

105031 Meremere Wastewater Sewage Treatment Discharge 1 July 2011 – 30 June 2012

This consent authorises the Consent Holder to: discharge up to 480 cubic metres per day of treated domestic wastewater from oxidation ponds and constructed subsurface wetland (planted rock filter), into the Waikato River, in the vicinity of State Highway 1, Meremere.

	Conditions	Comply Yes/No	Comments
1	The wastewater treatment system shall be operated and maintained in accordance with (a) the application for this consent; and (b) the document titled “Meremere wastewater treatment application for Resource consent renewal” 25 March 2001; and (c) the document titled “Meremere wastewater treatment, assessment of environmental effects 25 March 2001.	Yes	The operation of the wastewater system is generally in accordance with the documentation supplied.
2	The treatment plant shall be managed and operated by an appropriately trained operator.	Yes	The treatment plant is managed and operated by appropriately trained and experienced engineers and operators. Experience in wastewater operations of key personnel includes: Lou Larson – Water and Wastewater Manager (18 yrs) Peter Saward – Treatment Plants Engineer (24yrs) Craig Peebles – Treatment Plants Supervisor (18yrs) Parvati Patel – Planning Engineer (10yrs) Chris Harris – Operator (2yrs) Nigel O’Connor – Operator (8yrs) Johannes Mostert – Operator (4yrs) Caleb Powell – Cadet Operator (3yrs)
3	The consent holder shall provide easy access to the treatment plant and disposal facilities for the measurement of flow and quality of the discharge to the Waikato river.	Yes	Easy access is provided to the facility and to the disposal facilities for the measurement of flow and water quality measurement.

	Conditions	Comply Yes/No	Comments
4	The consent holder shall ensure that contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.	Yes	It is normal procedure that any contracted organisations be advised of the relevant conditions of the resource consent if it is deemed their work may potentially negatively affect the capacity of the plant to meet conditions of the consent.
5	The consent holder shall pay any required administrative charge to Environment Waikato.	Yes	The fees have been paid.
6	<p>The tertiary treatment constructed subsurface flow wetland (planted rock filter) shall be constructed and maintained to the following standards:</p> <ul style="list-style-type: none"> (a) A minimum area of 0.2 hectares including embankments; (b) An average depth of 0.3 metres; (c) Contain a filter medium with demonstrated ability to provide tertiary treatment to secondary treated wastewater; (d) Planted with suitable native wetland species; and (e) Maintained to high vegetative cover. 	<p>Yes Yes No Yes Yes</p>	<p>The vegetative cover on the subsurface flow rock filter wetland was maintained as best as practicable and good growth in plant size has continued.</p> <p>The wetland rock filter generally improves the discharge values slightly. It also buffers the final pH contributing to a reduction of ammonia in the toxic NH₃-N form in the discharge. Plantings of native wetland species occurred in September 2005 and repeated in spring 2007. Plantings are now well established.</p>
7	The consent holder shall provide the Waikato Regional Council the final detailed design of the constructed subsurface flow wetland (planted rock filter) system in writing prior to its construction.	Yes	Final detailed design of the constructed subsurface wetland has been submitted to Environment Waikato.
8	<p>The consent holder shall ensure that the oxidation pond banks are maintained to a good working standard. To this end the consent holder shall:</p> <ul style="list-style-type: none"> a) Repair the oxidation pond banks within six months of the commencement of this consent at locations where the banks have slumped and the geo-textile fabric is damaged. The repair shall include rock armouring to stabilise the embankments. b) Carry out six monthly visual structural inspection of the oxidation pond banks and liner and undertake maintenance where necessary to comply with this condition. 	Yes	<p>Maintenance work to the oxidation pond banks is carried out as and where necessary.</p> <p>Routine maintenance checks are carried out on the wastewater system and any problems noted. Site visits were undertaken at least fortnightly through the reporting period.</p> <p>Details of work carried out and faults are recorded in the plant log on site.</p>

