AMP required by Condition 8 of this consent.
8. The AMP must be based on the AMP submitted as part of the application and must apply to all aspects of the closed landfill as authorised by Consents [to insert] to [to insert].

The purpose of the AMP is to ensure that procedures are in place that will ensure that the closed landfill, during the aftercare period, is appropriately managed so that adverse effects on the environment arising from the activities authorised by Consents [to insert] to [to insert] are avoided, remedied or mitigated. The AMP must contain procedures that, as a minimum, address:

- a) Compliance with the conditions of Consents [to insert] to [to insert].
- b) The roles and responsibilities of parties with management and operational responsibilities at the site, including relevant contact details.
- c) Site maintenance and inspection requirements, including during the different phases of the aftercare period.
- d) The performance of the site infrastructure and environment monitoring requirements, including during the different phases of the aftercare period.
- e) The criteria, or trigger levels, for changing from active management of the site's landfill leachate and landfill gas to a passive system, and a description of the stages or steps, including interim stages or steps, associated with the change from active to passive management of these systems.
- fa) Implementation of a strategy that requires regular reviews, at least every 5-years, of the risks to the site arising from climate change, and where risks are identified, the procedures to be implemented by the Consent Holder for addressing the risks.
- fb) Emergency management and contingency procedures, including, but not limited to, from natural hazards such as site flooding.
- g) Recording and responding to complaints and incidents at the site.

- h) The future use and management of the site, including, but not limited to, the basis for providing access to site by third parties.
- i) Reviews of the AMP, which at a minimum, must occur:
 - within six months of identifying any management actions, methods or policies that are to be implemented, as identified by the process undertaken in accordance with Condition 13, to avoid matters detected by complainants or incidents occurring in the future.
 - at least every two years during the first 10 years of this consent, and thereafter at least every five years; and
 - whenever there is a significant change in the nature of site operations, which includes, but is not limited to, when the site changes from active to passive management of the landfill leachate and landfill gas.

Any amendments to the AMP arising as a result of a review carried out in accordance with the requirements of part (i) of this condition, are to be submitted to the Consent Authority for re-certification before being implemented at the closed landfill site.

Monitoring

- 9. While landfill gas is being flared at the Eastern Landfill, the Consent Holder must have in place a system, or systems, to monitor and record the flow rate of the landfill gas generated from the site. At a minimum, the landfill gas flow rate must be measured at least monthly.
- 10. The Consent Holder must monitor the composition of the landfill gas within the gas conveyance pipe network to the landfill gas flares/s and/or the passive vent/s at the following frequency:
 - a) While flaring of the landfill gas is occurring, at least monthly;
 - b) Thereafter, at least quarterly, during January, April, July and October each year, and only from the landfill gas well embedded in the landfill.

The landfill gas parameters to be monitored are methane, carbon dioxide, oxygen, carbon monoxide and hydrogen sulphide.

- 11. The Consent Holder must monitor the composition of the landfill gas at wells LGS1, LD5, LGS7, LS21A, LGS27, LGS29, LS31, LS32, G34, G35, G36, G37, G38, MW1, MW2, ~~and MW3~~ and [new well reference], as identified on Plan [to insert] attached to this consent, at the following frequency:
 - a) At least quarterly, during January, April, July and October each year, unless Part (b) of this condition applies;
 - b) The frequency of monitoring may be reduced, or monitoring may cease, provided that the following requirements have been met:
 - A review of the last two years of monitoring data, and an associated assessment of adverse effects on the environment has confirmed that the risks associated with landfill gas generation and/or migration are minimal as determined by a suitably qualified and experienced person; and
 - Written notice of the proposed amendments to monitoring programme required by this condition, including provision of the assessment carried out, has been provided to the Consent Authority and the Consent Authority

certifies that the proposed amended monitoring programme is appropriate;
and

- The review to reduce or cease monitoring can only be undertaken by the Consent Holder at two yearly periods following the grant of this consent.
 - c) The landfill gas parameters to be monitored are methane, carbon dioxide, oxygen, carbon monoxide and hydrogen sulphide.
12. The results of all monitoring carried out in accordance with Conditions 9 to 11 must be provided to the Consent Authority annually as part of the annual report required by Condition 15, and at all other times must be available for inspection upon request by the Consent Authority.

Complaints and Incidents Register

13. The Consent Holder must maintain a record of complaints and incidents in relation to all activities at the closed landfill site authorised by Consents [to insert] to [to insert], including complaints received and incidents that have occurred in relation to the activity authorised by this consent. The register must include, but not be limited to:
- a) The location where the complainant detected the matter that is the subject of the complaint or where the incident occurred, and the associated date and time that the matter was detected, or the incident occurred.
 - b) A description of the nature of matter detected by the complainant or the nature of the incident that occurred.
 - c) The name, phone number and address of the complainant, unless the complainant elects not to supply this information.
 - d) In relation to discharges to air, a description of the weather conditions, including approximate wind speed and direction when the discharge was detected by the complainant or when the incident occurred.
 - e) Action taken by the Consent Holder to avoid, remedy or mitigate the matter detected by the complainant or the incident that occurred, and any policies or methods put in place to avoid the matter or incident occurring again.

The complaints and incident record must be provided to the Consent Authority annually as part of the annual report required by Condition 15, and at all other times the complaints and incident record must be available for inspection upon request by the Consent Authority.

Advice Note: *An incident may include, but is not limited to, operational failures, natural hazard effects and environmental incidents where monitoring has identified that the landfill's aftercare activities are adversely affecting the environment.*

Reporting

14. a) The Consent Holder must notify the Consent Authority in a timely manner, and no longer than five working days, after the Consent Holder becomes aware of any sudden adverse change in gas levels, or if a trend of increasing gas concentrations of flow rates is indicated.
- b) The Consent Holder must also register such events as an incident in the Complaints and Incidents Register in accordance with Condition 13.
- c) The Consent Holder must investigate and then implement actions, if feasible, in a timely manner, that remedies or mitigates the incident. These actions and

outcomes must be recorded in the Complaints and Incidents Register required by Condition 13, and must also be reported to the Consent Authority within one month of the action or outcome being resolved by the Consent Holder.

