



## 107031 Meremere Wastewater Sewage Treatment Discharge 1 July 2010 – 30 June 2011


**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 in the consent.
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.
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.
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 Waikato District Council pays a fee to Environment Waikato for the costs of auditing the resource consent.
6	The tertiary treatment constructed subsurface flow wetland (planted rock filter) shall be constructed and maintained to the following standards: (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	Yes Yes No	The vegetative cover on the subsurface flow rock filter wetland was maintained as best as practicable and good growth in plant size has continued.  A subsurface rock filter can not provide tertiary quality effluent

	Conditions	Comply Yes/No	Comments
	(e) Maintained to high vegetative cover.	Yes Partial	 <p data-bbox="1906 644 2040 676">Sept 2006</p>  <p data-bbox="1906 1150 2040 1182">June 2010</p> <p data-bbox="1249 1187 2168 1406">The wetland rockfilter 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. Their establishment has taken time. More planting will be done in 2011/2012.</p>

	Conditions	Comply Yes/No	Comments
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 was 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"> <li>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.</li> <li>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.</li> <li>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.</li> </ul>	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>
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	
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	Yes	

	Conditions	Comply Yes/No	Comments
	to their original design standard within 14 days.		
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 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.	No	<p>Non-Compliant. Significantly and regularly exceeded.</p> <p>Discharge records show that limits are regularly exceeded especially in winter rainy periods. Infiltration of the reticulation is occurring and a survey and remediation plan is currently underway and some works improvements have been done in the reporting period.</p> <p>Quite clearly the dry weather flow limit cannot be met regularly at present. The wet weather limit is also insufficient for current conditions. An application for revised conditions is required.</p>
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</p> <p>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>	No	<p>The time of the discharge of wastewater is programmed to occur only between 10pm and 5am the next morning. This is generally being achieved.</p> <p>Heavy rainfall in April/May. Notification letters were sent to WRC and interested parties, on two occasions.</p>

	Conditions	Comply Yes/No	Comments
			
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>Yes</p>	<p>Compliant TKN.</p> <ul style="list-style-type: none"> <li>▪ Median value was compliant at 8 g/m<sup>3</sup>, down from 11.5 g/m<sup>3</sup> in the previous period.</li> <li>▪ The 90<sup>th</sup> Percentile value was compliant at 13.56 g/m<sup>3</sup>, down from 15.8 g/m<sup>3</sup> in the previous period.</li> <li>▪ Maximum recorded value was 21 g/m<sup>3</sup> in December 2010.</li> </ul> <p>Compliant Total Ammonia.</p> <ul style="list-style-type: none"> <li>▪ The median value was 1.35g/m<sup>3</sup>, down from 7.95 g/m<sup>3</sup> in</li> </ul>

