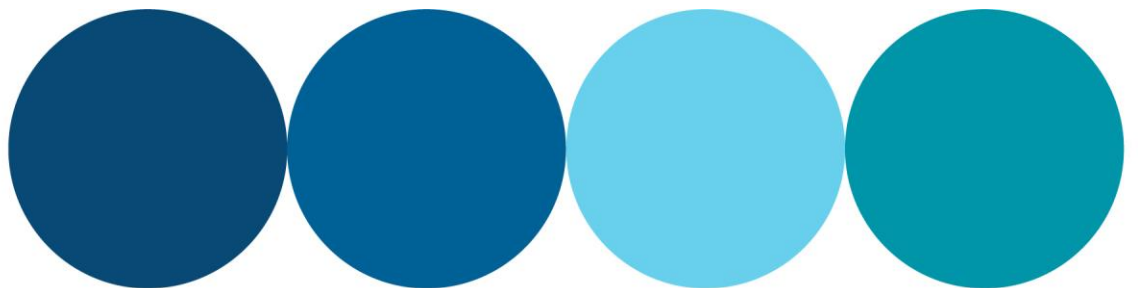


Southern Seawater Desalination Plant

Compliance Assessment Report

14 April 2022 – 13 April 2023





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Glossary and definition of terms

Actual Dilution	The Actual Dilution achieved at the SSDP LEPA boundary is calculated from the results of the Diffuser Performance Monitoring Program. The method to calculate the Actual Dilution is provided in Section 3.3.3 of the DPMP.
Bottom Saline Layer	The bottom saline layer is the whole bottom saline layer, a layer of higher salinity to that of the background salinity. The layer commences at the first salinity reading above the background salinity.
CAR	Compliance and Assessment Report (formerly Performance Compliance Report)
DEE	Department of Energy and Environment (CTH) (formerly Department of the Environment and Department of Environment, Water, Heritage and Arts)
Desalination Effluent	Desalination effluent consists of the brine stream from the RO system, neutralised clean-in-place (CIP) streams and wastewater originated from the backwash of the membrane filters and seawater strainers. The desalination effluent is discharged to the marine environment via a 320m diffuser array.
DPMP	Diffuser Performance Monitoring Program (Revision D, 2015)
DO	Dissolved Oxygen
DOMP	Dissolved Oxygen Monitoring Program
DWER	Department of Water and Environmental Regulation (a department which combined the previous departments of Department of Environmental Regulation (DER) (formerly Department of Environment and Conservation (DEC)), Office of Environmental Protection Authority (OEPA) and Department of Water (DoW))
Environmental Quality Objectives	The Environmental Quality Objectives identified by DWER and specified in MS792 Schedule 1 for the marine environment surrounding the SSDP ocean diffuser.
EP Act	<i>Environmental Protection Act 1986 (WA)</i>
EPA	Environmental Protection Authority
EPBC Act	<i>Environment Protection and Biodiversity Conservation Act 1999 (CTH)</i>
Full Production	Full Production of the SSDP is the combined Stage 1 and Stage 2 operations, which produces 100GL of drinking water per year.
GL	Gigalitres
IWSS	Integrated Water Supply Scheme
LEPA	Low Ecological Protection Area
Marine Environment Monitoring	Environmental monitoring undertaken in the marine environment as per the MEMP, DOMP, DPMP and WETMP.



MEMP	Marine Environmental Monitoring Program, including Discharge Water Quality Monitoring and Benthic Health Monitoring.
MS792	Ministerial Statement 792
OEMF	SSDP Operation Environmental Management Framework developed to address MS792 requirements.
OMEMP	Operational Marine Environment Monitoring Program
ppt	Parts per thousand
Recirculation	Seawater entering through the seawater intake pipelines is recirculated directly back into the desalination effluent diffuser pipeline to increase on-shore dilution prior to diffusing into the marine environment.
RMP	Revegetation Management Plan
RO	Reverse Osmosis
SSDP	Southern Seawater Desalination Plant
SSWA	Southern Seawater Alliance
Target Dilution	The minimum number of dilutions required to meet the ANZECC (2000) 99% species protection trigger at the boundary of the LEPA as per the latest valid WET testing results provided by the WET testing consultant. The 99% species protection trigger is theoretical or statistically inferred based on the results of sub-lethal toxicity testing and species sensitivity distributions.
WET	Whole Effluent Toxicity
WETMP	Whole Effluent Toxicity Monitoring Program
Worst Case Dilution	The Worst Case Dilution achieved at the SSDP LEPA boundary can be calculated from the Actual Dilution results of the Diffuser Performance Monitoring Program (salinity monitoring). If the number of marine salinity monitoring events (n) is less than 20, then the worst dilution result calculated for all of the salinity monitoring events in the reporting period will be used to represent the Worst Case Dilution. If the number of marine salinity monitoring events (n) is greater than 20 then the lower 5 th percentile of the dilution results calculated for all of the salinity monitoring events in the reporting period will be used to represent the Worst Case Dilution.



1. Introduction

The Southern Seawater Desalination Plant (SSDP) consists of offshore marine infrastructure (intake and diffuser systems) and onshore infrastructure (treatment and storage infrastructure) on Taranto Road, Binningup, WA. Potable water generated at SSDP is supplied to Water Corporation's Integrated Water Supply Scheme (IWSS) via a storage tank facility near Harvey.

The SSDP was designed and constructed in two stages, each capable of producing 50 GL of water annually. Stage 1 of the plant began commercial operations on 12 March 2012 and Stage 2 was commissioned on 17 January 2014. The combined plant has a nameplate capacity of producing 100 GL of drinking water annually.

1.1 Environmental Approvals

In July 2007, Water Corporation referred the proposal to construct and operate the SSDP to the Minister for Environment for assessment under Section 38 of the *Environmental Protection Act 1986* (EP Act). It was formally assessed at the level of Public Environmental Review under the State process. The proposal was approved by the Minister for Environment, with Ministerial Statement 792 (MS792) published on 14 April 2009. The approval acknowledged that construction and operation of the desalination plant will have an impact on the marine and terrestrial environments.

The SSDP proposal was referred to DEE to determine whether the proposal constituted a Controlled Action requiring assessment under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). DEE deemed that the SSDP had the potential to impact on matters of National Environmental Significance protected under the EPBC Act; in particular, threatened species and listed migratory species. A Commonwealth Public Environmental Review was carried out by DEE to enable a full assessment of the proposal. DEE granted conditional environmental approval to the SSDP on 24 June 2009 (Approval EPBC 2008/4173).

1.2 Purpose

In accordance with MS792 Condition 4-6, Water Corporation is required to "... submit a compliance assessment report annually from the date of issue of the Implementation Statement No. 792 addressing the previous twelve-month period or as agreed by the CEO of the Department of Environment and Conservation.

The compliance assessment report shall:

- 1. Be endorsed by the proponent's Managing Director or a person, approved in writing by the Department of Environment and Conservation, delegated to sign on the Managing Director's behalf;*
- 2. Include a statement as to whether the proponent has complied with the conditions Review;*
- 3. Identify all potential non-compliances and describe corrective and preventative actions taken;*



4. *Be made publicly available in accordance with the approved compliance assessment plan; and*
5. *Indicate any proposed changes to the compliance assessment plan required by condition 4-1.”*

Water Corporation developed a Compliance Assessment Plan (version C, 26 February 2010) as required under MS792 Condition 4.2 and to address the requirements of MS792 Condition 4-6 (see Appendix 2). The Compliance Assessment Plan (CAP) was endorsed by DWER in a letter dated 18 March 2010 (DEC Reference 11361). The CAP specifies that compliance reports will be submitted to the CEO of DWER annually in the form of Compliance and Assessment Report (CAR) and meets the requirements of MS792 Condition 4-6. As stated in the CAP, CARs will be submitted within two months of the publication date of MS792 (i.e., two months from 14 April each year).

The CAP notes that some of the conditions in MS792 relate to construction and pre-commissioning only. However, annual reporting will continue while Conditions under MS792 remain active. Specifically, active Conditions include aspects of marine monitoring under Condition 6, and greenhouse gas management and mitigation under Condition 11. These are discussed further in the following sections.

This CAR has been prepared to comply with MS792 4-6 and the CAP. This report covers the reporting period 14 April 2022 to 13 April 2023.

This CAR will be made publicly available in accordance with the CAP. It will be published on the Water Corporation’s website: <https://www.watercorporation.com.au/water-supply/our-water-sources/desalination/southern-seawater-desalination-plant>



2. Current status

2.1 Monitoring requirements

All formal monitoring programs required under MS792 (marine monitoring under Condition 6 and vegetation rehabilitation under Condition 9) have been completed and closed. Further detail on the MS792 requirements and evidence of completion is provided in Table 2.