	Conditions	Comply Yes/No	Comments
	c) Keep a record of maintenance that is undertaken on the pond banks and liner and make this record available to the Waikato Regional Council at all reasonable times and upon request.		
9	The consent holder shall initiate consultation with Genesis Power Ltd before undertaking any construction works associated with the wastewater treatment system and pipeline in the vicinity of the Genesis Power Limited rehabilitation works (associated with the Meremere Power Station site) with regard to the location of those works where the rehabilitation works within the Genesis Power Ltd lease may be affected.	Yes	Not required during the consent year.
10	Any construction works carried out in association with any new wastewater treatment system and pipeline excavations or other construction works undertaken by or for the consent holder shall be carried out in such a way that they do not expose areas of ash, municipal waste or asbestos within the boundary of the Genesis Power Ltd lease for the Meremere Power Station site. Should any areas of ash, municipal waste or asbestos be exposed, the consent holder shall notify Genesis Power Ltd and shall ensure that these areas are restored by an appropriately qualified and experienced party to their original design standard within 14 days.	Yes	Not required during the consent year.
11	The discharge of treated wastewater via the Meremere Power Station stormwater reticulation system shall cease within six months of the commencement of resource consent 105033 or any other relevant resource consent that authorises an alternative discharge method for the Meremere wastewater discharge, whichever is the sooner.	Yes	The Waikato District Council now discharges wastewater via its own pipeline.
12	The maximum volume of treated wastewater discharged shall not exceed 480 cubic metres in any 24-hour period and the average dry weather flow shall be maintained at a level not exceeding 160 cubic metres per day.	Partial	<p>The maximum consent of 480m³ was only exceeded for 10 days during July 2011. This was due to the pond being lowered to carry out modifications to the weir structure.</p> <p>The average dry weather flow calculated as the median daily flow for the month of March 2012* was 137m³.</p>

	Conditions	Comply Yes/No	Comments
			* (See Huntly consent for calculation method)
13	<p>The time of discharge shall be limited to the period between 10pm and 5am the following day, provided always that if:</p> <p>a) there is an accidental power failure during that period, or b) the daily rainfall exceeds a 5% AEP event (Annual Exceedence Probability event) such that discharging is reasonably necessary outside those hours,</p> <p>the consent holder may discharge for such longer or other period as may be required. If at all possible, the consent holder shall notify and consult with Waikato Regional Council and the Mercer Rowing Club (as per condition 23) prior to the events described above, or if this is not possible, as soon as practicable after the event as to an appropriate discharge regime.</p>	Yes	<p>Any exceedences of the pumping time limits have been advised to the appropriate organisations.</p> <p>The President of the Mercer Rowing Club was contacted by phone and had no issues with pumping outside the consented times.</p>
14	<p>The consent holder shall meet condition 15 of this consent following the installation and commissioning of the wetland and the baffling of the oxidation pond at the treatment plant or six months after the commencement of this consent, which ever occurs first. Prior to this time, condition 15 of this consent shall not apply and the consent holder shall ensure that the quality of the discharge before entering the Waikato River is equal to or less than the concentrations outlined in the table below as follows:</p>	Yes	<p>This condition was replaced by condition 15 and is no longer operative.</p>
15	<p>The consent holder shall ensure that the quality of the discharge prior to entering the Waikato River is equal to or less than the concentrations outlined in the table below following the installation and commissioning of the wetland and the baffling of the oxidation pond at the treatment plant, or until six months after the commencement of this consent, which ever occurs first, as follows:</p>		<p>The Meremere plant has significant issues regarding its ability to meet consent parameters, particularly suspended solids limits.</p> <p>Upgrades to the base infrastructure at the plant and infiltration work in the network have seen significant council investment in the Meremere scheme over the past few years. Council have delayed further expenditure on improvements due to priorities that require</p>

