

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

SITE DETAILS

Site: **Ecolab - Santiago, Chile**

Address: Chorrillos uno s/n, Lote 13A, Lampa, ., Santiago de Chile, CHILE

Contact Person: Catalina Lavarello

AWS Reference Number: AWS-000753

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Core

Date of certification decision: 2025-Mar-18

Validity of certificate: 2028-Mar-17

AUDIT DETAILS

Audited Service(s): AWS Standard v2.0 (2019)

Audit Type(s): Initial Audit

Audit Start Date: 2024-Dec-09

Audit End Date: 2024-Dec-11

Lead Auditor: Marcos Antonio Tricallotis

Audit team participants:

Marcos Tricallotis, Lead Auditor

Site Participants:

Catalina Lavarello, SHE Manager

José Rivas, Factory Manager

Matías Abarca, Production Supervisor

Lorena Figueroa, Quality manager

Jonas Díaz, Project Engineer

José Cabeza, Production Supervisor

Victor Bravo, Factory Director

José Aravena, Factory Manager

Cristina Castillo, Senior Quality Manager

Jorge Rivas, Sr. Maintenance Manager

Osvaldo Osses, SHE Manager

Carla Napoli, Sustainability Manager

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001411

ADDITIONAL INFO

Summary of Audit Findings: During the certification audit, 10 minor non-conformities and 7 observations were raised.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 30 days of receipt of the audit report by 10 March 2025.

Minor non-conformities must be closed out by the time of the next annual audit.

The audit team recommends certification of site at Core level pending approval of the corrective actions plan for the non-conformities.

CLOSURE OF FINDINGS AND CORRECTIVE ACTION PLAN:

The Client has successfully submitted the corrective action plan addressing all findings. Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit. The client is requested to upload evidence of implementation prior to the Surveillance Audit.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing conformity of ECOLAB Santiago, Chile, against the AWS International Water Stewardship Standard Version 2.

The description of the site has been removed for confidentiality reasons.

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	7
Minor	10

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

FINDING DETAILS

Finding No: TNR-016284
Checklist Item No: 1.3.2
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped
Findings: The site has not identified and mapped evaporation losses.
Corrective action: Incorporate evaporation into the site's water map and balance

Finding No: TNR-014911
Checklist Item No: 1.3.4
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.
Findings: While the site reported the water quality of its water source, it has not obtained information about the quality of its effluent (treated by supplier). Overall, the site has not provided annual, and where appropriate, seasonal, high and low variances of its water source and effluents quality.
Corrective action: Request quality analyses for service provider's effluent to ensure compliance with regulations. Document any findings within the proper AWS folder.

Finding No: TNR-014912
Checklist Item No: 1.3.6
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.
Findings: While the site reported a rainwater collection pond with native growth as an on-site IWRA, it also reported other areas that did not meet the definition of an IWRA, e.g. the on-site well and a "fire pool". However, there is no description of the on-site IWRA status including Indigenous, social, or cultural values (as applicable).
Corrective action: Map and Identify On-site Important Water-Related Areas, including a description of their status including Indigenous cultural values.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Finding No:	TNR-016422
Checklist Item No:	1.4.1
Status:	Open
Finding level:	Observation
Checklist item:	The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.
Findings:	In its analysis of embedded water use, the site considered only the territory of Lampa commune, however, there are also other communes encompassed by the catchment. The analysis should be updated to consider full spatial scope of the catchment.
Finding No:	TNR-016287
Checklist Item No:	1.5.4
Status:	Open
Finding level:	Observation
Checklist item:	Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.
Findings:	The information regarding the catchment water quality is not based on current data. Specifically, various conditions that could potentially cause issues in the catchment quality have been observed from the general data (e.g., high manganese concentrations). It is important to monitor catchment water quality by monitoring current data.
Finding No:	TNR-016288
Checklist Item No:	1.5.5
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Dec-09
Checklist item:	Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.
Findings:	The site has identified IWRAs' status using scientific information only. Stakeholder engagement for identifying IWRAs and assessing their status is missing
Corrective action:	Develop a tool (questionnaire or other suitable method) that will allow us to gather information regarding Important Water-Related Areas (IWRAs) and assess their status, specifically from relevant stakeholders, such as the Environmental Authority in Lampa or other similar stakeholders in the catchment. Include information of the IWRA's in communcaitions to stakeholders via email or powerpoint presentation.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Finding No: TNR-016289
Checklist Item No: 1.5.6
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.
Findings: The site has not identified water-related infrastructure's condition and potential exposure to extreme.
Corrective action: -Redefine the catchment
- Consult the Superintendencia de Servicios Sanitarios (Chilean regulatory body that oversees and supervises potable water and sewage services) for a reputable source for the assessment in the catchment. They release a yearly assessment.