The only Condition under MS792 which requires ongoing monitoring (outside the formal monitoring programs that have been completed and closed) to maintain and demonstrate continual compliance is Condition 6-1 to:

"... ensure the Low Ecological Protection Area does not exceed 100 metres by 600 metres (50 metres either side of the diffuser array)."

An Operational Marine Environment Monitoring Program (version A, 23 July 2020, OMEMP) was prepared to ensure SSDP continues to maintain the Low Ecological Protection Area (LEPA) by achieving key Environmental Quality Objectives (EQO) as stated in MS792 Schedule 2. The OMEMP is a voluntary, non-regulated document developed to streamline a structured monitoring program (based on the outcomes of previous Monitoring Programs which are now completed and closed) that enables identification of any potential impacts on the EQO.

2.2 Active requirements

The remaining active Conditions of MS792 relate to greenhouse gas management and mitigation (Condition 11). Water Corporation acknowledges the ongoing non-compliance with the greenhouse gas emission requirements stated in Condition 11-1 and Conditions 11-2. Further information is provided in section 3.1 and Table 2.



3. Compliance status

The status of compliance against each MS792 Condition is provided in Table 2.

3.1 Non-conformances and non-compliances

The SSDP was non-compliant with two MS792 Conditions during the reporting period; Condition 11-1 and Condition 11-2.

Condition 11-1

"... shall ensure that all electricity used by the plant is purchased from renewable sources, and the associated Renewable Energy Certificates are surrendered."

Condition 11-2

"In the event that condition 11-1 cannot be met, the Proponent shall offset the quantity of greenhouse gas emissions produced by the amount of electricity which is sourced from non-renewable sources by purchasing carbon offset credits from accredited third parties, or otherwise, in a manner approved by the CEO of the Department of Environment and Conservation."

Water Corporation has received final approval of a Greenhouse Gas Management Plan from DWER on 20th April 2023. The Greenhouse Gas Management Plan outlines how compliance will be met on an annual basis from 2024-25, and how the legacy offset deficits up to 2024-25 will be fully redressed and offsets consistently met in the long-term (from 2029 onwards).

Water Corporation will continue to communication with DWER on progress towards achieving the greenhouse gas emission requirements for SSDP.

3.2 Audits

The audit table contained in Table 2 outlines the results of internal audits of SSDP operations against the requirements of MS792 conducted during the reporting year.

3.3 Complaints register

Any complaints received are recorded in Grange, the Water Corporation's management system.

One complaint was received during the reporting period on 31 December 2022. It was a noise complaint from a resident in Binningup regarding a constant low humming/vibration that has been getting louder lately and was now keeping him awake at night. The complainant believed that SSDP was the cause of the noise.

Routine noise monitoring along the boundary of SSDP was carried out on 19 December 2022 and demonstrated noise volumes below Regulatory levels. Follow-up noise monitoring was carried out along the southern boundary of SSDP, directly outside buildings that contain noise generating equipment on 4 January 2023 in response to the complaint. Results confirmed that noise volumes were below Regulatory levels.



A site visit with the complainant at their property was attempted but no one was home. While there, it was noticed that the caravan park (directly behind the complainant's property) had some noisy equipment. Follow-up contact with the complainant was made via phone and email. The complainant later advised that he believed a pool pump at the caravan park was the cause, not SSDP. No further action was required.



4. Environmental monitoring and research

All environmental monitoring programs required under MS792 have been completed and closed. Further detail on the MS792 requirements and evidence of completion is provided in Table 2.

However, as mentioned in section 2.1, a range of environmental monitoring, as outlined in the OMEMP, was carried out during the 2022-23 reporting period to provide ongoing confidence in achieving the EQOs and maintaining the LEPA boundary including:

- Discharge effluent monitoring
 - annual Whole Effluent Toxicity (WET) testing
 - biannual water quality LEPA parameter suite
 - daily key water quality parameters, volume, and flow rate
 - continuous salinity, temperature, DO, pH, and turbidity
- Seawater intake monitoring
 - continuous salinity monitoring
- Seawater monitoring at LEPA and assessment sites
 - biennial salinity, temperature, DO, pH, and turbidity
- Verification of diffuser performance through dilution assessment of seawater salinity monitoring data from the LEPA boundary



5. Stakeholder consultation

Specific groups that were consulted during the 2022-23 reporting period include:

Community Groups

Community Reference Group (represents seven community groups)

Government Agencies (State and Federal)

Department of Water and Environment Regulation (DWER)

Department of Biodiversity, Conservation and Attractions (DBCA)

Department of Primary Industries and Regional Development (DPIRD)

Local Government

Shire of Harvey

Committees

Nil



6. Condition audit table

The compliance status against each of the conditions in MS792 is provided in Table 2 below. A description of the status terminology used in Table 2 is provided in Table 1.

Table 1 Status description used in Condition audit table

Status	Acronym	Criteria
Compliant	C	Implementation of the proposal has been carried out in accordance with the requirements of the audit element.
Completed	CLD	A requirement with a finite period of application has been satisfactorily completed.
Not Required at this Stage	NR	The requirements of this audit element were not triggered during the reporting period.
Potential Non-Compliant	PNC	Possible or likely failure to meet the requirements of the audit element.
Non-Compliant	NC	Implementation of the proposal has not been carried out in accordance with the requirements of the audit element.
In Process	IP	Where an audit element requires a management or monitoring plan to be submitted to the OEPA or another government agency for approval, the submission has been made and no further information or changes have been requested by the OEPA or other government agency for the approval is still pending.
Not Applicable	NA	Requirements which do not require specific action by the proponent. For example, requirements which refer to action by the regulator (and are 'Procedure' requirements as described below in the notes of Table 4).

**Table 2 Condition audit table****Note:**

- Phases that apply in this table = **Pre-Construction, Construction, Post-Construction, Operation, Decommissioning, Overall (several phases)**
- This audit table is a summary and timetable of conditions and commitments applying to this project. Refer to the Minister's Statement for full detail/precise wording of individual elements.
- Code prefixes: M = Minister's condition; P = Proponent's commitment; A = Audit specification; N = Procedure.
- Any elements with status = "Audited by Proponent only" are legally binding but are not required to be addressed specifically in compliance reports, if complied with.
- Acronym's list: Min for Env = Minister for the Environment; CEO = Chief Executive Officer of DER; DER = Department of Environment Regulation; DMP = Department of Mining and Petroleum; OEPA = Office of the Environmental Protection Authority; DoH = Department of Health; DoW = Department of Water.

Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
792:M1-1	Proposal Implementation	The Proponent shall implement the proposal as assessed by the Environmental Protection Authority and described in schedule 1 and 2 of this statement subject to the conditions and procedures of this statement.	Annual Performance Compliance Reports (ref Condition M4-6 demonstrating implementation submitted; to be submitted by 14 June each year.	Evidence is provided in the annual PCRs regarding the ongoing implementation of the proposal.	Overall	Ongoing	C
792:M2-1	Proponent Nomination and Contact Details	The Proponent for the time being nominated by the Minister for the Environment under sections 38(6) or 38(7) of the <i>Environmental Protection Act 1986</i> is responsible for the implementation of the proposal.	Annual Performance Compliance Reports (ref Condition M4-6) identifying the name of the responsible Proponent submitted; the first submitted by 14 June 2010.	The Proponent is the Water Corporation, and this has not changed over this reporting period.	Overall	Ongoing	C
792:M2-2	Proponent Nomination and Contact Details	The Proponent shall notify the Chief Executive Officer (CEO) of the Department of Environment Regulation of any change of the name and address of the Proponent for the serving of notices or other correspondence within 30 days of such change.	Notification advising changes submitted.	The Proponent is the Water Corporation, and this has not changed over this reporting period.	Overall	Within 30 days of such change	NR
792:M3-1	Time Limit of Authorisation	The authorisation to implement the proposal provided for in this statement shall lapse and be void within five years after the date of this statement if the proposal to which this statement relates is not substantially commenced.	First Performance Compliance Report (ref Condition M4-6) demonstrating substantial commencement submitted.	The proposal was substantially commenced during the first and second PCR reporting period (14 April 2010 to 13 April 2011). Both PCRs and the OEPA acknowledgement of receipt of the first and second PCR (A311933 dated 23 June 2010 and A400433 dated 31 May 2011, respectively) show compliance. Evidence of compliance against this condition was provided in the 14 April 2013 to 13 April 2014 PCR and no further evidence is required.	Overall	On or before 21 May 2014	CLD
792:M3-2	Time Limit of Authorisation	The Proponent shall provide the CEO of the Department of Environment Regulation with written evidence which demonstrates that the proposal has substantially commenced on or before the expiration of five years from the date of this statement.	First Performance Compliance Report (ref Condition M4-6) demonstrating substantial commencement submitted.	The proposal was substantially commenced during the first and second PCR reporting period (14 April 2010 to 13 April 2011). Both PCRs and the OEPA acknowledgement of receipt of the first and second PCR (A311933 dated 23 June 2010 and A400433 dated 31 May 2011, respectively) show compliance. Evidence of compliance against this condition was provided in the 14 April 2013 to 13 April 2014 PCR and no further evidence is required.	Overall	On or before 14 April 2014	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
792:M4-1	Compliance Reporting	The Proponent shall prepare and maintain a compliance assessment plan to the satisfaction of the CEO of the Department of Environment and Conservation.	Compliance Assessment Plan, submitted by 14 October 2009 (ref Condition M4-2).	SSDP Compliance Assessment Plan (Water Corporation, 26 February 2010), endorsed by the DER (previously DEC) in letter dated 18/03/2010 (reference DEC11361). The Compliance Assessment Plan submitted and approved by the DER in 2010 is still currently implemented at the SSDP. Evidence of compliance against this condition was provided in the 14 April 2013 to 13 April 2014 PCR and no further evidence is required.	Overall	Ongoing	C
792:M4-2	Compliance Reporting	The Proponent shall submit to the CEO of the Department of Environment and Conservation, the compliance assessment plan required by Condition 1 at least 6 months prior to the first compliance report required by Condition 6. The compliance assessment plan shall indicate: <ol style="list-style-type: none"> 1. frequency of compliance reporting; 2. approach and timing of compliance assessments; 3. retention of compliance assessments; 4. reporting of potential non-compliances and corrective actions taken; 5. table of contents of compliance reports; and 6. public availability of compliance reports. 	Compliance Assessment Plan (ref Condition M4-1) indicating items 1-6 submitted.	SSDP Compliance Assessment Plan (Water Corporation, 26 February 2010), endorsed by the DEC in letter dated 18/03/2010 (reference DEC11361). Evidence of compliance against this condition was provided in the 14 April 2013 to 13 April 2014 PCR and no further evidence is required.	Overall	By 14 October 2009	CLD
792:M4-3	Compliance Reporting	The Proponent shall assess compliance with conditions in accordance with the compliance assessment plan required by Condition 1.	Performance Compliance Report consistent with Condition M4-2 undertaken.	Evidence is provided in the annual PCRs providing compliance with conditions in accordance with the compliance assessment plan.	Overall	Ongoing	C
792:M4-4	Compliance Reporting	The Proponent shall retain reports of all compliance assessments described in the compliance assessment plan required by Condition 1 and shall make those reports available when requested by the CEO of the Department of Environment and Conservation.	Reports pertaining to assessments of compliance (ref Condition M4-2) registered in document control system.	PCRs are retained and are made available on request.	Overall	Ongoing	C
792:M4-5	Compliance Reporting	The Proponent shall advise the CEO of the Department of Environment and Conservation of any potential non-compliance as soon as practicable.	Notifications advising potential non-compliances submitted.	Notifications in writing (email) as required. Also, will be reported in the CAR. Aside from greenhouse gas commitments, there were no non-compliances or potential non-compliances during the reporting year.	Overall	As soon as practicable.	C
792:M4-6	Compliance Reporting	The Proponent shall submit a compliance assessment report annually from the date of issue of the Implementation Statement No. 792 addressing the previous twelve month period or as agreed by the CEO of the Department of Environment and Conservation. The compliance assessment report shall: <ol style="list-style-type: none"> 1. be endorsed by the Proponent's Managing Director or a person, approved in writing by the Department of Environment and 	Annual compliance assessment reports covering items 1-5 submitted.	Evidence is provided in the annual PCRs providing compliance with conditions. PCRs will be prepared in accordance with the SSDP Compliance Assessment Plan (Water Corporation, 26 February 2010), endorsed by the DEC in letter dated 18/03/2010 (reference DEC11361).	Overall	Annually, by 14 June each year	C



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
		<p>Conservation, delegated to sign on the Managing Director’s behalf;</p> <ol style="list-style-type: none"> include a statement as to whether the Proponent has complied with the conditions Review; identify all potential non-compliances and describe corrective and preventative actions taken; be made publicly available in accordance with the approved compliance assessment plan; and indicate any proposed changes to the compliance assessment plan required by Condition 1. 					
792:M5-1	Performance Review and Reporting	<p>The Proponent shall submit to the CEO of the Department of Environment and Conservation Performance Review Reports at the conclusion of the second, fourth and sixth years after the commencement of operation and then, at such intervals as the CEO of the Department of Environment and Conservation may regard as reasonable, which address:</p> <ol style="list-style-type: none"> the major environmental risks and impacts; the performance objectives, standards and criteria related to these; the success of risk reduction/impact mitigation measures and results of monitoring related to the management of the major risks and impacts; the level of progress in the achievement of best practice environmental performance, including industry benchmarking, and the use of best available technology where practicable; and improvements gained in environmental management which could be applied to this and other similar projects. 	Performance reports covering items 1-3 submitted.	<p>An understanding was reached during initial and verbal communications by Water Corporation with OEPA Hugh Lance (11/06/14), followed by email correspondence that; subsequent PRR and PCR reports have a submission due date of 14 June in the same year that the reporting period is completed.</p> <p>The first Performance Review Report (PRR) for the 2012-2014 period was submitted in July 2014 (<i>Note: the reporting date had incorrectly been sated as June 2014 in previous PCR reports</i>).</p> <p>The second PRR for the 2014 -2016 period was submitted to the OEPA with a cover letter dated 13 June 2016.</p> <p>The third and final PRR for the period 2016 - 2018 was submitted to the OEPA with a cover letter dated 14 June 2018.</p>	Operation	Two, four and six years after commencement of operation; then at intervals regarded as reasonable by CEO of DER.	CLD
792:M6-1	Water Quality and Marine Biota	The Proponent shall ensure the Low Ecological Protection Area does not exceed 100 metres by 600 metres (50 metres either side of the diffuser array) as shown in Figure 1, schedule 2.	Assessments of compliance consistent with condition M4-2 undertaken.	<p>Evidence provided in the last five annual Marine Environment Monitoring Annual Reports</p> <p>The final results of the five-year Discharge Water Quality Monitoring Program was provided in a completion report (SSDP Discharge Water Quality Monitoring Completion Report) on 10 April 2018.</p> <p>To ensure water quality requirements at the LEPA are met:</p> <ul style="list-style-type: none"> SSDP has continuous monitoring of key water quality parameters on the seawater intake and outfall; and Biannual monitoring of key water quality parameters is undertaken at LEPA boundary and marine reference sites. 	Operation	Ongoing	C
792:M6-2	Water Quality and Marine Biota	To achieve the Environmental Quality Objectives (EQOs) established by the Environmental Protection Authority (schedule 2) for the surrounding marine environment, including the Low Ecological Protection Area/discharge zone, the Proponent shall prepare and implement a Marine Environment Monitoring Program to the satisfaction of the Chairman of the Environmental Protection Authority	Marine Environment Monitoring Program (MEMP) covering items 1-6 submitted.	(as follows)			



