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BIOGILL ULTRA PLUG & PLAY BIOLOGICAL WASTEWATER TREATMENT SYSTEM

REPORT

Prepared by Mark Phillips, Director

Biomass Energy Advisory Limited "BioMe" has been engaged to provide a report for and on behalf of Southern Parallel Sports Campus "SPSC" to outline, research and detail SPSC chosen sewage and wastewater treatment solution to meet SPSC strict environmental and ecological commitment and requirements. As the proposed campus falls outside Ashburton District Council services SPSC has chosen to implement 'self-service' system to manage its wastewater treatment.

The report will set out the BioGill Ultra Wastewater Treatment System supported by several case studies and comparison reports.

BioME undertook research which involved speaking with user sights based in Australia and Pacific Islands where the system has replaced older technologies delivering vastly improved outcomes, the included case studies will outline each installed BioGill site.

SPSC wishes to utilise the treated water for its irrigation and firefighting requirements and to do so will implement additional supporting systems to ensure environmental and ecological standards, which will not only meet New Zealand AS/NZS 1547:2012 standards, but as a result providing greater assurances.

These systems include grease and food waste traps installed in all catering facilities feeding into the BioGill system and the discharged water processed through a through a series of filters and finally through a Filter Septic Discharge UV System to ensure the removal of any bacteria or virus that may be present. The purified water will be pumped to a surface sealed area to planted wetland feeding into the sealed storage pond for irrigation and fire fighting supply ensuring no effect to groundwater levels. SPSC intends working closely with the Ashburton District Council and ECAN to ensure the complete solution meets the AS/NZS 1547:2012 standards required.

BioME following extensive research are in no doubt the chosen system will provide SPSC with a proven system which will meet its requirements and provide scalability as and when the campus needs increase. The following information details the system and provides case studies to demonstrate its capabilities and solution delivery.