Finding No: TNR-014943
Checklist Item No: 1.7.1
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.
Findings: The site has not provided assessment of the likelihood and severity of impact of its water risks within a given timeframe, as well as the potential costs and business impact of the risks
Corrective action: The site will re-evaluate their current water risks and document their prioritization, including likelihood and severity of impact within a given timeframe, potential costs and business impact

Finding No: TNR-014944
Checklist Item No: 1.7.2
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.
Findings: While the site identified its water-related opportunities, it did not determine how the site may participate on those opportunities, and did not provide the assessment and prioritization of potential savings, and business opportunities.
Corrective action: The site will re-evaluate the ways in which it can participate in water-related opportunities, making sure it provides the assessment and prioritization of potential savings and business opportunities.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Finding No: TNR-016373
Checklist Item No: 2.1.1
Status: Open
Finding level: Observation
Checklist item: A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:
- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes
- That the site implementation will be aligned to and in support of existing catchment sustainability plans
- That the site's stakeholders will be engaged in an open and transparent way
- That the site will allocate resources to implement the Standard.

Findings: A signed site statement has been communicated at the plant entrance and the site could consider disclosing it at other forums/media as well

Finding No: TNR-015731
Checklist Item No: 2.2.1
Status: Open
Finding level: Observation
Checklist item: The system to maintain compliance obligations for water and wastewater management shall be identified, including:
- Identification of responsible persons/positions within facility organizational structure
- Process for submissions to regulatory agencies.

Findings: While the process for submissions to regulatory agencies meets what is requested in this indicator, it is not sufficiently detailed.

Finding No: TNR-015732
Checklist Item No: 2.3.2
Status: Open
Finding level: Observation
Checklist item: A water stewardship plan shall be identified, including for each target:
- How it will be measured and monitored
- Actions to achieve and maintain (or exceed) it
- Planned timeframes to achieve it
- Financial budgets allocated for actions
- Positions of persons responsible for actions and achieving targets
- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.

Findings: The site presents a well-structured WSP covering most of what is requested in this indicator but is not linked with the shared water challenges. Additionally, all the IWRAs targets/actions are rather water quality targets and actions.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Finding No: TNR-015809
Checklist Item No: 2.4.1
Status: In Progress - CA plan approved
Finding level: Minor
Due date: 2025-Dec-09
Checklist item: A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.
Findings: While the site presents crisis management and business continuity plan and emergency preparedness and response procedure, both of which were co-ordinated with relevant public-sector and infrastructure agencies, these plans are not encompassing the relevant risks identified in the indicator 1.7.1.
Corrective action: Revise the emergency preparedness and response procedure to expand the definition of 'emergency' to include significant environmental risks such as water stress, aquifer contamination, water infrastructure issues, and loss of wetlands/biodiversity.

