

| Licence Conditions | |
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| Proposed Condition Changes | Definitions |
| <p>Remove Condition 212-39</p> <p>AVERAGE SALINITY DISCHARGE LIMIT - 6 HOUR PERIOD</p> <p>If average salinity at any point 100 metres from the diffuser structure exceeds 1.3 PPT above ambient salinity for a six hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; and 2. take appropriate corrective action to manage salinity in the receiving environment. <p>Proposed Replacement Condition</p> <p>U-145</p> <p>SALINITY DISCHARGE LIMIT - 6 HOUR PERIOD If the average desalination outfall effluent discharge salinity exceeds the intake salinity by a factor of 2.1 for a six hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; and 2. take appropriate corrective action to manage salinity in the receiving environment forthwith. | |
| <p>Remove Condition 212-44</p> <p>AVERAGE SALINITY DISCHARGE LIMIT - 24 HOUR PERIOD</p> <p>If average salinity at any point 100 metres from the diffuser structure exceeds 1.3 PPT above ambient salinity for a 24 hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; and 2. stop all marine discharge of brine and desalination effluent from the desalination plant within six hours <p>Proposed Replacement Condition</p> <p>U-146</p> <p>SALINITY DISCHARGE LIMIT - 24 HOUR PERIOD If the average desalination outfall effluent discharge salinity exceeds the intake salinity by a factor of 2.1 for a 24 hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; 2. stop all discharge of desalination effluent from the desalination plant within six hours; and 3. not recommence discharge until approved in writing by the EPA. | |

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| <p>Proposed New Condition</p> <p>U-147</p> <p>OUTFALL HEAD LOSS - 24 HOUR PERIOD</p> <p>If the head loss across the outfall system drops below the minimum allowable head loss for a 24 hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; 2. stop all discharge of desalination effluent from the desalination plant within six hours; and 3. not recommence discharge until approved by the EPA. | <p>OUTFALL HEAD LOSS - 24 HOUR PERIOD</p> <p>“MINIMUM ALLOWABLE HEAD LOSS” means the head difference between the sea water and outfall de-aeration chamber being greater than or equal to (in [m]) $-8.57E-1 + 8.12E-3 x + 2.69E-5 x^2$ where x = Production [ML/d] and is the volume of fresh water produced in the desalination process.</p> |
| <p>Proposed New Condition</p> <p>U-148</p> <p>OUTFALL HEAD LOSS - 24 HOUR PERIOD</p> <p>If the head loss across the outfall system drops below the minimum allowable head loss for a 24 hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. notify the EPA within six hours; 2. stop all discharge of desalination effluent from the desalination plant within six hours; and 3. not recommence discharge until approved by the EPA. | |
| <p>Proposed New Condition</p> <p>U-149</p> <p>AVERAGE SALINITY DISCHARGE LIMIT</p> <p>If the average salinity measured at 100 metres from the diffuser structure exceeds 1.3 PPT above ambient salinity for a 24 hour period, then the Licensee must:</p> <ol style="list-style-type: none"> 1. undertake an investigation to determine the cause of the exceedence 2. provide to the satisfaction of the EPA and within 5 working days of the determination of the exceedence, a program to develop and submit a final investigation report. 3. in accordance with the program required by 2., provide a final investigation report to the satisfaction of the EPA which includes: <ul style="list-style-type: none"> 3.1. the outcomes of the investigation; 3.2. actions to be undertaken to ensure that a maximum 1.3ppt differential averaged over 24 hours is maintained at all times; 3.3. timeframes for the actions to be completed. 4. implement the actions as required by 3(b) within the approved timeframes upon approval in writing by the EPA. | <p>Average salinity is the salinity measured at ten minute intervals at MP2 or MP4 average over a 24 hour running period</p> |

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| <p>Remove Condition 305-627</p> <p>MONTHLY SALINITY MONITORING REPORT</p> <p>The Licensee must submit to the EPA results of all salinity monitoring for each month by the end of the following month.</p> <p>Proposed Replacement Condition</p> <p>U-150</p> <p>QUARTERLY SALINITY MONITORING REPORT</p> <p>The Licensee must submit results of all salinity monitoring, to the EPA according to the following schedule:</p> <ol style="list-style-type: none"> 1. all marine monitoring undertaken in January, February or March in any year by the end of May in that year; 2. all marine monitoring undertaken in April, May or June in any year by the end of August in that year; 3. all marine monitoring undertaken in July, August or September in any year by the end of November in that year; and 4. all marine monitoring undertaken in October, November or December in any year by the end of February in the following year. | |
| <p>Remove Condition 305-628</p> <p>QUARTERLY MARINE MONITORING REPORT</p> <p>The Licensee must submit results of all marine monitoring, other than salinity monitoring, to the EPA according to the following schedule:</p> <ol style="list-style-type: none"> 1. all marine monitoring undertaken in January, February or March in any year by the end of May in that year; 2. all marine monitoring undertaken in April, May or June in any year by the end of August in that year; 3. all marine monitoring undertaken in July, August or September in any year by the end of November in that year; and 4. all marine monitoring undertaken in October, November or December in any year by the end of February in the following year <p>Proposed Replacement Condition:</p> <p>MARINE MONITORING REPORT</p> <p>U-151</p> <p>MARINE MONITORING REPORT</p> <p>The Licensee must submit to the EPA by 31 March of each year all marine monitoring results, other than results of salinity monitoring for the preceding calendar year.</p> | |

