

Monitoring Programme:

Groundwater:

Groundwater flow is north east to south west direction-refer to Tier 3, section 2.8.2

Locations proposed are,

MW3- Up gradient

MW6- Down gradient

MW7- Down gradient

Rational:

'Landfill Monitor Manual', EPA 2003 specifies a minimum of one groundwater monitoring borehole up-gradient and two down-gradient in aftercare. It's over 30 years since waste was deposited on site and therefore the minimum locations appear appropriate.

Frequency proposed is,

Biannual, January to March(wet) and June to September (dry)

Rational:

'Landfill Monitor Manual', EPA 2003, suggests the frequency should be site Specific in aftercare

Parameters proposed are,

Nickel and Ammonical Nitrogen

Rational:

Groundwater Screening carried out(Refer to Tier 3, section 4.3.4 and table 4.1) identified Nickel and Ammonical Nitrogen as chemicals of potential concern.

Post Capping:

A downward trend should be observed in results for these two parameters.

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Landfill Gas:

Locations proposed are,

Locations, 01,02,04,05,08,09 and 10 as detailed in Figure 2.2, Section 2.13, Tier 3 investigation report. These locations are within the waste body. Due to the location of site boundary it is not possible to install perimeter gas wells but the locations proposed are close to boundary of the site.

Frequency proposed is,

Biannual

Rational:

'Landfill Monitor Manual', EPA 2003 specifies a minimum 2 monitoring points per hectare and a frequency of six monthly in aftercare.

Post Capping:

No upward trend should be observed in methane and carbon dioxide levels near the boundary.

Surface Water:

No surface water monitoring is proposed as all surface water run-off is diverted to a collection sump at the west boundary of the site and pumped to Newcastle West Waste Water Treatment Plant for treatment.

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