Finding No: TNR-015808
Checklist Item No: 4.1.1
Status: Open
Finding level: Observation
Checklist item: Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.
Findings: While the description of performance is appropriate, the evaluation would benefit from evaluating the status of progress in terms of percentage of compliance for each of the targets and a summary evaluation per outcome.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001411

Finding No:	TNR-014939
Checklist Item No:	4.1.2
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Dec-09
Checklist item:	Value creation resulting from the water stewardship plan shall be evaluated.
Findings:	The value creation resulting from the water stewardship plan has not been evaluated by the site.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Corrective action: "The value of the WSP is evaluated per the targets within. Targets include:

Target

Good water governance: Maintain a good, open relationship with the local water authorities and catchment stakeholders

Less direct cost due to health of resource (Quantity and Quality)

Water Quality Improvement: Volunteers often participate in activities like cleaning up litter and debris from rivers, lakes, and beaches. This directly improves water quality by removing pollutants that can harm aquatic life and ecosystems.

Sustainable water balance: Achieve a 40% water reduction per ton of product by 2030 (2018 baseline)

Less direct cost due to health of resource (Quantity and Quality)

Good water quality status: Meet or exceed all WW permit requirements

Less direct cost due to health of resource (Quantity and Quality)

Reduced labor costs: Volunteers provide free labor, which can significantly reduce the costs associated with organizing and running water-related events such as cleanups, educational programs, or restoration projects. This allows organizations to allocate their financial resources to other areas, such as purchasing equipment or expanding their outreach.

Improved property values: Clean and healthy waterways can enhance the aesthetic appeal of an area and improve the quality of life for residents. This can lead to increased property values, which benefits homeowners and generates higher property tax revenues for local governments.

Water Quality Improvement: Volunteers often participate in activities like cleaning up litter and debris from rivers, lakes, and beaches. This directly improves water quality by removing pollutants that can harm aquatic life and ecosystems.

Data Collection: Volunteers can help gather data on water quality, wildlife populations, and other environmental factors, which can inform conservation efforts and policy decisions.

Healthy status of Important Water-Related Areas: Help maintain the same or better status through discharge water quality and public volunteerism

Less direct cost due to health of resource (Quantity and Quality)

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Improved property values: Clean and healthy waterways can enhance the aesthetic appeal of an area and improve the quality of life for residents. This can lead to increased property values, which benefits homeowners and generates higher property tax revenues for local governments.

Habitat Restoration: Volunteers can help plant native vegetation along waterways, which helps stabilize riverbanks, reduce erosion, and provide habitat for wildlife. They might also participate in projects to remove invasive species that threaten native ecosystems.

WASH: Ensure safe water & sanitation hygiene access to all within the Garyville site & understand how to further this goal within the basin.

Reduced labor costs: Volunteers provide free labor, which can significantly reduce the costs associated with organizing and running water-related events such as cleanups, educational programs, or restoration projects. This allows organizations to allocate their financial resources to other areas, such as purchasing equipment or expanding their outreach.

Community Building: Water-related events often bring together diverse groups of people with a shared interest in protecting and conserving water resources. This can foster a sense of community and belonging.

Networking: Volunteering provides opportunities to meet and connect with people from various backgrounds, professions, and interests, expanding social networks.

Skill Development: Volunteers may learn new skills or enhance existing ones, such as teamwork, leadership, communication, and technical skills related to water management or conservation.

Social Awareness: Participating in water-related events raises awareness of water-related issues, such as pollution, scarcity, and access, which can inspire further action and advocacy.

The value creation resulting from the water stewardship plan is evaluated per the Value Evaluation Process for Water Stewardship Plan Projects.docx

Finding No:	TNR-016374
Checklist Item No:	4.1.3
Status:	Open
Finding level:	Observation
Checklist item:	The shared value benefits in the catchment shall be identified and where applicable, quantified.
Findings:	While the description provided is not incorrect, it is generic and provides little specificity or estimations of economic, social, environmental and cultural benefits derived from the implemented projects or actions.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001411

Finding No:	TNR-014942
Checklist Item No:	5.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Dec-09
Checklist item:	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.
Findings:	The site has not disclosed a summary of its water stewardship performance, including quantified performance against targets (from its WSP).
Corrective action:	In future communication with stakeholders, the site will ensure that the site's public case study is linked in the email in order to disclose the information related to its water management performance.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Report Details

Report	Value
Report prepared by	Marcos Tricallotis
Report approved by	Ozge GOKMEN
Report approved on (Date)	06/02/2025

Surveillance

Proposed date for next audit
2025-Dec-09

Comment N/A

Stakeholder Announcements

Date of publication	Location
07/10/2024	https://watersas.org/wp-content/uploads/2024/10/AWS-000753_Ecolab-Santiago-Chile_StakeholderAnnouncement_Dec2024_V3.0.pdf
07/10/2024	https://www.ecolab.com/corporate-responsibility/environment/water-stewardship
Comment	Attached is also an email chain showing the publication of the stakeholder announcements by ECOLAB Chile.