Conditions			Comply Yes/No	Comments																																																
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Median Discharge Quality (g/m³)</th> <th>90 Percentile Discharge Quality (g/m³)</th> </tr> </thead> <tbody> <tr> <td>Total Kjeldahl Nitrogen</td> <td>12</td> <td>15</td> </tr> <tr> <td>Ammoniacal Nitrogen</td> <td>8</td> <td>10</td> </tr> <tr> <td>Total Phosphorus</td> <td>5</td> <td>7</td> </tr> <tr> <td>Biochemical Oxygen Demand</td> <td>15</td> <td>20</td> </tr> <tr> <td>Suspended Solids</td> <td>20</td> <td>30</td> </tr> <tr> <th>Parameter</th> <th>Median Discharge Quality (MPN/100ml)</th> <th>90 Percentile Discharge Quality (MPN/100ml)</th> </tr> <tr> <td>Escherichia coli</td> <td>630</td> <td>3500</td> </tr> </tbody> </table> <p>Note: Intent is that discharge bacteriological quality is not worse than the current river quality and target is to progress to bathing water standard.</p> <p>The median of each parameter shall be calculated from the preceding 10 samples taken at the relevant river flow. Compliance with the ninety percentile discharge quality standard shall be determined by not more than one sample result in the preceding ten sample results at the relevant river flow being above the stated limit. The median and ninety percentile measures shall be based on every sample taken in accordance with monitoring conditions of this consent, any other samples taken of the discharge by the consent holder, and any samples taken by the Waikato Regional Council staff of the discharge where the results have been provided to the consent holder.</p>			Parameter	Median Discharge Quality (g/m ³)	90 Percentile Discharge Quality (g/m ³)	Total Kjeldahl Nitrogen	12	15	Ammoniacal Nitrogen	8	10	Total Phosphorus	5	7	Biochemical Oxygen Demand	15	20	Suspended Solids	20	30	Parameter	Median Discharge Quality (MPN/100ml)	90 Percentile Discharge Quality (MPN/100ml)	Escherichia coli	630	3500	<p>Yes</p> <p>No</p> <p>Yes</p> <p>Yes</p> <p>No</p> <p>No</p> <p>No</p> <p>No</p>	<p>substantial investment at other treatment sites across the district. Investigations are under way to ascertain why the UV unit is under performing.</p> <table border="1"> <thead> <tr> <th>Parameter</th> <th>Median Discharge Quality (g/m³)</th> <th>90 Percentile Discharge Quality (g/m³)</th> </tr> </thead> <tbody> <tr> <td>Total Kjeldahl Nitrogen</td> <td>11.7</td> <td>14.84</td> </tr> <tr> <td>Ammoniacal Nitrogen</td> <td>7.45</td> <td>11.97</td> </tr> <tr> <td>Total Phosphorus</td> <td>3.45</td> <td>6.5</td> </tr> <tr> <td>Biochemical Oxygen Demand</td> <td>10.5</td> <td>17.9</td> </tr> <tr> <td>Suspended Solids</td> <td>47.5</td> <td>344.7</td> </tr> <tr> <th>Parameter</th> <th>Median Discharge Quality (MPN/100ml)</th> <th>90 Percentile Discharge Quality (MPN/100ml)</th> </tr> <tr> <td>Escherichia coli</td> <td>700</td> <td>1800</td> </tr> </tbody> </table>	Parameter	Median Discharge Quality (g/m ³)	90 Percentile Discharge Quality (g/m ³)	Total Kjeldahl Nitrogen	11.7	14.84	Ammoniacal Nitrogen	7.45	11.97	Total Phosphorus	3.45	6.5	Biochemical Oxygen Demand	10.5	17.9	Suspended Solids	47.5	344.7	Parameter	Median Discharge Quality (MPN/100ml)	90 Percentile Discharge Quality (MPN/100ml)	Escherichia coli	700	1800
Parameter	Median Discharge Quality (g/m ³)	90 Percentile Discharge Quality (g/m ³)																																																		
Total Kjeldahl Nitrogen	12	15																																																		
Ammoniacal Nitrogen	8	10																																																		
Total Phosphorus	5	7																																																		
Biochemical Oxygen Demand	15	20																																																		
Suspended Solids	20	30																																																		
Parameter	Median Discharge Quality (MPN/100ml)	90 Percentile Discharge Quality (MPN/100ml)																																																		
Escherichia coli	630	3500																																																		
Parameter	Median Discharge Quality (g/m ³)	90 Percentile Discharge Quality (g/m ³)																																																		
Total Kjeldahl Nitrogen	11.7	14.84																																																		
Ammoniacal Nitrogen	7.45	11.97																																																		
Total Phosphorus	3.45	6.5																																																		
Biochemical Oxygen Demand	10.5	17.9																																																		
Suspended Solids	47.5	344.7																																																		
Parameter	Median Discharge Quality (MPN/100ml)	90 Percentile Discharge Quality (MPN/100ml)																																																		
Escherichia coli	700	1800																																																		