Conditions			Comply Yes/No	Comments																											
<table border="1"> <thead> <tr> <th>Parameter</th> <th>Median Discharge Quality (g/m<sup>3</sup>)</th> <th>90 Percentile Discharge Quality (g/m<sup>3</sup>)</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> <tr> <td>Faecal coliform</td> <td>900</td> <td>5000</td> </tr> </tbody> </table>			Parameter	Median Discharge Quality (g/m <sup>3</sup> )	90 Percentile Discharge Quality (g/m <sup>3</sup> )	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	Faecal coliform	900	5000		<p>2009-10.</p> <ul style="list-style-type: none"> <li>The 90<sup>th</sup> Percentile value was 2.34 g/m<sup>3</sup>, down from 14.8/m<sup>3</sup> in 2009-10.</li> <li>Maximum recorded value was 8.40 g/m<sup>3</sup> in June 2010.</li> </ul>
Parameter	Median Discharge Quality (g/m <sup>3</sup> )	90 Percentile Discharge Quality (g/m <sup>3</sup> )																													
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<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>			Yes	<p>Compliant TP.</p> <ul style="list-style-type: none"> <li>The median value was compliant at 1.97 g/m<sup>3</sup>, down from 3.6 g/m<sup>3</sup> in 2009-10.</li> <li>The 90<sup>th</sup> Percentile value was compliant at 3.69 g/m<sup>3</sup>, down from 6.44 g/m<sup>3</sup> in 2009-10.</li> <li>Maximum recorded value was 5.5g/m in Dec 2010.</li> </ul>																											
			Partial	<p>Partially-compliant cBOD5.</p> <ul style="list-style-type: none"> <li>The median value was 14.1 g/m<sup>3</sup>, up from 8.25 g/m<sup>3</sup> the previous period.</li> <li>The 90<sup>th</sup> Percentile value was 20.6 g/m<sup>3</sup>, down from 21.75 for 2009/2010.</li> <li>Maximum recorded value was 28 g/m<sup>3</sup> in Dec 2010.</li> </ul>																											
			No	<p>Non-compliant SS.</p> <ul style="list-style-type: none"> <li>The median value was 63 g/m<sup>3</sup>, up from 37 g/m<sup>3</sup> in 2009-10.</li> <li>The 90<sup>th</sup> Percentile value was 116 g/m<sup>3</sup>, up from 106 g/m<sup>3</sup> in 2009-10. Minimum was 12 g/m<sup>3</sup>.</li> <li>Maximum recorded value was 320 g/m<sup>3</sup> in January 2010.</li> </ul>																											
			Non Compliant	<p>Non-compliant E Coli.</p> <ul style="list-style-type: none"> <li>The median value was 3000 MPN/100mL, up from 570 in 2009-2010.</li> <li>The 90<sup>th</sup> Percentile value was 20000 MPN/100mL, down from 20280 MPN/100mL in 2009-10.</li> <li>Maximum recorded value was 23000 MPN/100mL in Jan 2011.</li> </ul>																											

	Conditions	Comply Yes/No	Comments									
		Non Compliant	Non-compliant Faecal Coli. The median value was 5400 MPN/100mL, up from 570 in 2009-10. The 90 <sup>th</sup> Percentile value was 21400 MPN/100mL, same as 2009-10. Maximum was 43000 MPN/100mL in January 2011.									
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. Approximately half the parameters are compliant. The infiltration work was done in summer and the pond level control and UV upgrades were not done until May 2011, so this work does show up in the data.									
17	The consent holder shall ensure that after reasonable mixing the discharge does not cause any of the following effects in the Waikato River: (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 might indicate non-compliance with this condition.									
18	The consent holder shall undertake sampling and analysis of the inflow and treated effluent as outlined in the table below as follows: <table border="1" data-bbox="219 1018 1057 1433"> <thead> <tr> <th>Frequency</th> <th>Sample Location &amp; Type</th> <th>Parameters to be monitored</th> </tr> </thead> <tbody> <tr> <td>Daily</td> <td>Discharge – prior to entering the Waikato River</td> <td>Flow from Datran record of pump hours, UV operation and adequate dose from Datran record.</td> </tr> <tr> <td>Monthly</td> <td>Discharge – prior to entering the Waikato River</td> <td>Total Phosphorus Total Kjeldahl Nitrogen Ammoniacal Nitrogen Biochemical Oxygen Demand Suspended solids Escherichia coli</td> </tr> </tbody> </table>	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	Yes  No  Yes	Datran data recording.  Non-Compliant UV dose. Maintaining an adequate UV dose to meet bacteriological consent limits has not always been possible with the high algal suspended solids Compliant Sampling Discharge quality. Samples are collected monthly and analysed for a range of water quality parameters.
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
	<p>Note: Sampling point for monthly physical samples will normally be immediately downstream from the UV equipment location on the wastewater treatment site.</p>		
19	<p>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.</p>	Yes	<p>Samples have been analysed in accordance with approved standards at recognised laboratories.</p>
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"> <li>(a) all data collected as required by condition 15 of this consent for 1 April to 31 March of the preceding year;</li> <li>(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;</li> <li>(c) a comparison of data with previously collected data identifying any emerging trends;</li> <li>(d) comment on compliance and any reasons for non-compliance or difficulties in achieving compliance with conditions 11 of this consent;</li> <li>(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;</li> <li>(f) report on and discuss any complaints received regarding the treatment and/or discharge of treated effluent; and</li> <li>(g) any other issues considered important by the consent holder.</li> </ul>	Yes	<p>This report will be forwarded to Environment Waikato and the groups specified in this condition.</p> <p>The data table annual summary attached shows the nutrient load discharge average monthly values for Total Nitrogen and Total Phosphorous to the Waikato River.</p>