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
		on the advice of the CEO of the Department of Environment and Conservation. The Marine Environment Monitoring Program shall:					
792:M6-2-1		1. prior to discharges to the marine environment, identify the chemicals and pH present in the pressure test and disinfection water to be discharged during construction and operation, and establish its toxicity to freshwater and marine environments consistent with the recommended approaches in ANZECC/ARMCANZ 2000*;		The Marine Environmental Monitoring Program was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402). Evidence of compliance was provided in a previous PCR (14 April 2009 to 13 April 2010). No further evidence of compliance is required.	Construction	Prior to discharges to the marine environment.	CLD
792:M6-2-2		2. prior to discharges to the marine environment, identify the discharge point and rate of discharge for the pressure test and disinfection water and, based on the levels of ecological protection to be achieved in the marine environment (see schedule 2) and a 95% species protection in the Harvey Main Drain, the predicted zones of mortality, effect (but not mortality) and influence (i.e., above background), as well as the rate of recovery;		The Marine Environmental Monitoring Program was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DER11402). Evidence of compliance was provided in a previous PCR (14 April 2009 to 13 April 2010). No further evidence of compliance is required.	Construction	Prior to discharges to the marine environment.	CLD
792:M6-2-3		3. establish existing benthic community composition and health prior to marine construction and then monitor benthic community composition and health annually after construction to determine impact and recovery;		The mapping and health surveys of the baseline existing benthic community performed by BMT Oceanica (Binningup Desalination Plant Binningup Habitat Mapping FINAL July 2008, and Southern Seawater Desalination Plant (SSDP) baseline habitat health monitoring Data Report May 2009) was deemed to satisfy condition 6-2(3) by the DER (previously DEC) in letter dated 06/11/2009 (reference DEC11402). The first benthic monitoring report for stage 1 operations was completed in June 2012. Evidence of baseline benthic mapping. DER approval and previous benthic reports (2012, 2013) provided in 2013-14 PCR and no further evidence required. The fourth annual benthic monitoring event for operations was completed in May 2015, with results provided to the OEPA on 17 September 2015. The fifth and final annual benthic monitoring event for operations was completed in May 2016 with results provided to the OEPA on 4 November 2016 (Letter to OEPA Submission of 2016 Seagrass Monitoring and Investigation Reports). The MEMP specifies a five-year annual benthic monitoring program. The five years of annual benthic monitoring has been completed. Note – Due to declines in seagrass shoot density at impact and southern reference sites, MAFRL and Oceanica were engaged to complete a proactive investigation into seagrass health in 2016. In addition, a proactive three-year annual Seagrass health monitoring program from 2017 – 2019 was implemented.	Construction and Operation	Prior to marine construction; then annually for the specified MEMP implementation timeframe.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
				<p>The first year of annual monitoring was completed in January 2017 with results provided to the OEPA with a cover letter dated 20 April 2017. The second year of monitoring was conducted in February 2018 with the results sent to the OEPA section of DWER along with a cover letter dated 13 July 2018. The Final year of the program was completed in February 2019 and the results were sent along with a cover letter dated 09 October 2019.</p> <p>The DWER confirmed Condition 6-2-3 (and associated Benthic Monitoring Programs) has been completed as part of a Compliance Audit (conducted by DWER) that was provided to the Water Corporation along with a cover letter dated 30 July 2020.</p>			
792:M6-2-4		4. prior to discharges to the marine environment, identify environmental quality indicators and associated “trigger” levels, based on the guidelines and recommended approaches in ANZECC/ARMCANZ 2000* and its updates, for assessing the performance of the discharges (with the exception of salinity where the agreed trigger levels are 1 parts per thousand (ppt) salinity increase above background 95% of the time and not exceeding an increase of 1.3 ppt above background at the boundary of the Low Ecological Protection Area) in meeting the EQOs, (see schedule 2);		<p>The Marine Environmental Monitoring Program was deemed complete by the OEPA for all elements of condition 6-2 in letter dated 23/02/2010 (reference DER11402).</p> <p>Evidence of compliance was provided in a previous PCR (14 April 2009-13 April 2010). No further evidence of compliance is required.</p>	Construction	Prior to discharges to the marine environment.	CLD
792:M6-2-5		5. prior to discharges to the marine environment, design and employ protocols and schedules for reporting performance against the EQOs using the environmental quality “trigger” levels for discharges identified in condition 6-2-4 and the salinity trigger level of not exceeding 1 ppt salinity increase 95% of the time and never exceeding 1.3 ppt at the boundary of the Low Ecological Protection Area; and		<p>The Marine Environmental Monitoring Program was deemed complete by the OEPA for all elements of condition 6.2 in letter dated 23/02/2010 (reference DEC11402).</p> <p>Evidence of compliance was provided in a previous PCR (14 April 2009 to 13 April 2010). No further evidence of compliance is required.</p>	Construction	Prior to discharges to the marine environment.	CLD
792:M6-2-6		6. specify that monitoring shall be conducted for twelve months following completion of commissioning (commissioning shall not exceed six months) and twelve months following the initiation of full production (according to design specifications). * - Australian and New Zealand Guidelines for Fresh and Marine Water Quality, ANZECC/ARMCANZ, 2000.		<p>The Marine Environmental Monitoring Program was deemed complete by the OEPA for all elements of condition 6-2 in letter dated 23/02/2010 (reference DEC11402).</p> <p>The 12-month monitoring period following Stage 1 completion was completed in March 2013. The 12-month monitoring period following Stage 2 completion was completed in January 2015. As a result, Water Corporation has fulfilled the requirements of 6-2-6. However, condition 16 of Commonwealth approval EPBC2008/4173 requires the MEMP to be undertaken for a period of five (5) years following the commencement of operation of the desalination plant. The five-year period was completed at the end of 2016.</p>	Construction and Operation	Prior to discharges to the marine environment.	CLD
792:M6-3	Water Quality and Marine Biota	The Proponent shall submit the results of the Marine Environment Monitoring Program, required by condition 6-2, to the CEO of the Department of Environment and Conservation within three months following of the finalisation of each element.	Results from MEMP elements (ref condition M6-2) submitted.	<p>The Marine Environment Monitoring Program monitoring conducted during the period includes:</p> <p>In addition to the five-year benthic monitoring program, which was completed in 2016, an additional three-year annual Seagrass Monitoring Program commenced in 2017. The final year of the three-</p>	Operation	Within 3 months following finalisation of each element.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
				year Seagrass Health Monitoring Program was conducted in February 2019. The results were sent to DWER – EPA Services along with a cover letter dated 09/10/2019.			
792:M6-4	Water Quality and Marine Biota	If the Marine Environment Monitoring Program required in condition 6-2 demonstrates that the environmental quality “trigger” levels (as determined through condition 6-2) are not met, the Proponent shall immediately report to the CEO of the Department of Environment and Conservation with the remedial management and/or preventative actions to be implemented.	Notifications advising that MEMP is demonstrating that environmental quality trigger levels (ref condition M6-2) not met and actions to be implemented submitted.	<p>The final samplings of the five-year Discharge Water Quality Monitoring Program were taken in the 2017-18 reporting period. There were no calculated contaminant concentrations at the LEPA boundary that were above trigger levels; except on occasions where the background seawater concentration was already above trigger levels. In all cases where the calculated contaminant concentrations at the LEPA boundary were higher than the trigger levels; the calculated concentrations were within 5% of the seawater sample concentration.</p> <p>The final results of the five-year Discharge Water Quality Monitoring Program were provided in a completion report along with a cover letter dated 10 April 2018.</p>	Operation	Immediately after becoming aware trigger value not met.	CLD
792:M6-5	Water Quality and Marine Biota	<p>The Proponent shall monitor dissolved oxygen levels at least weekly, either by deploying data loggers or by hand, at sites agreed by the CEO of the Department of Environment and Conservation to determine whether the “trigger” values are being achieved, for a period of 12 months immediately following:</p> <ul style="list-style-type: none"> • Completion of commissioning phase or six months from commencement of the commissioning phase, whichever is sooner; and • The initiation of full production (according to design specifications). 	Dissolved oxygen monitoring program submitted and monitoring re trigger values implemented.	<p>The Dissolved Oxygen Monitoring Program commenced on 29 December 2011.</p> <p>Weekly monitoring of oxygen for 12 months post Stage 1 completion was completed in March 2013 and provided as part of the Marine Environmental Monitoring Annual Report for the period 12 April 2012 to 26 April 2013.</p> <p>Weekly monitoring of oxygen for the 12 months post Stage 2 completion was completed on 17 January 2015 and provided as part of the Marine Environmental Monitoring Annual Report for the period 13 January 2014 to 18 January 2015.</p> <p>Water Corporation submitted evidence of the completion of conditions 6-5, 6-6 and 6-7 to the OEPA in 2015. OEPA acknowledged that Water Corporation met 6-5, 6-6 and 6-7 in a letter dated 21 October 2015. Water Corporation ceased weekly dissolved oxygen monitoring in response to this letter.</p>	Operation	<p>For 12-months immediately following:</p> <ul style="list-style-type: none"> • Completion of commissioning phase (or 6-months from commencement of commissioning phase, whichever is sooner); and • Initiation of full production (according to design specifications). 	CLD
792:M6-6	Water Quality and Marine Biota	The Proponent shall report the results of the dissolved oxygen monitoring required in condition 6-5 to the CEO of the Department of Environment and Conservation within three months following the finalisation of each twelve-month monitoring period as outlined in condition 6-5.	Results of dissolved oxygen monitoring (ref condition M6-5) reported.	<p>Weekly monitoring of oxygen for the 12 months post Stage 1 completion was completed in March 2013 and provided as part of the Marine Environmental Monitoring Annual Report for the period 12 April 2012 to 26 April 2013.</p> <p>Weekly monitoring of oxygen for the 12 months post Stage 2 completion was completed on 17 January 2015 and provided as part of the Marine Environmental Monitoring Annual Report for the period 13 January 2014 to 18 January 2015.</p> <p>Water Corporation submitted evidence of the completion of conditions 6-5, 6-6 and 6-7 to the OEPA in 2015. OEPA acknowledged that Water Corporation met 6-5, 6-6 and 6-7 in a letter dated 21 October 2015. Water Corporation ceased weekly dissolved oxygen monitoring in response to this letter.</p>	Operation	Within 3 months following the finalisation of each 12-month period (ref condition M6.5).	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
792:M6-7	Water Quality and Marine Biota	If the dissolved oxygen concentrations as measured according to condition 6-5 fall below 60% saturation at the boundary of the Low Ecological Protection Area, the Proponent shall, within twenty-four hours, report to the CEO of the Department of Environment and Conservation and provide management measures which will be implemented to minimise any potential effects of the discharge.	Notifications advising low dissolved oxygen and actions to be implemented submitted.	No trigger level breaches have occurred for dissolved oxygen since monitoring commenced on 29 December 2011. Water Corporation submitted evidence of the completion of conditions 6-5, 6-6 and 6-7 to the OEPA in 2015. OEPA acknowledged that Water Corporation met 6-5, 6-6 and 6-7 in a letter dated 21 October 2015. Water Corporation ceased weekly dissolved oxygen monitoring in response to this letter.	Operation	Within 24-hours of becoming aware.	CLD
792:M6-8	Water Quality and Marine Biota	The Proponent shall verify diffuser performance in terms of achieving the required number of initial dilutions under a range of flow rates, low energy/calm meteorological and sea-state conditions to achieve a high level of ecosystem protection (99% species protection as defined by ANZECC/ARMCANZ 2000* for toxicants and 1 ppt 95% of the time for salinity) at the edge of the Low Ecological Protection Area (i.e. 50 metres either side of the diffuser array) for a period of 12 months immediately following: <ul style="list-style-type: none"> Completion of commissioning phase or six months from commencement of the commissioning phase, whichever is sooner; and The initiation of full production (according to design specifications). <p>* Australian and New Zealand Guidelines for Fresh and Marine Water Quality, ANZECC/ARMCANZ, 2000</p>	Diffuser performance monitoring program being implemented. For verification purposes.	Diffuser Performance Monitoring Program has been developed and implemented for operation of the plant. Measurements of salinity levels and dilution assessment for stage 1 operations commenced on 17 April 2012 for 12 months. Full Production operations (stage 1 and stage 2) commenced on 17 January 2014 and the 12-month monitoring period for measurement of salinity levels and dilution assessment was completed on 17 January 2015. The results of Full Production diffuser assessment were provided to the OEPA in the DPMP and WETMP Completion Report on 18 December 2015. The report demonstrated that diffuser assessment had been undertaken for 12 months following the completion of full production in accordance with 6-8 and that the Worst Case Dilution for full production was above the Target Dilution of 9.6 required to protect 99% species at the LEPA boundary. Water Corporation has ceased monthly dilution assessment in accordance with the DPMP and WETMP Completion Report commitments. The DPMP commits to annual salinity monitoring and dilution assessment for a period of five years following completion of the 12-month monitoring period. The 5-year annual monitoring period will commence in 2016 and conclude in 2020.	Operation	For 12-months following: <ul style="list-style-type: none"> Completion of commissioning phase (or 6-months from commencement of commissioning phase, whichever is sooner); and Initiation of full production (according to design specifications). 	CLD
792:M6-9-1	Water Quality and Marine Biota	The Proponent shall conduct Whole Effluent Toxicity testing of wastewater, consistent with a Toxicity and Testing protocol based on Section 4 of the Southern Seawater Desalination Project Operational Environmental Management Framework, to the satisfaction of the CEO of the Department of Environment Conservation.	Whole Effluent Toxicity (WET) testing program submitted, and results reported (ref condition M6-11).	Whole Effluent Toxicity Monitoring Program. WET testing has been undertaken at the following intervals to meet the requirements of MS792 condition 6-9: <ul style="list-style-type: none"> One month following the initiation of the commissioning phase, on 14 December 2011; 12 months following the completion of commissioning, on 11 February 2013; An additional sample representative of commissioning of Full Production (100GL per year), on 14 January 2014; and A sample on 19 March 2015, 12 months following the commencement of Full Production. <p>The latest WET test was undertaken on a sample taken on 19 March 2015. This test was taken 12 months following the commencement of Full Production as per MS792 6-9 requirements and is representative of the WET of the desalination effluent for Full</p>	Operation	Results submitted within 6-months of initiation of test.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
				<p>Production operations. This test followed the test procedures and species specified in the WETMP and is considered valid.</p> <p>Water Corporation provided the DPMP and WETMP Completion Report to the OEPA on 18 December 2015. This report contained the results of the 12-month monitoring period for full production (January 2014 – January 2015) as well as results from additional monitoring undertaken from January 2015. The report advised that:</p> <ul style="list-style-type: none"> MS792 conditions 6-9 and 6-11 have been adequately addressed; No further WET testing will be undertaken unless there is a change to operations which alters the components of the desalination effluent discharge. 			
792:M6-9-2		<p>The Proponent shall conduct Whole Effluent Toxicity testing of wastewater consistent with the toxicity and testing protocol at the following intervals:</p> <ul style="list-style-type: none"> One month following the initiation of the commissioning phase; 12 months following the completion of commissioning or 18 months following the initiation of commissioning (whichever occurs first); and 12 months following the commencement of full production. 	Commissioning, Operation, Full Production WET testing undertaken; results reported (ref condition M6-11).	<p>Whole Effluent Toxicity Monitoring Program.</p> <p>WET testing has been undertaken at the following intervals to meet the requirements of MS792 condition 6-9:</p> <ul style="list-style-type: none"> One month following the initiation of the commissioning phase, on 14 December 2011; 12 months following the completion of commissioning, on 11 February 2013; An additional sample representative of commissioning of Full Production (100GL per year), on 14 January 2014; and A sample on 19 March 2015, 12 months following the commencement of Full Production. <p>The latest WET test was undertaken on a sample taken on 19 March 2015. This test was taken 12 months following the commencement of Full Production as per MS792 6-9 requirements and is representative of the WET of the desalination effluent for Full Production operations. This test followed the test procedures and species specified in the WETMP and is considered valid.</p> <p>Water Corporation provided the DPMP and WETMP Completion Report to the OEPA on 18 December 2015. This report contained the results of the 12 month monitoring period for full production (January 2014 – January 2015) as well as results from additional monitoring undertaken from January 2015. The report advised that:</p> <ul style="list-style-type: none"> MS792 conditions 6-9 and 6-11 have been adequately addressed; No further WET testing will be undertaken unless there is a change to operations which alters the components of the desalination effluent discharge. 	Commissioning and Operation	<ul style="list-style-type: none"> 1-month following initiation of commissioning; 12-months following completion of commissioning or 18-months following initiation of commissioning (whichever occurs first); and 12-months following commencement of full production <p>Results submitted within 6-months of initiation of tests.</p>	CLD
792:M6-10	Water Quality and Marine Biota	Prior to operation, the Proponent shall identify management measures that will be implemented in the event that the Whole Effluent Toxicity testing results show that the original wastewater diffuser is not achieving sufficient dilutions to meet a high level of ecological	Management plan submitted.	<p>Whole Effluent Toxicity Monitoring Program has been developed and has been implemented.</p> <p>The WET testing program was not specifically approved by the OEPA; however, it (along with the other associated plans) was submitted</p>	Construction	Prior to operation.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status															