Audit Number: AO-001411

Catchment Information

Catchment Information

The catchment-context corresponds to the "Mapocho Bajo" water catchment and is directly influenced by the "Esteros Colina" and Lampa" as important creeks of the catchment. The hydrology of the sector is characterized by the presence of the Colina and Lampa estuaries, the latter being formed from the confluence of the Chacabuco and Til Til estuaries. The land under study is located approximately 100 m from the right arm of the Lampa estuary. Due to the low slope of the sector, the runoff from the Lampa estuary is not limited to a watercourse, but rather flows in a poorly defined manner. Approximately 6.5 km downstream from the confluence of the Colina and Lampa estuaries, the flow is discharged into the Mapocho (Bajo) River.

The Maipo River basin is divided into sub-basins and sub-sub-basins. The commune of Lampa is within the Mapocho Bajo sub-basin and includes the entire sub-sub-basins of Estero Lampa Entre Estero Til-Til and Estero Colina and Estero Lampa Entre Estero Colina y Río Mapocho, as well as part of the Estero Colina sub-sub-basin.

The site is located on an industrial land owned by Ecolab, corresponding to Lot A-13-a of the Lot A Subdivision, Peralillo Parcelation, commune of Lampa, Metropolitan Region. Source: Hydrological and Hydrogeological Baseline MAQUI Project ECOLAB S.A.

The main water recharges of the system correspond to infiltration by precipitation, irrigation and recharges from natural channels. The discharges correspond to pumping for industrial uses/households, natural outcrops and the flow that comes out from the downstream end of the area.

The drainage network is mainly composed of the Lampa and Colina estuaries. The Til Til or Polpaico estuary is born in the northwest end of the basin, downstream from the Rungue reservoir, and descends in a north-south direction to its confluence with the Chacabuco estuary. For its part, the Chacabuco estuary is born in the center of the basin at its northern end, during its south-west course it receives the contribution of the Peldehue estuary shortly before its confluence with the Til Til estuary, with which it gives rise to the Lampa estuary. Towards the northeast of the basin, the Colina estuary originates in the Andean precordilleran sector, which follows a south-west direction until its confluence with the Lampa estuary, which maintains its name until its confluence with the Mapocho River. In its final section, the Lampa estuary receives the contribution of the Las Cruces estuary, which is born from the overflows of the Los Choros and Huechuraba channels.

The average temperature of the area is around 16.5°C, ranging from - 8°C (winter) to even 40°C (summer).



Ecolab.png

CERTIFICATION REPORT

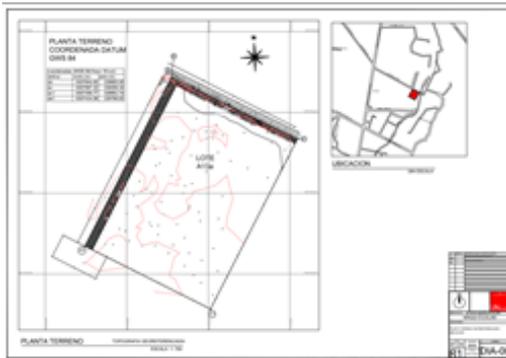
Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Client Description and Site Details

Client/Site Background

The description of the site has been removed for confidentiality reasons.