	Conditions	Comply Yes/No	Comments									
16	Notwithstanding the stated limits in conditions 14 and 15 of this consent, the consent holder shall make all reasonable and practical efforts to ensure that the final effluent quality is maximised within the capabilities of the treatment system in operation.	Yes	Council has made good efforts to improve the quality of final effluent. High inflows during wet weather and non settling algae have contributed to some results outside the requirements of the consent.									
17	<p>The consent holder shall ensure that after reasonable mixing the discharge does not cause any of the following effects in the Waikato River:</p> <ul style="list-style-type: none"> (a) The production of any conspicuous oil or grease films, scums, foams, or floatable or suspended materials. (b) Any conspicuous change in the colour or visual clarity. (c) Any emission of objectionable odour. (d) The rendering of fresh water unsuitable for consumption by farm animals. (e) Any significant adverse effects on aquatic life. 	Yes	There have been no observations recorded on the regular inspection sheets of any instances that indicate non-compliance with this condition.									
18	<p>The consent holder shall undertake sampling and analysis of the inflow and treated effluent as outlined in the table below as follows:</p> <table border="1" data-bbox="219 869 1059 1284"> <thead> <tr> <th data-bbox="219 869 376 906">Frequency</th> <th data-bbox="376 869 698 906">Sample Location & Type</th> <th data-bbox="698 869 1059 906">Parameters to be monitored</th> </tr> </thead> <tbody> <tr> <td data-bbox="219 906 376 1045">Daily</td> <td data-bbox="376 906 698 1045">Discharge – prior to entering the Waikato River</td> <td data-bbox="698 906 1059 1045">Flow from Datran record of pump hours, UV operation and adequate dose from Datran record.</td> </tr> <tr> <td data-bbox="219 1045 376 1284">Monthly</td> <td data-bbox="376 1045 698 1284">Discharge – prior to entering the Waikato River</td> <td data-bbox="698 1045 1059 1284">Total Phosphorus Total Kjeldahl Nitrogen Ammoniacal Nitrogen Biochemical Oxygen Demand Suspended solids Escherichia coli</td> </tr> </tbody> </table> <p>Note: Sampling point for monthly physical samples will normally be immediately downstream from the UV equipment location on the wastewater treatment site.</p>	Frequency	Sample Location & Type	Parameters to be monitored	Daily	Discharge – prior to entering the Waikato River	Flow from Datran record of pump hours, UV operation and adequate dose from Datran record.	Monthly	Discharge – prior to entering the Waikato River	Total Phosphorus Total Kjeldahl Nitrogen Ammoniacal Nitrogen Biochemical Oxygen Demand Suspended solids Escherichia coli	<p>Yes</p> <p>Yes</p>	<p>Daily - The discharge flow and pump hours are measured on site and recorded on the telemetry system. The data is summarised in the attached spreadsheet. UV intensity is trended on the telemetry screens.</p> <p>Monthly - The data is summarised in the attached spreadsheet.</p>
Frequency	Sample Location & Type	Parameters to be monitored										
Daily	Discharge – prior to entering the Waikato River	Flow from Datran record of pump hours, UV operation and adequate dose from Datran record.										
Monthly	Discharge – prior to entering the Waikato River	Total Phosphorus Total Kjeldahl Nitrogen Ammoniacal Nitrogen Biochemical Oxygen Demand Suspended solids Escherichia coli										