Advice Note: *Sudden adverse change is where there is a significant increase in gas concentrations or flow rates which is inconsistent with previous monitoring data and/or the results are unexpected.*

15. By 30 November each year, the Consent Holder must prepare and have submitted to the Consent Authority, an annual report related to the closed landfill activities authorised by Consents [to insert] to [to insert]. The annual report must include, but is not limited to:
 - a) The results of all inspections and monitoring undertaken over the preceding 12 months;
 - b) An assessment of the current state of effects on the receiving environment;
 - c) An evaluation of progress towards passive management practices at the site, including any stages or steps associated with this change, in the context of the criteria, or trigger levels, for changing from active management of the site's landfill leachate, or landfill gas, to a passive system as described in the AMP required by Condition 8 of this consent;
 - d) Proposed and / or agreed amendments to the monitoring programme; and
 - e) All complaints and incidences logged in the Complaints and Incidents Register over the preceding 12 months, and the actions in response to the complaint or incident.

Review

16. The Consent Authority may, in accordance with sections 128 and 129 of the RMA, serve notice on the Consent Holder of its intention to review the conditions of this consent each year, during the three month period either side of the date of granting this consent, or within two months of any enforcement action by the Consent Authority in relation to the exercise of this consent, for the purpose of:
 - a) Determining whether the conditions of this consent are adequate to deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the consent;
 - b) Ensuring conditions of this consent are consistent with any national environmental standards, relevant regional plans and/or regional policy statements;
 - c) Reviewing the frequency of monitoring or reporting required under this consent.

B. Discharge Permit – Discharge of Landfill Leachate

General

1. The discharge of landfill leachate, to groundwater, by seepage, through the 21 hectare base of the Fairfield closed landfill which is bounded by the leachate interception drain, must be carried out in accordance with the plans and all information submitted with the application, detailed below, and all reference by the Consent Authority as consent number [to insert].

a) [References to be inserted].

If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent will prevail.

Closed Landfill Integrity – Inspections, Maintenance and Risk Modelling

2. The Consent Holder must ensure that the closed landfill is maintained in a manner that ensures that the structural integrity of the closed landfill is maintained, and that ensures leachate generation is being effectively controlled. The key components of the site that must be maintained in accordance with this condition, include, but are not limited to:
 - a) Structurally sound landfill cap on the Eastern Landfill, and landfill surface over both the Western and Eastern Landfills, including ensuring there is no evidence of surface cracks, slope instability, erosion, seepages, inundation and/or flooding.
 - b) Appropriate vegetation coverage of the landfill surface, which includes ensuring that trees and shrubs are not present on the landfill surface.
 - c) Appropriate drainage systems, including surface drains and the stormwater management system (where required).
3. The Consent Holder must inspect the site to confirm that structural integrity of the closed landfill is being maintained and that leachate generation is being effectively controlled, and the Consent Holder must maintain a record of the inspections that have been carried out. The inspections are to be carried out at the following frequency:
 - a) While active management of site's landfill leachate system is occurring, at least every six months; and
 - b) At least annually once passive management of landfill leachate is occurring, as provided for by the conditions of Consent [to insert]; and
 - c) In a timely manner, and no more than two weeks after, any significant storm / rainfall event, significant seismic event or inundation from a tsunami or storm surge.

The Consent Holder must maintain a record of the inspections that have been carried out.

4. Where issues are identified in relation to the structural integrity of the closed landfill or the systems that control leachate generation during these inspections, the Consent Holder must:
 - a) register the issue as an incident in the Complaints and Incidents Register in accordance with Condition 9;
 - b) investigate and then implement actions, in a timely manner, that remedies or mitigates the issues identified during the inspection. These actions and outcomes must also be recorded in the Complaints and Incidents Register required by Condition 9.

5. Within two years of the commencement of this resource consent, and every five years thereafter, the Consent Holder must reassess the slope stability of the Eastern Landfill only. The purpose of this reassessment is to ensure that climate change considerations and potential seismic effects have been appropriately identified, considered and assessed. At a minimum, the reassessment must consider:
- a) Update peak ground accelerations in line with the most recent guidance and New Zealand standard documents;
 - b) The static stability of the slopes assuming elevated groundwater within the landfill mass and the associated risks from increased or upward seepage; and
 - c) The static performance of the slope from inundation of the toe of the landfill slope by a range of flood inundation levels and residence times.

Where a risk, or risks, are identified from the reassessment, the Consent Holder must register the risk as an incident in the Complaints and Incidents Register in accordance with Condition 9.

The Consent Holder must also implement actions or recommendations identified during this assessment, in a timely manner, that remedies or mitigates the risk identified. These actions, recommendations or outcomes must be recorded in the Complaints and Incidents Register required by Condition 9.

Aftercare Management Plan

6. Within three months of the commencement of this consent, and thereafter following any amendments to the AMP made in accordance with Condition 8(i), the Consent Holder must submit an AMP to the Consent Authority for certification. If the Consent Holder has not received a response from the Consent Authority either certifying the AMP or refusing to certify the AMP within one month from the date of submission of the AMP, the AMP is deemed to be certified.
7. The Consent Holder is to ensure that all activities and operations at the closed landfill site are carried in accordance with the certified AMP required by Condition 8 of this consent.
8. The AMP must be based on the AMP submitted as part of the application and must apply to all aspects of the closed landfill as authorised by Consents [to insert] to [to insert].