	<b>Conditions</b>	<b>Comply Yes/No</b>	<b>Comments</b>
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"> <li>(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;</li> <li>(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;</li> <li>(c) The Chairman and Secretary of Mercer Rowing Club Incorporated, or persons to be nominated by the Mercer Rowing Club Incorporated.</li> <li>(d) The Manager, Ngati Naho Co-operative Society.</li> </ul>	Yes	The parties specified other than Environment Waikato have been advised of all cases where discharge outside consented times has been required due to wet weather flows.
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"> <li>(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;</li> <li>(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;</li> <li>(c) The Chairman and Secretary of Mercer Rowing Club Incorporated, or persons to be nominated by the Mercer Rowing Club Incorporated.</li> </ul>	No	The control system logging of pump run times has shown at times that the pumps started outside the prescribed period. This is not an alarmed condition and has not been reported as it occurred.

	<b>Conditions</b>	<b>Comply Yes/No</b>	<b>Comments</b>
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	Environment Waikato has been advised of instances of major non-compliance.



	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"> <li>(a) the date, time and duration of the event/incident that has resulted in a complaint;</li> <li>(b) any corrective action undertaken by the consent holder in response to the complaint including actions taken to prevent similar events in the future;</li> <li>(c) the location of the complainant when the event was detected;</li> <li>(d) the possible cause of the event;</li> <li>(e) the weather conditions and wind direction at the site when the odour event occurred.</li> </ul> <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 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		

	<b>Conditions</b>	<b>Comply Yes/No</b>	<b>Comments</b>
	<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"> <li>(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</li> <li>(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</li> <li>(c) to review the adequacy of and the necessity for monitoring undertaken by the consent holder.</li> </ul> <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 1 July 2010 – 30 June 2011

To discharge incidental odour contaminants to air from a wastewater treatment plant comprising Imhoff tank, 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"><li>(a) the frequency, intensity, duration, amount, effect and location of the effect(s) of the offensiveness of an odour; and/or</li><li>(b) receipt of complaints from neighbours or the public; and/or</li><li>(c) relevant written advice or a report from an Environmental Health Officer of a territorial authority or health authority.</li></ul>	Yes	No complaints with respect to odour have been received by the Waikato District Council during the 2010-2011 period.

## 107033 Meremere Wastewater Sewage Treatment Discharge 1 July 2010 – 30 June 2011

### 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> <p>a) detailed design drawings of the jet diffuser structure including methods used to anchor the structure to the river bank; and</p> <p>b) detailed plan showing the location of the pipeline route and location of the jet diffuser located on the bank of the river; and</p> <p>(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.</p>	Yes	<p>Examination of the diffuser in June 2010 shows it was not constructed as per the AEE. The high flows received at the wastewater treatment plant necessitated the removal of the outflow diffuser jet at the bank to allow more flow in June 2010. A plan to replace the structure as per the AEE has been developed and included with the forthcoming WWTP upgrade project. The diffuser has already been made and just requires installation.</p> <p>EW have been notified.</p>
13	<p>(e) The discharge structure shall be designed and constructed to ensure that as far as practicable local scour is avoided.</p>	Yes	<p>There has been no evidence of bank scour occurring.</p> <p>EW were notified.</p>