		protection at the edge of the Low Ecological Protection Area under all wastewater flow and oceanographic conditions.		with the MEMP and identified in the MEMP as one the "integrated monitoring programs". The OEPA deemed the MEMP as complete for all elements of condition 6.2 in a letter dated 23/02/2010 (reference DEC11402). Evidence of compliance was provided in the 2013-14 PCR and no further evidence is required.																		
792:M6-11	Water Quality and Marine Biota	The Proponent shall submit the results of the Whole Effluent Toxicity testing required in condition 6-9 to the CEO of the Department of Environment and Conservation within six months of the initiation of each test.	WET testing results (ref condition M6-9) submitted.	<p>WET Testing has been undertaken at the following intervals:</p> <table border="1"> <thead> <tr> <th>MS792 6-9 Testing Interval</th> <th>Date Sample Collected for WET Test</th> <th>Date Results submitted to OEPA</th> </tr> </thead> <tbody> <tr> <td>One month following the initiation of the commissioning phase</td> <td>WET testing delayed until 14 December 2011 to enable the testing of the desalination effluent discharge as advised to OEPA in the 2011-2012 Performance and Compliance Report.</td> <td>Test results provided to OEPA on 10 June 2012.</td> </tr> <tr> <td>12 months following the completion of commissioning or 18 months following the initiation of commissioning (whichever occurs first)</td> <td>11 February 2013</td> <td>Test results provided to OEPA in the 2013 MEMP Annual Report on 13 August 2013.</td> </tr> <tr> <td>N/A</td> <td>14 January 2014</td> <td>Test results provided to OEPA on 16 December 2014.</td> </tr> <tr> <td>12 months following the commencement of full production</td> <td>19 March 2015</td> <td>Interim test results provided to OEPA on 24 September 2015. Final test results included in the DPMP and WETMP completion report provided on 18 December 2015.</td> </tr> </tbody> </table>	MS792 6-9 Testing Interval	Date Sample Collected for WET Test	Date Results submitted to OEPA	One month following the initiation of the commissioning phase	WET testing delayed until 14 December 2011 to enable the testing of the desalination effluent discharge as advised to OEPA in the 2011-2012 Performance and Compliance Report.	Test results provided to OEPA on 10 June 2012.	12 months following the completion of commissioning or 18 months following the initiation of commissioning (whichever occurs first)	11 February 2013	Test results provided to OEPA in the 2013 MEMP Annual Report on 13 August 2013.	N/A	14 January 2014	Test results provided to OEPA on 16 December 2014.	12 months following the commencement of full production	19 March 2015	Interim test results provided to OEPA on 24 September 2015. Final test results included in the DPMP and WETMP completion report provided on 18 December 2015.	Overall	Within 6-months of initiation of each test.	CLD
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Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
				Evidence of compliance with 6-11 was provided to the OEPA in the DPMP and WETMP Completion Report on 18 December 2015.			
792:M6-12	Water Quality and Marine Biota	Subject to the outcome of the Marine Environment Monitoring Program required by condition 6-2, the outcome of the dissolved oxygen monitoring required by condition 6-5, the verification of diffuser performance as determined in accordance with condition 6-8 and the Whole Effluent Toxicity testing required by condition 6-9, the monitoring and reporting requirements shall be reviewed and potentially amended by the CEO of the Department of Environment and Conservation on advice of the Environmental Protection Authority.	The MEMP has a letter of endorsement from the DER dated 23 February 2010.	Water Corporation has submitted evidence demonstrating the completion of conditions 6-5, 6-8, and 6-9. In a letter dated 30 September 2016 the OEPA confirmed that monitoring programs associated with Condition 6 of MS792 had been completed satisfactorily.	Overall	Ongoing	CLD
792:M7-1	Marine Mammals	At least one week prior to the commencement of the construction of the seawater pipelines, the Proponent shall implement a temporary cetacean exclusion zone covering the marine area at least 1 kilometre from any point of the pipeline alignment as defined in schedule 2. The temporary exclusion zone shall be demarcated with marker buoys placed at a minimum of 500 metre intervals along the boundary of the temporary exclusion zone. Additional buoys shall be placed 1.5 kilometres from any point of the pipeline alignment as defined in Figure 1, Schedule 2 to assist marine mammal observers* determine the proximity of any cetaceans or pinnipeds observed.	Digital images or statement from DER officer submitted to verify implementation of seawater pipeline construction management plan covering requirements.	Seawater Pipeline Installation Environment Management Plan developed and implemented. Marine buoys were installed on 16 February 2010 and marine construction activities commenced 07 March 2010. The location of and completion dates of the buoys were certified in completion letter provided by marine subcontractor (Dempsey Australia) who performed the installation (reference DA-LTR-001). SSWA surveyor verified the locations on 23 February 2010 and provided a letter of verification to the Water Corporation (reference SSWA letter dated 04/03/2010). SSDP Stage 1 completed on 12 March 2012 and condition completed at this time. Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Pre-construction and Construction	At least 1-week prior to commencement of construction of seawater pipelines	CLD
792:M7-2	Marine Mammals	Visual monitoring for the presence of marine mammals within 2 kilometre radius of the active blasting area shall be undertaken by a qualified marine mammal observer*. Visual monitoring shall commence at least 60 minutes prior to each blast using binoculars and the naked eye from a survey vessel positioned within 500 metres of the drill and blast area. Visual monitoring shall continue until the blast has been detonated. * A marine mammal observer means a person qualified and experienced in identifying marine fauna, estimated distances and interpreting fauna behaviour. It is suggested that approximately five years relevant experience would be adequate.	Report on all recorded sightings submitted (ref condition M7-6).	Marine Blasting Exclusion Zone (Marine Mammals) Report Ministerial Statement 792; 7-2, 7-3 (00-EN-REP-0005) prepared on 2 June 2010 detailing the marine mammal protocols adopted during blasting activities and the sightings recorded. SSDP Stage 1 completed on 12 March 2012 and condition completed at this time. Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Construction	At least 60-minutes prior to each blast; until the blast has been detonated. Report provided within 3-months following the completion of construction of the seawater pipeline (ref condition M7.6).	CLD
792:M7-3	Marine Mammals	If cetaceans or pinnipeds are observed within a 2 kilometre radius of the blast areas their movements shall be closely observed by one support vessel. If a marine mammal enters within a 1 kilometre radius of the blast area blasting shall cease. Blasting shall only resume when all marine mammals are outside a 1 kilometre radius from the blast area, or not less than thirty minutes have passed since the last sighting.	Report on all recorded sightings submitted (ref condition M7-6).	DER acknowledgement of receipt of sighting reports and implementation of exclusion zone. SSDP Stage 1 completed on 12 March 2012 and condition completed at this time.	Construction	If cetaceans or pinnipeds are observed within a 2-kilometre radius of the blast areas. Report provided within 3-months following the	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
				Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.		completion of construction of the seawater pipeline (ref condition M7.6).	
792:M7-4	Marine Mammals	At least one week prior to the commencement of the construction of the seawater pipelines, the Proponent shall implement and demarcate a temporary marine animal beach exclusion zone nominally 200 metres north and 200 metres south of the pipeline alignment on the beach. If marine animals are sighted in this zone, the Proponent shall implement measures to prevent construction activities from causing any distress or physical harm, or cease construction activities if necessary.	Report on all recorded sightings submitted and management measures implemented (ref condition M7-6).	<p>The seawater pipelines were installed using micro-tunnelling which did not require any disruption to the beach. Therefore, dedicated monitoring of the beach for marine mammals was not required. Marine mammal monitoring was performed via an ocean survey vessel in accordance with conditions M7-1, 7-2 and 7-3.</p> <p>DER acknowledgement of receipt of sighting reports and implementation of exclusion zone.</p> <p>SSDP Stage 1 completed on 12 March 2012 and condition completed at this time.</p> <p>Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.</p>	Pre-construction and Construction	<p>At least 1-week prior to the commencement of construction of the seawater pipelines.</p> <p>Report provided within 3-months following the completion of construction of the seawater pipeline (ref condition M7-6).</p>	CLD
792:M7-5	Marine Mammals	The Proponent shall investigate and report within 14 days, any marine animal observed to be in distress as a result of construction activities to the Chief Executive Officer of the Department of Environment and Conservation (Wildcare Hotline and DER Duty Officer) and the actions taken, including any modifications to the implementation of the proposal.	Results of investigation and actions taken reported.	<p>No marine animal was observed to be in distress as a result of construction activities. SSDP Stage 1 completed on 12 March 2012 and condition completed at this time.</p> <p>Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.</p>	Construction	Within 14-days of observation.	CLD
792:M7-6	Marine Mammals	Within three months following the completion of construction of the seawater pipeline, the Proponent shall provide a report on all recorded sightings required by conditions 7-2, 7-3, 7-4 and 7-5, to the CEO of the Department of Environment and Conservation.	Report on all recorded sightings (ref conditions M7-2, M7-3, M7-4 and M7-5) submitted.	<p>DEC acknowledgement of receipt of sighting reports and implementation of exclusion zone. Water Corporation provided the Marine Fauna Observation Final Project Report which included all recorded sightings.</p> <p>Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.</p>	Construction	Within 3-months following the completion of construction of the seawater pipeline.	CLD
792:M8-1	Terrestrial Fauna	During the construction of the desalination project the Proponent shall, every six months, provide a report on the management measures taken to prevent the death of native fauna within the pipeline corridor (including fauna trench inspections) and the plant site, to the CEO of the Department of Environment and Conservation.	Reports on fauna protection management measures submitted.	<p>Terrestrial Fauna Management Reports were submitted to the DER every 6 months from the issue of MS792 during the construction period. The last reports submitted include:</p> <ul style="list-style-type: none"> July 2012 acknowledged by EPA in letter dated 22/11/2012 (reference A538231). January 2013 acknowledged by EPA in letter dated 27/02/2013 (reference A602970). <p>Stage 2 construction was complete on 17 January 2014 and as a result condition 8-1 is complete.</p> <p>Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.</p>	Construction	Every 6 months during construction.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
792:M8-2	Terrestrial Fauna	Within one month following the completion of construction of the desalination plant, the Proponent shall re-instate the north-south possum movement linkage across the plant site to permit the free movement of possums.	Digital images or statement from DER officer submitted to verify reinstatement of fauna corridor. Certificate of completion of the stage 2 plant occurred in January 2014 with the re-instating of the north-south possum movement linkage for the possum corridor around October 2013.	The DER undertook an audit of the SSDP on 11 December 2013 with auditor Michael Gartrell. During this time, he visually observed the revegetation of the possum corridor. Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Operation	Within 1-month following completion of construction of the desalination plant.	CLD
792:M9-1	Terrestrial Flora and Vegetation	Based on the results of the existing declared rare flora (DRF), priority flora, and threatened and priority ecological community surveys* and the proposed survey in Spring 2008, the Proponent shall provide evidence to the CEO of the Department of Environment and Conservation that the pipeline construction corridor has been located to avoid and/or minimise the identified populations of DRF prior to commencing construction. * - <i>Southern Seawater Desalination Plant: 2007 Terrestrial Flora and Fauna Survey</i> , 360 Environmental, January 2008.	Relevant information provided.	The Water Corporation submitted this information in letter dated 25 June 2009 (reference JT 2007 07426 V02). DEC acknowledgement of receipt of information in letter dated 03 July 2009 (reference 3 July 2009 Anthony Sheehan). Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Pre-construction	Prior to commencing construction.	CLD
792:M9-2	Terrestrial Flora and Vegetation	At least three months prior to commencement of construction, the Proponent shall prepare a map with GIS coordinates which demonstrates the avoidance and minimisation of impacts upon Declared Rare Flora, Priority flora, Threatened Ecological Communities and Priority Ecological Communities which identifies a final construction corridor based on avoidance and minimisation of impacts, see condition 9-1.	Relevant information provided.	The Water Corporation submitted this information in letter dated 25 June 2009. This condition was deemed complete by DEC in letter dated 03 July 2009 (reference 3 July 2009 Anthony Sheehan). Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Pre-construction	At least 3-months prior to construction.	CLD
792:M9-3	Terrestrial Flora and Vegetation	In implementing the proposal, the Proponent shall minimise the loss of identified declared rare and priority flora, and priority and threatened ecological communities and may only take declared Rare Flora within the identified pipeline construction corridor which shall not exceed 20 metres in width.	Before, during and after construction digital images of flagged DRF, PF, PEC and TEC communities and pipeline width submitted.	Plant Site – There are no DRF, Priority flora, Threatened Ecological Communities or Priority Ecological Communities identified on the plant site footprint (360 Environmental “SSDP 2007 Terrestrial Flora and Fauna Survey”). Boonilup Rd – No DRF was located within the cleared Water Transfer Pipeline corridor. Evidence of compliance was provided in previous PCR (14 April 2009 to 13 April 2010). No further clearing has occurred during the reporting period. No further evidence of compliance required.	Overall	Ongoing.	CLD
792:M9-4	Terrestrial Flora and Vegetation	The Proponent shall monitor the number of declared rare and priority flora, and the area of priority and threatened ecological communities referred to in conditions 9-1 and 9-2 to demonstrate that the number lost has been minimised. This monitoring is to be carried out to the	Monitoring plan submitted and implemented.	Plant Site – There are no DRF, Priority flora, Threatened Ecological Communities or Priority Ecological Communities identified on the plant site footprint (360 Environmental “SSDP 2007 Terrestrial Flora and Fauna Survey”).	Construction	Ongoing during construction.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
		satisfaction of the CEO of the Department of Environment and Conservation.		Boonilup Rd – No DRF was located within the cleared Water Transfer Pipeline corridor. Evidence of compliance was provided in previous PCR (14 April 2009 to 13 April 2010). No further clearing has occurred during the reporting period. No further evidence of compliance required.			
792:M9-5	Terrestrial Flora and Vegetation	Within two months following the completion of construction, the Proponent shall submit the results of monitoring required by condition 9-4 and a report demonstrating that the number of declared rare and priority flora, and the area of priority and threatened ecological communities lost has been minimised, to the CEO of the Department of Environment and Conservation.	Monitoring results/report submitted.	Not applicable as mentioned above (792:M9-3) since no Declared rare or priority flora was identified.	Post-construction	Within 2-months following the completion of construction.	CLD
792:M9-6	Terrestrial Flora and Vegetation	Within two months following completion of construction of the Water Transfer Pipeline, the Proponent shall commence rehabilitation of the pipeline corridor to habitat similar to that which occurred prior to clearing in accordance with the criteria included in condition 9-7.	Digital images showing or statement from DER officer verifying, commencement of rehabilitation works consistent with criteria in condition M9-7 submitted.	Implementation, continued during direct seeding and revegetation planting commenced June/July 2011 for the Water Transfer Pipeline. Evidence of compliance provided in previous PCR (2013-14) and no further evidence required.	Post-construction	Within 2-months following completion of construction of the water transfer pipeline.	CLD
792:M9-7	Terrestrial Flora and Vegetation	Within two months following completion of construction of the desalination plant, the Proponent shall commence rehabilitation of the site. In accordance with the following: 1. Re-establishment of vegetation in the rehabilitation area to be comparable with that of the pre-clearing vegetation such that the following criteria are met within three years: (1) Species diversity is not less than 70 percent of the known original species diversity; (2) Declared rare flora and priority flora are re-established with not less than 50 percent of the pre-disturbance baseline density after three years and 65 percent success after five years; and (3) Weed coverage less than 10 percent. 2. A schedule of rate of rehabilitation acceptable to the CEO of the Department of Environment and Conservation	Digital images showing or statement from DEC officer verifying, commencement of rehabilitation works consistent with criteria in condition M9-7 submitted.	Rehabilitation performed in accordance with the SSDP Revegetation Management Plan (RMP) [00-EN-PLN-0001] which has been endorsed by the DoE. Implementation of the RMP for the desalination plant site commenced in July 2009 with stockpiling of topsoil, mulch and branches and pre-planting weed spraying. Direct seeding and planting commenced in June/July 2010 and the second seeding/planting campaign commenced in June/July 2011. Condition 9-7 is complete as rehabilitation was commenced in July 2009. Monitoring against condition 9-7 targets required by 9-8 and 9-9. Evidence of compliance against this condition provided in previous PCR (2013-14) and no further evidence required.	Post-construction	Within 2-months following completion of construction of the desalination plant.	CLD
792:M9-8	Terrestrial Flora and Vegetation	In liaison with the Department of Environment and Conservation, the Proponent shall monitor progressively the performance of rehabilitation against the criteria in condition 9-7 based on annual monitoring in Spring.	Implement annual monitoring program.	Revegetation progress monitoring has been undertaken on an annual basis in Spring since 2012. The 2015 Revegetation Program Monitoring Report was completed by a third party consultant and submitted to the OEPA along with a letter dated 15 July 2016. The 2015 revegetation survey results demonstrated that the SSDP revegetation program is complete according to Ministerial Statement 792 requirements.	Post-construction	Annually, during Spring, following commencement of rehabilitation.	CLD