The purpose of the AMP is to ensure that procedures are in place that will ensure that the closed landfill, during the aftercare period, is appropriately managed so that adverse effects on the environment arising from the activities authorised by Consents [to insert] to [to insert] are avoided, remedied or mitigated. The AMP must contain procedures that, as a minimum, address:

- a) Compliance with the conditions of Consents [to insert] to [to insert].
- b) The roles and responsibilities of parties with management and operational responsibilities at the site, including relevant contact details.
- c) Site maintenance and inspection requirements, including during the different phases of the aftercare period.
- d) The performance of the site infrastructure and environment monitoring requirements, including during the different phases of the aftercare period.
- e) The criteria, or trigger levels, for changing from active management of the site's landfill leachate and landfill gas to a passive system, and a description of the stages or steps, including interim stages or steps, associated with the change from active to passive management of these systems.

- fa) Implementation of a strategy that requires regular reviews, at least every 5-years, of the risks to the site arising from climate change, and where risks are identified, the procedures to be implemented by the Consent Holder for addressing the risks.
- fb) Emergency management and contingency procedures, including, but not limited to, from natural hazards such as site flooding.
- g) Recording and responding to complaints and incidents at the site.
- h) The future use and management of the site, including, but not limited to, the basis for providing access to site by third parties.
- i) Reviews of the AMP, which at a minimum, must occur:
 - within six months of identifying any management actions, methods or policies that are to be implemented, as identified by the process undertaken in accordance with Condition 9, to avoid matters detected by complainants or incidents occurring in the future.
 - at least every two years during the first 10 years of this consent, and thereafter at least every five years; and
 - whenever there is a significant change in the nature of site operations, which includes, but is not limited to, when the site changes from active to passive management of the landfill leachate and landfill gas.

Any amendments to the AMP arising as a result of a review carried out in accordance with the requirements of part (i) of this condition, are to be submitted to the Consent Authority for re-certification before being implemented at the closed landfill site.

Complaints and Incident Register

9. The Consent Holder must maintain a record of complaints and incidents in relation to all activities at the closed landfill site authorised by Consents [to insert] to [to insert], including complaints received and incidents that have occurred in relation to the activity authorised by this consent. The register must include, but not be limited to:
 - a) The location where the complainant detected the matter that is the subject of the complaint or where the incident occurred, and the associated date and time that the matter was detected, or the incident occurred.
 - b) A description of the nature of matter detected by the complainant or the nature of the incident that occurred.
 - c) The name, phone number and address of the complainant, unless the complainant elects not to supply this information.
 - d) A description of the area's environmental conditions that are relevant to the matter detected by the complainant or the incident that occurred, including, but not limited to, the weather conditions.
 - e) Action taken by the Consent Holder to avoid, remedy or mitigate the matter detected by the complainant or the incident that occurred, and any policies or methods put in place to avoid the matter or incident occurring again.

The complaints and incident record must be provided to the Consent Authority annually as part of the annual report required by Condition 10, and at all other times the complaints and incident record must be available for inspection upon request by the Consent Authority.

Advice Note: *An incident may include, but is not limited to, operational failures, natural hazard effects and environmental incidents where monitoring has identified that the landfill's aftercare activities are adversely affecting the environment.*

Reporting

10. By 30 November each year, the Consent Holder must prepare and have submitted to the Consent Authority, an annual report related to the closed landfill activities authorised by Consents [to insert] to [to insert]. The annual report must include, but is not limited to:
 - a) The results of all inspections and assessments undertaken over the preceding 12 months;
 - b) An assessment of the current state of effects on the receiving environment;
 - c) An evaluation of progress towards passive management practices at the site, including any stages or steps associated with this change, in the context of the criteria, or trigger levels, for changing from active management of the site's landfill leachate, or landfill gas, to a passive system as described in the AMP required by Condition 8 of this consent; and
 - d) All complaints and incidences logged in the Complaints and Incidents Register over the preceding 12 months, and the actions in response to the complaint or incident.

Review

11. The Consent Authority may, in accordance with sections 128 and 129 of the RMA, serve notice on the Consent Holder of its intention to review the conditions of this consent each year, during the three month period either side of the date of granting this consent, or within two months of any enforcement action by the Consent Authority in relation to the exercise of this consent, for the purpose of:
 - a) Determining whether the conditions of this consent are adequate to deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the consent;
 - b) Ensuring conditions of this consent are consistent with any national environmental standards, relevant regional plans and/or regional policy statements;
 - c) Reviewing the frequency of monitoring or reporting required under this consent.

Advice Note/s:

- A. *Leachate, and related groundwater and receiving environment, monitoring requirements for the closed landfill are specified in Consent [to Insert] which authorises the take of groundwater containing leachate and other groundwater. This approach to monitoring has been adopted as the 'take of groundwater containing leachate' (and other groundwater) is a key component of the closed landfill's leachate management system. It is this component of the system that captures the leachate from the landfill, that has been discharged, before the leachate migrates beyond the landfill boundary. As the take component of the system does not capture all leachate, attaching the monitoring programme requirements to the take component of the leachate management system is the most appropriate means of determining the effectiveness, and the resultant effects on the environment, of the discharge of leachate from the site.*

C. Water Permit – Take of Groundwater Containing Leachate and Other Groundwater

General

1. The take of groundwater containing leachate and other groundwater, for the purpose of controlling landfill leachate and to maintain groundwater within the area bounded by the Fairfield closed landfill's leachate interception drain, must be carried out in accordance with the plans and all information submitted with the application, detailed below, and all reference by the Consent Authority as consent number [to insert].

a) [References to be inserted].

If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent will prevail.