	Conditions	Comply Yes/No	Comments
19	All sample methods of analysis shall be detailed as in the "Standard Methods For The Examination of Water and Waste Water, 1998" 20th edition by A.P.H.A and A.W.W.A and W.E.F or any subsequent update or by some other method approved in advance by Waikato Regional Council.	Yes	Samples of the final effluent are analysed by IANZ accredited laboratories monthly. The results are recorded and a summary of the results is presented on the attached spreadsheet.
20	<p>The consent holder shall provide to the Waikato Regional Council, Watercare Services Limited, Ngati Naho Co-operative Society and Mercer Rowing Club Incorporated a written monitoring report by 30 Sept each year that this consent is current. As a minimum this report shall include the following:</p> <ul style="list-style-type: none"> (a) all data collected as required by condition 15 of this consent for 1 April to 31 March of the preceding year; (b) a summary of the monitoring results required by condition 15 of this consent for 1 April to 31 March of the preceding year and a critical analysis of the information in terms of compliance and environmental effects; (c) a comparison of data with previously collected data identifying any emerging trends; (d) comment on compliance and any reasons for non-compliance or difficulties in achieving compliance with conditions 11 of this consent; (e) comment on works that have been undertaken or proposed to be undertaken in the up-coming year to improve the environmental performance of the treatment and/or disposal system; (f) report on and discuss any complaints received regarding the treatment and/or discharge of treated effluent; and (g) any other issues considered important by the consent holder. 	Yes	<p>This report will be forwarded to Environment Waikato and the groups specified in this condition.</p> <ul style="list-style-type: none"> (a) The data table annual summary attached shows the nutrient load discharge average monthly values for Total Nitrogen and Total Phosphorous to the Waikato River. (b) The attached Summary Report gives some analysis of the plant performance (c) The Worksheet named 'Performance Trends' gives comparison data that is commented on in the Summary Report. (d) The discharge is fully compliant. (e) A new diffuser was constructed and installed in November 2011. The new diffuser extends 24 m out into the Waikato River. It consists of four sections. Section one consists of a bend at the river bank to take the pipeline down to the bed of the river. Section two is an 8m long and connects to section three. Section three is 7m in length. Section four consists of a straight section of pipe 8m in length with 7 diffuser nozzles located at 1m centres. Nozzles extend 400mm above the pipeline and disperse the treated effluent from the treatment plant into the river flow. A divers inspection will be carried out before the end of October 2012. (f) WDC Stakeholder Relationship Customer Delivery Team keeps a register of all reported incidents in the Councils CRM database. There were no complaints during the reporting year. (g) N/A

	Conditions	Comply Yes/No	Comments
21	<p>The consent holder shall notify the following parties as soon as practicable and as a minimum requirement - within 48 hours of the consent holder becoming aware of the limits specified in condition 11 and 12 of this consent being exceeded:</p> <ul style="list-style-type: none"> (a) any Resource Officer, Monitoring Officer or Programme Manager within the Resource Use Group at the Hamilton Office of the Waikato Regional Council, or equivalent personnel should those positions be superseded; (b) the Superintendent at the Tuakau Treatment Plant and the 24 hour control room of Watercare Services Limited, or equivalent personnel should those positions be superseded; (c) The Chairman and Secretary of Mercer Rowing Club Incorporated, or persons to be nominated by the Mercer Rowing Club Incorporated. (d) The Manager, Ngati Naho Co-operative Society. 	Yes	<p>All parties specified were advised of all cases where discharges outside consented limits have been required.</p> <p>The superintendent of the Tuakau water treatment plant was notified of the breach in July</p>
22	<p>The consent holder shall notify the following parties as soon as practicable and as a minimum requirement within 24 hours of any accidental discharge, plant breakdown, or other circumstances which are likely to result in the limits of this consent being exceeded:</p> <ul style="list-style-type: none"> (a) any Resource Officer, Monitoring Officer or Programme Manager within the Resource Use Group at the Hamilton Office of the Waikato Regional Council, or equivalent personnel should those positions be superseded; (b) the Superintendent at the Tuakau Treatment Plant and the 24 hour control room of Watercare Services Limited, or equivalent personnel should those positions be superseded; (c) The Chairman and Secretary of Mercer Rowing Club Incorporated, or persons to be nominated by the Mercer Rowing Club Incorporated. 	Yes	<p>All parties specified were advised of all cases where discharges outside consented limits have been required.</p>