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
792:M9-9	Terrestrial Flora and Vegetation	The Proponent shall submit annually a report of the rehabilitation performance monitoring required by condition 9-8 to the CEO of the Department of Environment and Conservation and shall address in the report the following: <ol style="list-style-type: none"> Progress towards meeting the criteria required by condition 9-7 and milestone criteria; and Contingency management measures in the event that criteria are unlikely to be met. 	Report of the rehabilitation performance monitoring (ref conditions M9-7 and 9-8) submitted.	Revegetation progress monitoring has been undertaken on an annual basis in Spring since 2012. The 2015 Revegetation Program Monitoring Report was completed by a third party consultant and submitted to the OEPA along with a letter dated 15 July 2016. The 2015 revegetation survey results demonstrated that the SSDP revegetation program is complete according to Ministerial Statement 792 requirements.	Post-construction	Annually, following commencement of rehabilitation.	CLD
792:M10-1	Wetlands	The Proponent shall only clear native vegetation on Part Lot 8 Taranto Road, Binningup and the Boonilup Road section of the Water Transfer Pipeline subject to the satisfactory demonstration that an 'Offset Implementation Strategy' has been prepared and is able to be implemented in accordance with condition 10-2.	Offset implementation strategy (ref condition 10-2) submitted.	DEC acknowledgement letter (CEO710/09 DER11361) dated 8 July 2009 deemed condition compliant. Evidence of compliance against this condition provided in previous PCR (2013-14).	Pre-construction	Prior to clearing native vegetation on Part Lot 8, Taranto Road, Binningup and the Boonilup Road pipeline section.	CLD
792:M10-2	Wetlands	The 'Offset Implementation Strategy' referred to in condition 10-1 shall detail an offset which will provide an adequate restoration of an agreed wetland in accordance with Environmental Protection Authority Guidance Statement No.19: Environmental Offsets – Biodiversity (September 2008) and to the satisfaction of the CEO of the Department of Environment and Conservation.	Offset implementation strategy submitted.	DEC acknowledgement letter (CEO710/09 DER11361) dated 8 July 2009 deemed condition compliant. Evidence of compliance against this condition provided in previous PCR (2013-14). DWER conducted a Compliance Audit Report which was provided to the Water Corporation along with a cover letter dated 30 July 2020. The report requested verification that the wetland offset as described in section 7.2 of the Offset Implementation Strategy (Wetlands) was implemented. Evidence of payment and completion of wetland offset was emailed to DWER on 21 September 2022. See Appendix 3 for copy.	Pre-construction	Prior to clearing native vegetation on Part Lot 8, Taranto Road, Binningup and the Boonilup Road pipeline section.	CLD
792:M10-3	Wetlands	During construction of the Water Transfer Pipeline, the Proponent shall not dewater along the length of the pipeline within the area of Boonilup Road section of the Water Transfer Pipeline (see Figure 4, Schedule 1) unless otherwise authorised by the CEO of the Department of Environment and Conservation.	Authorisation to dewater requested and obtained.	The pipeline construction along relevant sections of Boonilup Road was changed to avoid the need to dewater; no dewatering was required. No further construction works will require dewatering. This condition is closed.	Construction	During construction of Boonilup Road pipeline section.	CLD
792:M11-1	Greenhouse Gas Emissions	The Proponent shall ensure that all electricity used by the plant is purchased from renewable sources, and the associated Renewable Energy Certificates are surrendered.	Annual compliance assessment reports (ref condition M4-6) identifying plant energy sources submitted.	Water Corporation was non-compliant with Conditions 11-1 and 11-2 during the reporting period. Water Corporation has proposed a revised strategy (Greenhouse Gas Management Plan, June 2022) for the purchase of renewable energy and/or carbon offsets for the SSDP to address legacy offset deficits and secure long-term renewable energy sources. DWER approval of the Plan is pending.	Overall	Operations / Ongoing.	NC
792:M11-2	Greenhouse Gas Emissions	In the event that condition 11-1 cannot be met, the Proponent shall offset the quantity of greenhouse gas emissions produced by the amount of electricity which is sourced from non-renewable sources by purchasing carbon offset credits from accredited third parties, or	Annual compliance assessment reports (ref condition M4-6) identifying plant energy offsets submitted.	Water Corporation was non-compliant with Conditions 11-1 and 11-2 during the reporting period. Water Corporation has proposed a revised strategy (Greenhouse Gas Management Plan, June 2022) for the purchase of renewable energy and/or carbon offsets for the SSDP to address legacy offset deficits and secure long-term renewable energy sources.	Overall	If condition M11-1 is not met.	NC