Leachate Management

2. Until written notice has been provided to the Consent Authority in accordance with Condition 3, the Consent Holder must operate and maintain the leachate management system associated with the site in a manner that ensures the effective control of landfill leachate and to maintain the groundwater level depression within the interception drain system. The key components of the leachate management system that must be maintained in accordance with this condition including, but are not limited to:

- a) Lateral drainage network;
- b) Interception drainage trench;
- c) Sumps and pumping station;
- d) Water level monitoring system within the interception drainage trench, sumps and pumping station;
- e) Alarm systems notifying of any operations issues or when the pump station/s switches off; and
- f) Connection to the Dunedin City Council's wastewater network for disposal of the groundwater containing leachate.

Advice Note: Maintenance of the leachate management system to achieve the purpose of this condition includes maintaining a groundwater level depression in the phreatic zone (zone of saturation). The depression of the phreatic surface must be sufficient to cause the drain to intercept phreatic groundwater which would, ordinarily, have flowed outward from the drain to adjacent groundwater and the Kaikorai Stream / Kaikorai Lagoon Swamp. The slope of the phreatic groundwater level must be inward towards the interception drain/trench.

3. The Consent Holder may change to a passive leachate management system where the landfill leachate at the site is no longer intercepted and removed from the site, provided:
 - a) The criteria, or trigger levels, specified in the AMP for changing to a passive leachate management system are met; and
 - b) Written notice of the intended change has been given to the Consent Authority at least one month prior to changing to a passive leachate management system.
4. The Consent Holder must inspect the site to ascertain that site's leachate management system is operating as required, and the Consent Holder must maintain a record of the inspections that have been carried out. The inspections are to be carried out in

conjunction with the monitoring, required by Conditions 10 and 11, at the following frequency:

- a) While the site's leachate is being actively managed, at least quarterly;
- b) Thereafter, once passive management of leachate commences, at least annually.

Where evidence of uncontrolled leachate discharges beyond the site boundary is identified during these inspections, the Consent Holder must register the discharge as an incident in the Complaints and Incidents Register in accordance with Condition 8.

The Consent Holder must also investigate and then implement actions, in a timely manner, that remedies or mitigates the uncontrolled landfill gas discharge. These actions and outcomes must be recorded in the Complaints and Incidents Register required by Condition 8.

Aftercare Management Plan

- 5. Within three months of the commencement of this consent, and thereafter following any amendments to the AMP made in accordance with Condition 7(i), the Consent Holder must submit an AMP to the Consent Authority for certification. If the Consent Holder has not received a response from the Consent Authority either certifying the AMP or refusing to certify the AMP within one month from the date of submission of the AMP, the AMP is deemed to be certified.
- 6. The Consent Holder is to ensure that all activities and operations at the closed landfill site are carried in accordance with the certified AMP required by Condition 7 of this consent.
- 7. The AMP must be based on the AMP submitted as part of the application and must apply to all aspects of the closed landfill as authorised by Consents [to insert] to [to insert].

The purpose of the AMP is to ensure that procedures are in place that will ensure that the closed landfill, during the aftercare period, is appropriately managed so that adverse effects on the environment arising from the activities authorised by Consents [to insert] to [to insert] are avoided, remedied or mitigated. The AMP must contain procedures that, as a minimum, address:

- a) Compliance with the conditions of Consents [to insert] to [to insert].
- b) The roles and responsibilities of parties with management and operational responsibilities at the site, including relevant contact details.
- c) Site maintenance and inspection requirements, including during the different phases of the aftercare period.
- d) The performance of the site infrastructure and environment monitoring requirements, including during the different phases of the aftercare period.
- e) The criteria, or trigger levels, for changing from active management of the site's landfill leachate and landfill gas to a passive system, and a description of the stages or steps, including interim stages or steps, associated with the change from active to passive management of these systems.
- fa) Implementation of a strategy that requires regular reviews, at least every 5-years, of the risks to the site arising from climate change, and where risks are identified, the procedures to be implemented by the Consent Holder for addressing the risks.
- fb) Emergency management and contingency procedures, including, but not limited to, from natural hazards such as site flooding.
- g) Recording and responding to complaints and incidents at the site.

- h) The future use and management of the site, including, but not limited to, the basis for providing access to site by third parties.
- i) Reviews of the AMP, which at a minimum, must occur:
 - within six months of identifying any management actions, methods or policies that are to be implemented, as identified by the process undertaken in accordance with Condition 8, to avoid matters detected by complainants or incidents occurring in the future.
 - at least every two years during the first 10 years of this consent, and thereafter at least every five years; and
 - whenever there is a significant change in the nature of site operations, which includes, but is not limited to, when the site changes from active to passive management of the landfill leachate and landfill gas.

Any amendments to the AMP arising as a result of a review carried out in accordance with the requirements of part (i) of this condition, are to be submitted to the Consent Authority for re-certification before being implemented at the closed landfill site.

Complaints and Incident Register

8. The Consent Holder must maintain a record of complaints and incidents in relation to all activities at the closed landfill site authorised by Consents [to insert] to [to insert], including complaints received and incidents that have occurred in relation to the activity authorised by this consent. The register must include, but not be limited to:
 - a) The location where the complainant detected the matter that is the subject of the complaint or where the incident occurred, and the associated date and time that the matter was detected, or the incident occurred.
 - b) A description of the nature of matter detected by the complainant or the nature of the incident that occurred.
 - c) The name, phone number and address of the complainant, unless the complainant elects not to supply this information.
 - d) A description of the area's environmental conditions that are relevant to the matter detected by the complainant or the incident that occurred, including, but not limited to, the weather conditions.
 - e) Action taken by the Consent Holder to avoid, remedy or mitigate the matter detected by the complainant or the incident that occurred, and any policies or methods put in place to avoid the matter or incident occurring again.

The complaints and incident record must be provided to the Consent Authority annually as part of the annual report required by Condition 22, and at all other times the complaints and incident record must be available for inspection upon request by the Consent Authority.