	Conditions	Comply Yes/No	Comments
23	<p>The consent holder shall, within 7 days of any incident specified in conditions 21 and 22 occurring, provide a written report to the Waikato Regional Council, Watercare Services Limited, Ngati Naho Co-operative Society and Mercer Rowing Club Incorporated identifying the exceedance, possible causes, steps undertaken to remedy the effects of the incident and measures that will be undertaken to ensure future compliance.</p> <p>Note: The contact numbers for the parties specified in conditions 21,22 and 23 of this consent, at the time of writing the consent, are as follows:</p> <p>(a) Waikato Regional Council - Ph: 07 856 7184, fax 07 856 0551, post PO Box 4010 Hamilton</p> <p>(b) Watercare Services Limited - (i) Tuakau Treatment Plant: Ph: 09 237 8700, fax 09 237 8701 (ii) 24 hour control room: Ph: 09 634 4839, fax 09 622 1215 (iii) PO Box 59077, Mangere Bridge, Manukau</p> <p>(c) Mercer Rowing Club Incorporated (i) Trevor Simpson: Ph/Fx 07 826 3329, cell 025 953 620 (ii) Jenny Lagerstedt, Club Secretary, PO Box 690, Pukekohe</p> <p>(d) Ngati Naho Co-operative Society: Ph/Fx 09 233 6735 also fax 09 233 6714 Manager: Rima Herbert: Cellphone 0274 414 485 Postal Address: 1 Kimikimi Rd, Te Paina, Mercer Joe Heta, Chief Protectorate</p> <p>The consent holder is responsible under this consent to determine a method of maintaining current contact numbers and addresses, should they change.</p>	Yes	Waikato Regional Council has been advised of all instances of major non-compliance.

	Conditions	Comply Yes/No	Comments
24	<p>The consent holder shall provide the Waikato Regional Council with a management plan which details the procedures that will be implemented to operate in accordance with the conditions of this resource consent. This plan shall be lodged with the Waikato Regional Council within six months of the commencement of this consent and shall be reviewed and updated as a minimum every two years that this consent is operative. The plan shall address, but may not be limited to, the following:</p> <ul style="list-style-type: none"> (a) a description of the entire treatment system facility, disposal system and discharge structure; (b) a description of routine maintenance procedures to be undertaken; (c) an outline of the methods to be utilised to monitor the treatment plant in an operational sense including: <ul style="list-style-type: none"> *monitoring of influent waste water *monitoring of treatment performance; (d) specific management procedures for the efficient functioning of the treatment system; <ul style="list-style-type: none"> procedures for recording routine maintenance and all repairs that are undertaken; (e) notification procedures and contacts in case of emergencies, accidental discharge, plant breakdown, or other circumstances which are likely to result in the limits of this consent being exceeded; (f) chain of command for management of the plant; (g) contingency measures in place to deal with unusual events; (h) methods to update the management plan in terms of contact names and numbers in accordance with conditions 18, 19 and 20; (i) other actions necessary to comply with the requirements of this resource consent and; (j) procedures for improving and/or reviewing the management plan. 	Yes	An Operations and Management Plan is attached to this report.

	Conditions	Comply Yes/No	Comments
	The consent holder shall manage the wastewater treatment and discharge in accordance with the management plan outlined in this condition. Any changes to the plan shall be confirmed in writing by the consent holder following consultation with the Waikato Regional Council.		
25	<p>The consent holder shall maintain and keep a complaints register for all complaints made about the treatment and disposal site received by the consent holder. The register shall record:</p> <ul style="list-style-type: none"> (a) the date, time and duration of the event/incident that has resulted in a complaint; (b) any corrective action undertaken by the consent holder in response to the complaint including actions taken to prevent similar events in the future; (c) the location of the complainant when the event was detected; (d) the possible cause of the event; (e) the weather conditions and wind direction at the site when the odour event occurred. <p>The register shall be available to the Waikato Regional Council at all reasonable times. Complaints received by the consent holder which may infer non-compliance with the conditions of this consent shall be forwarded to the Waikato Regional Council within 5 days of the complaint being received.</p>	Yes	WDC operates an electronic complaints recording system. No complaints have been received during this reporting period.
26	The consent holder shall construct and place a sign in the vicinity of the discharge to the Waikato River in such a way that it is conspicuous to river users, advertising of the presence of the wastewater discharge.	Yes	A sign advises the presence of the discharge.
27	The Waikato Regional Council may in the month following the third, sixth, and tenth anniversary of the commencement of this consent, serve notice on the consent holder under section 128 (1) of the	Yes	No notice of intention to review the consent has been received from the Waikato Regional Council