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
		otherwise, in a manner approved by the CEO of the Department of Environment and Conservation.		DWER approval of the Plan is pending.			
792:M12-1	Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)	Prior to commencement of construction, the Proponent shall conduct surveys of the proposal area to collect baseline information on the following: <ol style="list-style-type: none"> 1. Soil profiles; 2. Groundwater levels; 3. Surface water flows; 4. Vegetation complexes; and 5. Landscape and landforms. 	Surveys conducted and relevant information provided.	DER acknowledgement letter (DEC11361) dated 6 July 2009 deemed condition complete. Evidence of compliance against this condition provided in previous PCR (2013-14) and no further evidence required.	Pre-construction	Prior to construction.	CLD
792:M12-2	Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)	In the event of closure of the desalination plant, the Proponent may leave the pipeline underground, wherever it is below ground level.	Advise DER accordingly.	Not required until SSDP is decommissioned.	De-commissioning	Closure of desalination plant.	NR
792:M12-3	Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)	In the event of closure of the desalination plant, the Proponent shall commence rehabilitation of the site in accordance with the following: <ol style="list-style-type: none"> 1. Re-establishment of vegetation in the rehabilitation area to be comparable with that of the pre-clearing vegetation such that the following criteria are met within three years following the cessation of the use of the site for the desalination plant: <ol style="list-style-type: none"> (1) Species diversity is not less than 70 percent of the known original species diversity; (2) Declared Rare Flora and Priority flora are re-established with not less than 50 percent of the pre-disturbance baseline density after three years and 65 percent success after five years; and (3) Weed coverage less than 10 percent. 2. A schedule of rate of rehabilitation acceptable to the CEO of the Department of Environment and Conservation. 	Undertake site rehabilitation according to approved plan; report accordingly.	Not required until SSDP is decommissioned.	De-commissioning	In the event of closure of the desalination plant (following).	NR
792:M12-4	Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)	In liaison with the Department of Environment and Conservation, the Proponent shall monitor progressively the performance of rehabilitation against the criteria in condition 12-3 based on annual monitoring in Spring.	Implement annual monitoring program.	Not required until SSDP is decommissioned.	De-commissioning	In the event of closure of the desalination plant (annually, during Spring, following commencement of rehabilitation).	NR
792:M12-5	Closure and Final Rehabilitation (Plant Site and Harvey Summit Tank)	The Proponent shall submit annually a report of the rehabilitation performance monitoring required by condition 12-4 to the CEO of the Department of Environment and Conservation and shall address in the report the following:	Report of the rehabilitation performance monitoring (ref conditions M12-3 and 12-4) submitted.	Not required until SSDP is decommissioned.	De-commissioning	In the event of closure of the desalination plant (annually, following	NR