Advice Note: *An incident may include, but is not limited to, operational failures, natural hazard effects and environmental incidents where monitoring has identified that the landfill's aftercare activities are adversely affecting the environment.*

Monitoring

General

9. Unless stated otherwise, the results of all monitoring carried out in accordance with Conditions 10 to 18 must be provided to the Consent Authority annually as part of the

annual report required by Condition 22, and at all other times must be available for inspection upon request by the Consent Authority.

Levels – Leachate Management System, Groundwater and Surface Water

10. While groundwater containing leachate is being taken in accordance with this consent, the Consent Holder must have in place a system, or systems, to continuously monitor (at 15-minute intervals) the water/leachate levels in the leachate pumping chamber (EPS42 as identified on Plan [to insert]). This monitoring data is to be downloaded at least quarterly, during January, April, July and October.

Advice Note: *The purpose of this monitoring is to confirm that the pumping system has remained operational.*

11. While groundwater containing leachate is being taken in accordance with this consent, discrete water/leachate level monitoring must be carried out at least quarterly, during January, April, July and October, at the following monitoring locations identified on Plan [to insert]:
- a) Leachate interception drain wells (LS23, LS24, LS25, LS26, LGS27, LS28, LGS29, LS30, LS31, LS32 and LS33);
 - b) Leachate pumping chamber (EPS42);
 - c) Groundwater wells within the landfill footprint (LGS1, LS2, LS6, LS9, LS14 and LD5);
 - d) Groundwater wells outside the landfill footprint (LGS7, LS10, LS13, LS15, LS19, LS21A, LS22, LD8, LD11, LD17 and LD20); and
 - e) Surface water locations (SP1, SP2, SP3 and SP5)

Leachate

12. While groundwater containing leachate is being taken in accordance with this consent, the Consent Holder must have in place a system, or systems, to monitor and record the instantaneous abstraction rate of the leachate, and associated groundwater, that is taken from the site. The monitoring data is to be:
- a) Accurately recorded at an average rate of 15 minutes; and
 - b) Provided to the Consent Authority within the annual report required by Condition 22, and available to the Consent Authority upon request.
13. While groundwater containing leachate is being taken in accordance with this consent, the Consent Holder must collect samples, at least every six months during January and July, from the leachate interception drain wells, at sampling locations LS24, LS26, LS28, LS30 and LS32 (as identified on Plan [to insert]). The samples must be analysed for the following parameters:
- a) pH, conductivity, temperature, total ammoniacal nitrogen, phosphorus, dissolved reactive phosphorus, chloride.
14. While groundwater containing leachate is being taken in accordance with this consent, the Consent Holder must collect a sample, annually in July, from the leachate pumping chamber (EPS42 as identified on Plan [to insert]). The sample must be analysed for the following parameters:
- a) COD, BOD₅, total ammoniacal nitrogen, temperature, conductivity, pH, calcium, magnesium, sodium, potassium, chloride, alkalinity, bicarbonate, sulphate, nitrate, phosphorus, dissolved reactive phosphorus, iron, zinc, copper, lead and cation/anion ratio.

Groundwater Quality

15. The Consent Holder must monitor the quality of groundwater from samples collected from wells LGS1, LGS7, LS10, LS13, LS15, LS19, LS22, LD8, LD11, LD17 and LD20, as identified on Plan [to insert] attached to this consent, at the following frequency:
 - a) At least every six months, during January, and July each year, unless Condition 19 of this consent applies;
 - b) The samples must be analysed for pH, conductivity, temperature, total ammoniacal nitrogen, phosphorus, dissolved reactive phosphorus, chloride.
16. The Consent Holder must monitor the quality of deep groundwater from samples collected from wells LD5, LD8, LD11, LD17 and LD20, as identified on Plan [to insert] attached to this consent, at the following frequency:
 - a) At least annually, in July each year, unless Condition 19 of this consent applies;
 - b) The samples must be analysed for COD, BOD₅, total ammoniacal nitrogen, temperature, conductivity, pH, calcium, magnesium, sodium, potassium, chloride, alkalinity, sulphate, nitrate, phosphorus, dissolved reactive phosphorus, iron, zinc, lead.

Surface Water Quality

17. The Consent Holder must monitor the quality of surface water, ~~upstream and downstream of the site,~~ as follows:
 - a) ~~At either:~~
 - ~~— The preliminary surface water sampling locations SW1, SW2, SW3, SW4, SW5, SW6 and SW7 shown on Plan [to insert]; or~~
 - ~~— The relocated and confirmed surface water locations SW1, SW2, SW3, SW4, SW5, SW6 and SW7, which have been confirmed by suitably qualified persons, following site inspection to confirm access and their suitability with respect to the area of groundwater upwelling. If the sampling locations are relocated, as provided for by this condition, this will be advised in the annual report required by Condition 22.~~
 - a) When the estuary mouth is open, and thus when sampling locations are accessible, as follows:
 - surface water samples are to be collected from SW2b, SW3b, SW4, SW5 and SW7 shown on Plan [to insert];
 - in-situ monitoring for conductivity, pH, temperature and dissolved oxygen must be undertaken at each sample location;
 - the surface water samples are to be analysed for BOD₅, salinity, alkalinity, calcium, sodium, chloride, potassium, sulphate, nitrate-nitrogen, nitrite-nitrogen, total ammoniacal-nitrogen, dissolved reactive phosphorus, total phosphorus, total nitrogen, magnesium (total and dissolved), iron (total and dissolved), lead (total and dissolved) and zinc (total and dissolved); and
 - samples are to be collected aAt least monthly quarterly, during January, April, July and October, unless Condition 19 of this consent applies.
 - b) When the estuary mouth is closed, and thus when some sampling locations are not accessible, as follows:

- surface water samples are to be collected from SW2b and SW3b and from the edge of wetland / estuary near SW4 and SW7 shown on Plan [to insert];
 - in-situ monitoring for conductivity, pH, temperature and dissolved oxygen must be undertaken at each sample location;
 - the surface water samples are to be analysed for BOD₅, salinity, alkalinity, calcium, sodium, chloride, potassium, sulphate, nitrate-nitrogen, nitrite-nitrogen, total ammoniacal-nitrogen, dissolved reactive phosphorus, total phosphorus, total nitrogen, magnesium (total and dissolved), iron (total and dissolved), lead (total and dissolved) and zinc (total and dissolved);
 - for the first two years following the grant of this consent, three-rounds of monitoring in the 12-month period from 1 November to 31 October each year, with each round of monitoring being at least one-month apart (unless the estuary mouth has re-opened in which case Condition 17(a) applies); and
 - thereafter, unless Condition 19 applies, once every two-years, with the monitoring event consisting of three-rounds of monitoring, with each round of monitoring being at least one-month apart (unless the estuary mouth has re-opened in which case Condition 17(a) applies).
- c) ~~The samples must be analysed for salinity, dissolved oxygen, BOD₅, total ammoniacal nitrogen, temperature, conductivity, pH, calcium, magnesium, sodium, potassium, chloride, alkalinity, sulphate, nitrate, phosphorus, dissolved reactive phosphorus, iron, zinc, lead.~~

Ecology

18. The Consent Holder must ~~ensure that an ecological monitoring programme, consisting of habitat assessment, macroinvertebrate community composition, vegetation survey, birds counts and fish surveys, is carried out at the following frequency: monitor the ecology of nearby surface water features as follows:~~

- a) Samples are to be collected as follows:
- Surficial sediments samples are to be collected from SW2b, SW3b, SW4, SW5 and SW7 shown on Plan [to insert] and analysed for total phosphorus, total nitrogen, total organic carbon, total recoverable iron, lead and zinc; and
 - Benthic infauna samples are to be collected from SW4, SW5 and SW7 and analysed for benthic community composition and abundance; and
 - Macroinvertebrate samples are to be collected, via a kicknet and at low tide, from SW2b and SW3 with a Macroinvertebrate Community Indices assessment completed for the samples collected.
- b) The benthic infauna and macroinvertebrate sampling required by part (a) of this condition is to occur at the same time as the surficial sediment sampling; and
- c) Annually (if sample locations are accessible), between the months of October to March, unless Condition 19 of this consent applies. ~~for the first three years following the grant of this consent; and~~
- b) ~~Thereafter, unless Condition 19 applies, once every five years, between the months of October to March.~~

~~At a minimum, sampling locations for the ecological monitoring programme must align with the locations for surface water monitoring required by Condition 17.~~

Reduction and/or Cessation of Monitoring

19. The frequency of monitoring required by Conditions 10 to 18 may be reduced, or monitoring may cease, provided that the following requirements have been met:
- a) A review of the last two years of monitoring data, and an associated assessment of adverse effects on the environment, has confirmed that the risks associated with the generation of landfill leachate and migration beyond the site boundary are minimal as determined by a suitably qualified and experienced person; and
 - b) Written notice of any proposed amendments to the monitoring programme under this condition, including provision of the assessment carried out under part (a), has been provided to the Consent Authority and the Consent Authority certifies that the proposed amended monitoring programme is appropriate; and
 - c) The review to reduce or cease monitoring can only be undertaken by the Consent Holder at two yearly periods following the grant of this consent.

If the Consent Holder has not received a response from the Consent Authority either certifying the proposed amendments or refusing to certify the proposed amendments within one month from the date of submission of the written notice being provided under (b), the proposed amendments are deemed to be certified.

Mitigation – Effects from Climate Change

20. Within two years of the grant of this resource consent, the Consent Holder must complete an assessment and/or modelling, and a design, for proposed mitigation works. The purpose of these mitigation works is to minimise the inundation of the leachate management system and to protect the landfill toe and landfill stability from the adverse climate change effects associated with the increased occurrence of high estuary levels and/or wave generated erosion.

Advice Note: *At the time this resource consent was processed, an identified solution for the mitigation works is to increase the level of the site's perimeter access road and put in place associated protection/armouring works. An alternative solution/s, that achieves the purpose of this condition, maybe identified as part of the assessment and/or modelling required by this condition. For this reason, a specific solution has not been identified within this condition.*

21. The outcomes, in terms of the identified design, required by Condition 20 must be provided to the Consent Authority within three months of completion of the required assessment. The Consent Holder, in providing the Consent Authority with the assessment carried out, must identify the timeframes for completing the construction of the design identified by the assessment.

Advice Note: *Additional resource consents for the construction works (i.e., soil disturbance and/or earthworks) may be required to authorise the proposed works. If this is the case, the resource consents will need to be in place prior to construction works commencing.*

Effectiveness and Technology Review

- 21A. The Consent Holder must, at 5-yearly intervals, with the first interval commencing during the 5-year anniversary of the commencement of this consent, undertake an assessment which:

- a) reviews the effectiveness of the leachate management system from an engineering perspective, with this assessment based on the findings of the monitoring carried in accordance with Conditions 9 to 19 of this consent;

- b) reviews any proven and practical technological developments in the previous 5-years that are potentially relevant to the site's leachate management system, and the costs and benefits of the implementation of these developments at the site; and
- c) details any measures that have been implemented in the previous 5-years, or that are planned to be implemented within the next five years in response to the findings in relation to (a) and (b) above.

The assessment required by this condition must be undertaken by a Suitably Qualified and Experienced Professional.

The Consent Holder must provide a copy of this assessment to the Consent Authority by 30 November of the year that assessment is undertaken.