Ecolab1.png

Summary of Shared Water Challenges

Summary of Shared Water Challenges

The identified site's shared water challenges are the following:

1. Water scarcity in the entire Mapocho basin, including the "Mapocho Bajo" catchment context of the site..
2. Contamination of the aquifers.
3. Floods as extreme events as direct (an historical) impact of climate change.
4. Water infrastructure for its supply.
5. Loss of biodiversity and wetlands.

These water challenges were identified through secondary information and stakeholders consultation.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

0.1 General Requirements for Single Sites, Multi-Sites and Groups	
0.1.1	<i>Eligibility Criteria</i>
0.1.2	
0.1.2.1	<i>Have any water source locations and water-related discharge locations been visited during the audit, if so, which and where? If none were visited please provide justification.</i>
Comment	The audit team visited the main water source of the site which is a well that is run through 7 mechanical pumps (currently 4 were operational during the audit); it also visited the "discharge location point" which is a 54 m3 wastewater tank that is emptied twice a week by tanker trucks (from a supplier) that transport this contaminated wastewater to an authorized supplier - in charge of its final treatment and disposal (as a hazardous waste).
0.1.1.1	<i>The site(s) occupy one catchment OR an exception has been granted.</i>
Comment	The site occupies only one catchment, which is named "Mapocho Bajo" (catchment-context) and directly influenced by the "Esteros Colina" and Lampa" as important creeks of the catchment.
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i>
Comment	The scope of the proposed certification is under the control of a single management system.
0.1.1.3	<i>The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.</i>
Comment	Yes, the scope of the proposed certification is homogenous with respect to primary production system, water management, product or service range, and the main market structures. Under a single site certification.

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

1 STEP 1: GATHER AND UNDERSTAND	
1.1	<i>Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.</i>
1.1.1	<p><i>The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:</i></p> <ul style="list-style-type: none"> - Site boundaries; - Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - Any water sources providing water to the site that are owned or managed by the site or its parent organization; - Water service provider (if applicable) and its ultimate water source; - Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies; - Catchment(s) that the site affect(s) and is reliant upon for water.
1.2	<i>Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.</i>
1.2.1	<p><i>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</i></p> <ul style="list-style-type: none"> - Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people; - Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies; - Provide evidence of stakeholder consultation on water-related interests and challenges; - Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups; - Identify the degree of stakeholder engagement based on their level of interest and influence.
1.2.2	<i>Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.</i>
1.3	<i>Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.</i>
1.3.1	<i>Existing water-related incident response plans shall be identified.</i>
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>

✔
Yes

✔
Yes

✔
Yes

✔
Yes



in progress

Finding No: TNR-016284

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

1.3.3	<i>Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.</i>	 Yes
1.3.4	<i>Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.</i>	 in progress Finding No: TNR-014911
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	 Yes
1.3.6	<i>On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.</i>	 in progress Finding No: TNR-014912
1.3.7	<i>Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.</i>	 Yes
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
1.4	<i>Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.</i>	
1.4.1	<i>The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.</i>	 Obs.
1.4.2	<i>The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.</i>	 Yes
1.5	<i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i>	
1.5.1	<i>Water governance initiatives shall be identified, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.</i>	 Yes
1.5.2	<i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i>	 Yes
1.5.3	<i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

1.5.4	<i>Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.</i>	 Obs.
1.5.5	<i>Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.</i>	 in progress Finding No: TNR-016288
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 in progress Finding No: TNR-016289
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
1.6	<i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i>	
1.6.1	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
1.7	<i>Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.</i>	
1.7.1	<i>Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.</i>	 in progress Finding No: TNR-014943
1.7.2	<i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i>	 in progress Finding No: TNR-014944
1.8	<i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i>	
1.8.1	<i>Relevant catchment best practice for water governance shall be identified.</i>	 Yes
1.8.2	<i>Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.</i>	 Yes
1.8.3	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