Audit Code	Subject	Requirement	How	Evidence	Phase	Timeframe	Status
	Harvey Summit Tank)	<ol style="list-style-type: none"> Progress towards meeting the criteria required by condition 12-3 and milestone criteria; and Contingency management measures, and their implementation, in the event that criteria are unlikely to be met. 				commencement of rehabilitation).	
792:N1	Procedures	Where a condition states “on advice of the Environmental Protection Authority”, the Environmental Protection Authority will provide that advice to the Department of Environment and Conservation for the preparation of written notice to the Proponent.	Not applicable	Not applicable.	N/A	Not applicable	NA
792:N2	Procedures	The Environmental Protection Authority may seek advice from other agencies or organisations, as required, in order to provide its advice to the Department of Environment and Conservation.	Not applicable	Not applicable	N/A	Not applicable	NA
792:N3	Procedures	The Minister for Environment will determine any dispute between the Proponent and the Environmental Protection Authority or the Department of Environment and Conservation over the fulfilment of the requirements of the conditions.	Not applicable	Not applicable	N/A	Not applicable	NA
792:N4	Procedures	Where a condition lists advisory bodies, it is expected that the Proponent will obtain the advice of those listed as part of its compliance reporting to the Department of Environment and Conservation.	Not applicable	Not applicable	N/A	Not applicable	NA
792:N5	Procedures	The Proponent is required to apply for a Works Approval and Licence for this project under the provisions of Part V of the <i>Environmental Protection Act 1986</i> .	Not applicable	<p>The SSDP plant was granted Works Approval W4519/2009/1 on 12 June 2009. This was amended 4 February 2010.</p> <p>The Works Approval was extended.</p> <p>The SSDP plant was granted a Licence to Operate L8466/2010/1 on 13 January 2011 and the works approval completed at this time.</p> <p>Evidence of compliance against this condition provided in previous PCR (2013-14) and no further evidence required.</p>	N/A	Construction	CLD

Note: the evidence documentation listed in Table 2 has been provided previously in earlier CARs. Further copies can be provided upon request.



Appendix 1 – Ministerial Statement 792

Appendix 2 – Compliance Assessment Plan

Appendix 3 – Wetland offset completion evidence

Appendix 4 – Greenhouse Gas Management Plan, June 2022