Reporting

- 22. By 30 November each year, the Consent Holder must prepare and have submitted to the Consent Authority, an annual report related to the closed landfill activities authorised by Consents [to insert] to [to insert]. The annual report must include, but is not limited to:
 - a) The results of all inspections and monitoring undertaken over the preceding 12 months;
 - b) An assessment of the current state of effects on the receiving environment;
 - c) An evaluation of progress towards passive management practices at the site, including any stages or steps associated with this change, in the context of the criteria, or trigger levels, for changing from active management of the site's landfill leachate, or landfill gas, to a passive system as described in the AMP required by Condition 7 of this consent;
 - d) Proposed and / or agreed amendments to the monitoring programme; and
 - e) All complaints and incidences logged in the Complaints and Incidents Register over the preceding 12 months, and the actions in response to the complaint or incident.

Review

- 23. The Consent Authority may, in accordance with sections 128 and 129 of the RMA, serve notice on the Consent Holder of its intention to review the conditions of this consent each year, during the three month period either side of the date of granting this consent, or within two months of any enforcement action by the Consent Authority in relation to the exercise of this consent, for the purpose of:
 - a) Determining whether the conditions of this consent are adequate to deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the consent;
 - b) Ensuring conditions of this consent are consistent with any national environmental standards, relevant regional plans and/or regional policy statements;
 - c) Reviewing the frequency of monitoring or reporting required under this consent.

D. Discharge Permit – Discharge of Stormwater

General

1. The discharge of discharge stormwater runoff diverted from the Fairfield closed landfill into the Kaikorai Stream and Kaikorai Lagoon Swamp, after treatment through the stormwater treatment ponds, must be carried out in accordance with the plans and all information submitted with the application, detailed below, and all reference by the Consent Authority as consent number [to insert].

a) [References to be inserted].

If there are any inconsistencies between the above information and the conditions of this consent, the conditions of this consent will prevail.

Stormwater Management

2. Until written notice has been provided to the Consent Authority in accordance with Condition 3, the Consent Holder must operate and maintain the site's stormwater system at the site in a manner that ensures the effective control and treatment of the site's stormwater. The key components of the stormwater management system that must be maintained in accordance with this condition include, but are not limited to:

- a) Stormwater drainage network;
- b) The two stormwater retention / treatment ponds; and
- c) The discharge outfalls.

3. The Consent Holder may cease active management of the site's stormwater system and/or change the nature and purpose of the two stormwater ponds, provided:

- a) The criteria, or trigger levels, specified in the AMP for ceasing or changing the nature of stormwater management are met; and
- b) Written notice of the intended change has been given to the Consent Authority at least one month prior to ceasing or changing the nature of stormwater management.

Advice Note: *An example of changing the nature or purpose of the stormwater ponds, could be the planting of the ponds and creating two wetlands on the site.*

4. The Consent Holder must inspect the site to ascertain that site's stormwater management system is operating as required, and the Consent Holder must maintain a record of the inspections that have been carried out. The inspections are to be carried at the following frequency:

- a) While the site's stormwater is being actively managed, at least quarterly;
- b) Thereafter, once active management of the stormwater ceases or is changed, at least annually.

Where evidence of issues with the site's stormwater management system is identified during these inspections, the Consent Holder must register the issue as an incident in the Complaints and Incidents Register in accordance with Condition 8.

The Consent Holder must also investigate and then implement actions, in a timely manner, that remedies or mitigates the issue with the stormwater management system. These actions and outcomes must be recorded in the Complaints and Incidents Register required by Condition 8.

Aftercare Management Plan

5. Within three months of the commencement of this consent, and thereafter following any amendments to the AMP made in accordance with Condition 7(i), the Consent Holder must submit an AMP to the Consent Authority for certification. If the Consent Holder has not received a response from the Consent Authority either certifying the AMP or refusing to certify the AMP within one month from the date of submission of the AMP, the AMP is deemed to be certified.
6. The Consent Holder is to ensure that all activities and operations at the closed landfill site are carried in accordance with the certified AMP required by Condition 7 of this consent.
7. The AMP must be based on the AMP submitted as part of the application and must apply to all aspects of the closed landfill as authorised by Consents [to insert] to [to insert].

The purpose of the AMP is to ensure that procedures are in place that will ensure that the closed landfill, during the aftercare period, is appropriately managed so that adverse effects on the environment arising from the activities authorised by Consents [to insert] to [to insert] are avoided, remedied or mitigated. The AMP must contain procedures that, as a minimum, address:

- a) Compliance with the conditions of Consents [to insert] to [to insert].
- b) The roles and responsibilities of parties with management and operational responsibilities at the site, including relevant contact details.
- c) Site maintenance and inspection requirements, including during the different phases of the aftercare period.
- d) The performance of the site infrastructure and environment monitoring requirements, including during the different phases of the aftercare period.
- e) The criteria, or trigger levels, for changing from active management of the site's landfill leachate and landfill gas to a passive system, and a description of the stages or steps, including interim stages or steps, associated with the change from active to passive management of these systems.
- fa) Implementation of a strategy that requires regular reviews, at least every 5-years, of the risks to the site arising from climate change, and where risks are identified, the procedures to be implemented by the Consent Holder for addressing the risks.
- fb) Emergency management and contingency procedures, including, but not limited to, from natural hazards such as site flooding.
- g) Recording and responding to complaints and incidents at the site.
- h) The future use and management of the site, including, but not limited to, the basis for providing access to site by third parties.
- i) Reviews of the AMP, which at a minimum, must occur:
 - within six months of identifying any management actions, methods or policies that are to be implemented, as identified by the process undertaken in accordance with Condition 8, to avoid matters detected by complainants or incidents occurring in the future.
 - at least every two years during the first 10 years of this consent, and thereafter at least every five years; and

- whenever there is a significant change in the nature of site operations, which includes, but is not limited to, when the site changes from active to passive management of the landfill leachate and landfill gas.

Any amendments to the AMP arising as a result of a review carried out in accordance with the requirements of part (i) of this condition, are to be submitted to the Consent Authority for re-certification before being implemented at the closed landfill site.