- 1.8.4** *Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.* 
Yes

- 1.8.5** *Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.* 
Yes

Audit Number: AO-001411

2 STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<p><i>Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.</i></p>
2.1.1	<p><i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i></p> <ul style="list-style-type: none"> - <i>That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</i> - <i>That the site implementation will be aligned to and in support of existing catchment sustainability plans</i> - <i>That the site's stakeholders will be engaged in an open and transparent way</i> - <i>That the site will allocate resources to implement the Standard.</i>
2.2	<p><i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i></p>
2.2.1	<p><i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i></p> <ul style="list-style-type: none"> - <i>Identification of responsible persons/positions within facility organizational structure</i> - <i>Process for submissions to regulatory agencies.</i>
2.3	<p><i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i></p>
2.3.1	<p><i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i></p>
2.3.2	<p><i>A water stewardship plan shall be identified, including for each target:</i></p> <ul style="list-style-type: none"> - <i>How it will be measured and monitored</i> - <i>Actions to achieve and maintain (or exceed) it</i> - <i>Planned timeframes to achieve it</i> - <i>Financial budgets allocated for actions</i> - <i>Positions of persons responsible for actions and achieving targets</i> - <i>Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</i>
2.4	<p><i>Demonstrate the site's responsiveness and resilience to respond to water risks</i></p>
2.4.1	<p><i>A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.</i></p>

Q
Obs.

Q
Obs.

✓
Yes

Q
Obs.

➔
in progress

Finding No: TNR-015809

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts		
3.1	Implement plan to participate positively in catchment governance.	
3.1.1	Evidence that the site has supported good catchment governance shall be identified.	✓ Yes
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.	✓ Yes
3.2	Implement system to comply with water-related legal and regulatory requirements and respect water rights.	
3.2.1	A process to verify full legal and regulatory compliance shall be implemented.	✓ Yes
3.2.2	Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented.	✓ Yes
3.3	Implement plan to achieve site water balance targets.	
3.3.1	Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.	✓ Yes
3.3.2	Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.	✓ Yes
3.3.3	Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.	✓ Yes
3.4	Implement plan to achieve site water quality targets	
3.4.1	Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.	✓ Yes
3.4.2	Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.	✓ Yes
3.5	Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.	
3.5.1	Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.	✓ Yes
3.6	Implement plan to provide access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers at all premises under the site's control.	

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

3.6.1	<i>Evidence of the site's provision of adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite shall be identified and where applicable, quantified.</i>	 Yes
3.6.2	<i>Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.</i>	 Yes
3.7	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
3.7.1	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	 Yes
3.7.2	<i>Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.</i>	 Yes
3.8	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>	
3.8.1	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>	 Yes
3.9	<i>Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.</i>	
3.9.1	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>	 Yes
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
3.9.4	<i>Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.</i>	 Yes
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

4 STEP 4: EVALUATE - Evaluate the site's performance.		
4.1	<i>Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes.</i>	
4.1.1	<i>Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.</i>	🔍 Obs.
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	🚩 in progress Finding No: TNR-014939
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	🔍 Obs.
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>	
4.2.1	<i>A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.</i>	✅ Yes
4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>	
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>	✅ Yes
4.4	<i>Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.</i>	
4.4.1	<i>The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.</i>	✅ Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

5 STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts	
5.1	<i>Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.</i>
5.1.1	<i>The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.</i> ✔ Yes
5.2	<i>Communicate the water stewardship plan with relevant stakeholders.</i>
5.2.1	<i>The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.</i> ✔ Yes
5.3	<i>Disclose annual site water stewardship summary, including: the relevant information about the site's annual water stewardship performance and results against the site's targets.</i>
5.3.1	<i>A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.</i> ↗ in progress
Finding No: TNR-014942	
5.4	<i>Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges; engagement with stakeholders; and co-ordination with public-sector agencies.</i>
5.4.1	<i>The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.</i> ✔ Yes
5.4.2	<i>Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.</i> ✔ Yes
5.5	<i>Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.</i>
5.5.1	<i>Any site water-related compliance violations and associated corrections shall be disclosed.</i> ✔ Yes
5.5.2	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i> ✔ Yes
5.5.3	<i>Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.</i> ✔ Yes

Photographic Evidence from Audit

✔
Yes

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-001411

Previous Findings

All non-conformities raised in the previous audit have been satisfactorily closed.


N/A