	Conditions	Comply Yes/No	Comments
	<p>Resource Management Act 1991, of its intention to review the conditions of this resource consent for the following purposes:</p> <ul style="list-style-type: none"> (a) to review the effectiveness of the conditions of this resource consent in avoiding or mitigating any adverse effects on the environment, in particular, effects on the Waikato River water quality from the exercise of this resource consent and if necessary to avoid, remedy or mitigate such effects by way of further or amended conditions; or (b) if necessary and appropriate, to require the holder of this resource consent to adopt the best practicable option to remove or reduce adverse effects on the surrounding environment due to contaminants entering the Waikato River; or (c) to review the adequacy of and the necessity for monitoring undertaken by the consent holder. <p>Costs associated with any review of the conditions of this resource consent will be recovered from the consent holder in accordance with the provisions of section 36 of the Resource Management Act 1991.</p>		

107032 Meremere Wastewater Sewage Treatment Discharge | July 2011 – 30 June 2012

To discharge incidental odour contaminants to air from a wastewater treatment plant comprising an oxidation pond and wetland rock filter

	Conditions	Comply Yes/No	Comments
4	<p>The operation of the sewage treatment plant shall be carried out in such a way that the potential for odours is kept to a practicable minimum. The treatment and discharge of effluent shall be undertaken in such a manner that they do not produce an objectionable or offensive odour at or beyond the outer boundary of the land designated for sewage treatment and disposal.</p> <p>For the purpose of this condition the Waikato Regional Council will consider an effect that is objectionable or offensive to have occurred if any appropriately experienced officer of the Waikato Regional Council deems it so after having regard to:</p> <ul style="list-style-type: none"> (a) the frequency, intensity, duration, amount, effect and location of the effect(s) of the offensiveness of an odour; and/or (b) receipt of complaints from neighbours or the public; and/or (c) relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority. 	Yes	No complaints with respect to the treatment plant have been received by the Waikato District Council during the 2011-2012 period.

107033 Meremere Wastewater Sewage Treatment Discharge 1 July 2011 – 30 June 2012

Construct a wastewater outfall, and disturb the bed and banks of the Waikato River in association with the construction works

	Conditions	Comply Yes/No	Comments
5	<p>The consent holder shall provide the Waikato Regional Council, Genesis Power Limited, Mercer Rowing Club and Ngati Naho Co-Operative Society with detailed design of the discharge structure at least 2 weeks prior to its installation. The detailed design shall include:</p> <ul style="list-style-type: none"> a) detailed design drawings of the jet diffuser structure including methods used to anchor the structure to the river bank; and b) detailed plan showing the location of the pipeline route and location of the jet diffuser located on the bank of the river; and (d) a cross section of the Waikato River in the location that the diffuser structure is to be placed, including the location of any sand bank in the vicinity. 	Yes	<p>A new diffuser was constructed and installed in November 2011.</p> <p>The new diffuser extends 24 m out into the Waikato River. It consists of four sections.</p> <p>Section one consists of a bend at the river bank to take the pipeline down to the bed of the river.</p> <p>Section two is an 8m long and connects to section three.</p> <p>Section three is 7m in length.</p> <p>Section four consists of a straight section of pipe 8m in length with 7 diffuser nozzles located at 1m centre's. Nozzles extend 400mm above the pipeline and disperse the treated effluent from the treatment plant into the river flow.</p>
13	(e) The discharge structure shall be designed and constructed to ensure that as far as practicable local scour is avoided.	Yes	There has been no evidence of bank scour occurring.