Complaints and Incident Register

8. The Consent Holder must maintain a record of complaints and incidents in relation to all activities at the closed landfill site authorised by Consents [to insert] to [to insert], including complaints received and incidents that have occurred in relation to the activity authorised by this consent. The register must include, but not be limited to:
 - a) The location where the complainant detected the matter that is the subject of the complaint or where the incident occurred, and the associated date and time that the matter was detected, or the incident occurred.
 - b) A description of the nature of matter detected by the complainant or the nature of the incident that occurred.
 - c) The name, phone number and address of the complainant, unless the complainant elects not to supply this information.
 - d) A description of the area's environmental conditions that are relevant to the matter detected by the complainant or the incident that occurred, including, but not limited to, the weather conditions.
 - e) Action taken by the Consent Holder to avoid, remedy or mitigate the matter detected by the complainant or the incident that occurred, and any policies or methods put in place to avoid the matter or incident occurring again.

The complaints and incident record must be provided to the Consent Authority annually as part of the annual report required by Condition 9, and at all other times the complaints and incident record must be available for inspection upon request by the Consent Authority.

Advice Note: *An incident may include, but is not limited to, operational failures, natural hazard effects and environmental incidents where monitoring has identified that the landfill's aftercare activities are adversely affecting the environment.*

Reporting

9. By 30 November each year, the Consent Holder must prepare and have submitted to the Consent Authority, an annual report assessing the effects on the environment associated with all activities at the closed landfill site authorised by Consents [to insert] to [to insert]. The annual report must include, but is not limited to:
 - a) The results of all inspections undertaken over the preceding 12 months;
 - b) An assessment of the current state of effects on the receiving environment;
 - c) An evaluation of progress towards passive management practices at the site, including any stages or steps associated with this change, in the context of the criteria, or trigger levels, for changing from active management of the site's landfill leachate, or landfill gas, to a passive system as described in the AMP required by Condition 6 of this consent; and

- d) All complaints and incidences logged in the Complaints and Incidents Register over the preceding 12 months, and the actions in response to the complaint or incident.

Review

- 10. The Consent Authority may, in accordance with sections 128 and 129 of the RMA, serve notice on the Consent Holder of its intention to review the conditions of this consent each year, during the three month period either side of the date of granting this consent, or within two months of any enforcement action by the Consent Authority in relation to the exercise of this consent, for the purpose of:
 - a) Determining whether the conditions of this consent are adequate to deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage, or which become evident after the date of commencement of the consent;
 - b) Ensuring conditions of this consent are consistent with any national environmental standards, relevant regional plans and/or regional policy statements;
 - c) Reviewing the frequency of monitoring or reporting required under this consent.

E. Land Use Consent – Defence against Water – Extension (Increase) of the Height of the Landfill Perimeter Access Road and the Addition of Armouring

NOTE:

The following are an outline of the nature of the proposed consent conditions that may be attached to the above resource consent (as provided in the section 91 Deferral Response letter dated 10 March 2025).

- Non-lapsing period of 10 years, given that the need to mitigate the natural hazard and climate change risk may not need to be implemented in the short-term.
- If this consent is to be given effect to, the design of the 'defence against water', including a description of the construction methodology and timeframes, and an assessment and / or modelling of the effects of the associated surface water diversion, is to be provided to the ORC, for certification, prior to any construction works commencing.
- The construction of the 'defence against water' is to be carried out in accordance with an Environmental Construction Management Plan (ECMP) certified by ORC.
- After the construction of the 'defence against water' is completed, the structure must be maintained in a manner that ensures that the maintenance of its structural integrity.
- Inspections to confirm that the structural integrity of the 'defence against water' is being maintained must be undertaken, with records of the inspections kept. Inspections are to occur at the same time as inspections of the structural integrity of the landfill (as outlined in proposed Condition 3 of the discharge permit to discharge landfill leachate).
- Where inspections identify issues with the structural integrity of the structures, the issue is to be registered as an incident in the complaints and incident register, and investigated with remediation or mitigation actions implemented in a timely manner.
- The management of the 'defence against water' must be carried out in accordance with appropriate procedures contained in the closed landfill's Aftercare Management Plan (AMP) (refer to the proposed AMP conditions contained in Parts A to D of this document).
- A complaints and incident register must be maintained in relation to all activities at the closed landfill site, including the 'defence against water' (refer to the proposed register condition contained in Parts A to D of this document).
- Annual reporting condition (refer to the proposed annual report condition contained in Parts A to D of this document).
- Review condition (refer to the proposed review condition contained in Parts A to D of this document).

F. Water Permit – Diversion of Water – Within the Bed of the Kaikorai Stream and Kaikorai Lagoon Swamp as the Result of the Establishment of a Defence against Water

NOTE:

The following are an outline of the nature of the proposed consent conditions that may be attached to the above resource consent (as provided in the section 91 Deferral Response letter dated 10 March 2025.

- The diversion of water is associated with the ‘defence against water’ authorised by Consent [number to be inserted].

G. Land Use Consent – Additional Landfill Gas Monitoring Well

NOTE:

The following are an outline of the nature of the proposed consent conditions that may be attached to the above resource consent (as provided in the section 92 Response letter dated 6 June 2025.

- The monitoring well is to be installed within 12 months of the land use consent being granted. This timeframe accommodates the possibility that contracting drillers, given their workloads, may be challenging.
- The monitoring well is to be located outside of the footprint of the Eastern Landfill, to the north of the well MW1 and on the southern side of the site boundary.
- The monitoring well is to be screened from 1m to at least 3m bgl or to a depth that intercepts the groundwater table at all times.
- If waste material and / or contaminated soils are encountered during well installation, the materials and /or soil is to be contained and removed from the site for disposal at an approved facility.
- Once the well is installed, the well is to be capped, and thus sealed, so that contaminants cannot enter the well.
- Within 20 workings days of the well being installed, WM are to provide the 'bore' log to ORC and advise ORC of the exact location of the well.