

10. MONITORING OF COUNCIL OWNED CLOSED LANDFILLS

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Officer responsible:	City Water & Waste Manager
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PURPOSE OF REPORT

1. The purpose of this report is to update the Community Board on the effects of leachate from former landfills on reserves in the Spreydon/Heathcote ward. The report is presented in response to a request from the Board on 5 December 2006, for this information.

EXECUTIVE SUMMARY

2. There are nine reserves on closed landfills in the Spreydon/Heathcote ward and routine monitoring is only carried out on the Hansen Park site.
3. Monitoring of the Hansen Park closed landfill in 2006, has shown that leachate discharges from the site do not appear to be having a significant adverse environmental effect on groundwater and surface water quality downgradient of the landfill.

FINANCIAL AND LEGAL CONSIDERATIONS

4. Financial provision for closed landfill monitoring is included in the LTCCP.
5. Monitoring of a number of closed landfills is a requirement of the consent conditions for closed landfills that have resource consents.

BACKGROUND ON MONITORING OF COUNCIL OWNED CLOSED LANDFILLS

6. The Council owns a number of sites which have previously been used for the disposal of refuse. Many of these sites which are scattered throughout the city, and have not received any refuse for many years/decades, are used for recreation purposes as parks, sports fields and reserves.
7. There are nine Council owned sites in the Spreydon/Heathcote ward that are old landfills. These locations and the dates the sites were used for landfilling are as follows: Centennial Park (1915-1947), Hansen Park (1936-1955), Bradford Park (1923-1929), Waltham Park (1880-1921), Simeon Park (1915-1919), Spreydon Domain (1909-1930), Thorrrington Road Reserve (date unknown) and Alderson Reserve (approximately 1980's).
8. An evaluation of the potential environmental effects of the old landfills was carried out in 1992/93 when it was considered that apart from the Hansen Park site, the possibility of adverse effects from the landfills was minimal. Because of the size, age and proximity to the Heathcote River of the Hansen Park landfill, further investigations were carried out on the site, resulting in a consent for discharge of contaminants being required by the Regional Council.
9. The consent requires annual sampling of the river water upstream and downstream of the landfill and groundwater from a monitoring well near the centre of the landfill. Samples are analysed for a number of inorganic and organic compounds and select metals. Analysis results are evaluated against Australian and New Zealand Environment and Conservation Council (ANZECC) freshwater trigger values for ecosystem protection and New Zealand Drinking Water Standards (NZDWS).
10. The 2006 monitoring has been completed and based on the analysis of the samples, and the current guidelines, the leachate discharges do not appear to be having a significant adverse environmental effect on groundwater and surface water quality downgradient of the landfill.
11. A monitoring report for the landfill has been completed and forwarded to ECan as required by the resource consent.
12. To date ECan has not commented on the 2006 Annual Reports, and ongoing monitoring of the landfill on an annual basis will continue unless required otherwise by ECan.

STAFF RECOMMENDATION

It is recommended that the Community Board receive this information.