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| <p>Remove Condition 212-40</p> <p>SEA WATER EXTRACTION LIMIT</p> <p>The Licensee must not extract more than 7.77 cubic metres of sea water per second from the marine environment.</p> <p>Proposed Replacement Condition</p> <p>U-152</p> <p>SEA WATER INTAKE VELOCITY</p> <p>The Licensee must ensure that the seawater intake velocity at the entry to the intake structure does not exceed 0.15 m/s at any time.</p> | |
| <p>Remove Condition 212-34</p> <p>OPERATIONAL ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN</p> <p>The Licensee must:</p> <ol style="list-style-type: none"> 1. prepare, maintain and implement an OEMMP which describes to the satisfaction of the EPA how the Licensee will comply with the Act and this licence; 2. provide a full copy of the OEMMP to the EPA on request; and 3. review the OEMMP annually. <p>Proposed Replacement Condition</p> <p>U-153</p> <p>OPERATIONAL ENVIRONMENTAL MANAGEMENT AND MONITORING PLAN The licensee must:</p> <ol style="list-style-type: none"> 1. revise the OEMMP to the satisfaction of the EPA to address the following: <ol style="list-style-type: none"> 1.1. methodologies for all monitoring required by conditions of this licence 1.2. methodologies to manage the discharge of plant effluent to meet the salinity discharge limits for conditions U-145 and U-146; 1.3. methodologies to manage the discharge of plant effluent to meet the outfall head loss requirements for conditions 147 and U-148; 1.4. methodologies to manage the intake of seawater into the plant to meet the intake velocity limits in accordance with condition U-152; and 2. submit the revised OEMMP to the EPA for approval by 30 April 2015; and 3. implement the revised OEMMP upon approval in writing by the EPA or any further revised OEMMP approved in writing by the EPA. | |
| <p>Remove Condition 305-626</p> <p>INDEPENDENT MARINE MONITORING REVIEW</p> | |

Licence Attachment to replace existing Attachment

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| Ambient Marine Ecological Monitoring | |
| Monitoring Type | Proposed Monitoring Condition |
| Subtidal Reef | Two surveys per year of benthic flora and fauna on the subtidal reef undertaken once every 3 years |
| Baited Remote Underwater Video | Two seasonal video fish traps to monitor local fish populations undertaken once every 3 years |
| Infrauna Survey | Two surveys per year of the meiofauna and macrofauna undertaken once every 3 years |
| Intake Monitoring | |
| Monitoring Type | Proposed Monitoring Condition |
| Seawater Characteristic | Measure conductivity, temperature, pH & DO of seawater intake every 10 minutes at Ambient MP1. |
| Seawater Characteristics | Analyse seawater quarterly for Biological Oxygen Demand, suspended solids, Total nitrogen (as N), Total phosphorus (as P), zinc, lead and copper. Sample is to be a 24-hour flow weighted sample and to be collected on the same day |
| Intake volume | Measure volume of seawater intake in ML daily. |
| Discharge Monitoring (outfall) | |
| Monitoring Type | Proposed Monitoring Condition |
| Discharge volume | Measure volume of outfall effluent discharge in ML daily. |
| Discharge Characteristics | Measure conductivity, temperature, DO, pH and Cl ₂ (or alternatively ORP) of whole of effluent discharge every 10 minutes. Must be measured for each stream separately and reported as separate streams and proportionately flow weighted. |
| Discharge Characteristics | Analyse quarterly for Biological Oxygen Demand, suspended solids, Total nitrogen (as N), Total phosphorus (as P), zinc, lead and copper. Sample is to be a 24-hour flow weighted sample and to be collected on the same day |
| Receiving Environment Monitoring | |
| Monitoring Type | Proposed Monitoring Condition |
| Salinity (100 Metres) | Measure conductivity and temperature of seawater at MP2 & MP4 every 10 minutes. |