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Mr. Gerard McNamara,
 Senior Engineer,
 Water Services Section,
 Kerry County Council,
 Maine St.,
 Tralee,
 Co. Kerry

16th November 2005

Our Ref: MGE0031LT0030GAL
 File Ref: 330

Re: Waste Licence Application for Killarney Waste Disposal (WL217-1) – Effluent to WwTP

Dear Mr. McNamara,

Please find attached updated information for the effluent from Killarney Waste Disposal which has the estimated volume and estimated **BOD** re-calculated. The attachment is an extract from further information which was forwarded to the EPA in relation to effluent from Killarney Waste Disposal. When processing recommences at the facility the effluent will be re-analysed and re-assessed.

We are providing this information on behalf of Killarney Waste Disposal.

We trust this is satisfactory, but please do not hesitate to contact the undersigned if you have any queries.

Yours sincerely,

Siobhan Aherne

Siobhan Aherne
Senior Project Scientist
 for and on behalf of RPS Consulting Engineers

sa/wm

cc. Sean Murphy, KWD

Office of Licensing & Guidance EPA Headquarters

Encl.

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ii) Impact of Effluent on WwTP

Appendix D provides details on the analysis of the effluent from the MRF building which is being sent to Killarney WwTP for treatment. However we recommend that the effluent is re-analysed as the results for BOD and COD are significantly higher than expected (compared to maximum BOD and COD concentrations for leachate referenced in the EPA Landfill Site Design Manual). In the meantime we have referenced the EPA Landfill Site Design Manual for BOD concentrations for leachate to assess the impact of this effluent on the WwTP and subsequently the environment.

Killarney Wastewater Treatment Plant has been designed for a capacity of 42,000 Population Equivalent¹, i.e. 9,450 cu.m/day and 2,520 kg BOD/ day.

Current plant loading averages 8,666 cu.m per day with an average BOD of 182 mg/l¹ (i.e. 1,577 kg BOD/ day). This includes leachate loading from the current waste facility.

Performance compliance testing of the plant indicates that the plant is producing treated effluent well within the required standard. Annual averages of 5.7 mg/l BOD and 0.3 mg/l Total Phosphate have been recorded.

The leachate loading from the expanded waste facility will be delivered by tanker to the wastewater treatment plant, twice a month. The calculated load per delivery is:

- ***Volume 6.77 cu.m***
- ***BOD Peak 460 kg and Average 115 kg (using a peak concentration of 68,000 mg/l BOD²).***

Based on the above figures the plant has capacity to accept the additional flow and BOD loading. The current performance of the plant would further indicate that it has sufficient capacity to cope with any increased nutrient loading from the waste facility.

¹ Kerry County Council – Killarney WwTP records

² EPA Landfill Manuals

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