

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)



Audit Number: AO-001784

### SITE DETAILS

Site: **Ecolab Garyville**

Address: 3628 Highway 44, 70051, Garyville, Louisiana, UNITED STATES

Contact Person: Amy Mika

AWS Reference Number: AWS-000051

Site Structure: Single Site

### CERTIFICATION DETAILS

Certification status: Certified Core

Date of certification decision: 2025-Dec-08

Validity of certificate: 2028-Dec-07

### AUDIT DETAILS

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

Audit Type(s): Re-Certification Audit

Audit Start Date: 2025-Oct-29

Audit End Date: 2025-Oct-31

Lead Auditor: Rupa Bidap

Site Participants:

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### ADDITIONAL INFO

Summary of Audit Findings: During the recertification audit 6 observations were raised.

Key opportunities for improvement include:

- Granular water balance details, including evaporation and storage
- Stronger justification of seasonal/catchment variability
- Broader stakeholder engagement and WSP communication
- Enhanced WSP monitoring and reporting tools
- Wider consultation on stewardship performance

The audit team recommends re-certification at Core level.

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**Scope of Assessment:** The scope of services covers the recertification audit for assessing conformity of Nalco Water - Ecolabs Garyville LA against the AWS International Water Stewardship Standard Version 2.

The Nalco Water–Ecolab Garyville facility is located in an industrial corridor along the Mississippi River in St. John the Baptist Parish, Louisiana, approximately 65 km northwest of New Orleans. The region experiences a humid subtropical climate, characterized by hot, wet summers, mild winters, and high annual rainfall. Seasonal flooding, hurricane activity, storm surges, and river-level fluctuations are critical regional risks that influence water availability, discharge management, and operational resilience.

The Nalco Water Garyville facility, located in St. John the Baptist Parish, Louisiana, is a large-scale chemical manufacturing, blending, and packaging plant. Core operations include - Polymer and monomer production, Blending and formulation of water treatment chemicals, Drum/IBC filling, Bulk chemical storage and transfer, Utility operations (boilers, cooling towers, process water treatment), QA/QC laboratories, and Warehouse and administrative spaces.

The Site's incoming water consists of direct withdrawals from the Mississippi River, which serve as the primary input for process, cooling, and utility needs. Additional potable water is supplied through the St. John the Baptist Parish Lions Water Treatment Facility located in Reserve, LA.

The Site operates multiple permitted discharge outfalls (Outfalls 001–005 and 101) that release treated process wastewater into the Mississippi River, the ultimate receiving body of the facility's effluent. Stormwater drains to the Garyville Canal, which flows to Lake Maurepas—an ecologically significant downstream receiving body referenced in the Catchment Map.

The 2025 AWS recertification audit for the Garyville facility was conducted onsite on Oct 29 - Oct 31, 2025. The onsite assessment covered all major operational areas and water-relevant systems across the plant. This included production buildings, blending and formulation units, quality control laboratories, and utility systems, as well as administrative and support spaces such as maintenance shops, control rooms, restrooms, and employee welfare areas. Site walkthroughs included all water inlets and outlets, including the Mississippi River intake, cooling towers, boiler systems, wastewater treatment units, stormwater conveyance structures, and the designated outfalls (001–005 and 101) that discharge to the Mississippi River. Additional infrastructure reviewed included chemical and hazardous material storage areas, secondary containment systems, spill prevention controls, emergency showers, eyewash stations, and spill-response equipment.

The audit covered -

- Water intake, treatment, and distribution systems, including raw river water pumps, filtration units, and utility water loops serving manufacturing operations.
- Utility systems, including cooling towers, boilers, heat exchangers, and process support equipment essential to thermal control and chemical production.
- Process wastewater treatment infrastructure, including neutralization basins, aeration units, and discharge control systems associated with Outfalls 001–005 and 101.
- Stormwater drainage and discharge pathways, including drainage channels leading to the Garyville Canal, which eventually flows to Lake Maurepas.
- Hazardous material management areas, including chemical tank farms, retention basins, spill-containment structures, and hazardous waste storage units.
- Domestic water and employee WASH facilities, including potable water access, restrooms, locker rooms, and hygiene stations for the site's workforce.

## FINDINGS

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**NUMBER OF FINDINGS PER LEVEL**  
**Observation**                      6

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### FINDING DETAILS

Finding No:	TNR-021335
Checklist Item No:	1.3.3
Status:	Open
Finding level:	Observation
Checklist item:	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.
Findings:	The “annual losses” are not disaggregated into evaporation, leakage, or process consumption, limiting clarity on water use efficiency. The absence of detailed component breakdowns, justification for interannual variances, and clarity on storage fluctuations limits the completeness and reliability of the water balance.
Finding No:	TNR-021425
Checklist Item No:	1.5.3
Status:	Open
Finding level:	Observation
Checklist item:	The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.
Findings:	Seasonal variation was only partially addressed in the assessment. While the site provided precipitation maps and downstream flow data indicating temporal fluctuations, it did not sufficiently justify the underlying causes or explain the hydrological or operational factors influencing these variations.  Key parameters such as evaporation losses and storage volumes were not incorporated into the analysis for the Mississippi River Basin.

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Finding No: TNR-021426  
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 WSP plan could further strengthen its conformity by adding a "Progress Summary Dashboard" consolidating status, metrics, and impact achieved year-over-year (e.g., volumetric benefit, risk reduction impact) for clearer trend visualization.

Finding No: TNR-021428  
Checklist Item No: 4.3.1  
Status: Open  
Finding level: Observation  
Checklist item: Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.

Findings: The site's water stewardship performance was shared with only two stakeholders during the outreach engagement. Evidence does not demonstrate that the consultation process included broader dissemination of the Water Stewardship Plan (WSP) performance results or that stakeholder feedback was solicited and integrated.

Finding No: TNR-021424  
Checklist Item No: 5.2.1  
Status: Open  
Finding level: Observation  
Checklist item: The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.

Findings: Only two stakeholders responded back to Garyville and the site considered them as relevant at this time, and thus the WSP plan was only shared through a PowerPoint to these two stakeholders. The site did not share the information with other stakeholders as they were not deemed relevant since they did not respond back to the site.

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Audit Number: AO-001784

Finding No:	TNR-021871
Checklist Item No:	5.4.2
Status:	Open
Finding level:	Observation
Checklist item:	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.
Findings:	Engagement during the current year has not progressed beyond email updates. This limits demonstration of two-way dialogue and collaboration, which AWS views as essential for strong conformity.

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### Report Details

Report	Value
Report prepared by	Rupa Bidap
Report approved by	Carla Schmidt Oberdiek
Report approved on (Date)	02.December.2025

### Surveillance

Proposed date for next audit  
2026-Nov-01

### Stakeholder Announcements

Date of publication	Location
08/06/2025	ECOLAB Website
01/06/2025	AWS Website
Comment	<p>The site published a formal stakeholder announcement in advance of the AWS audit, ensuring transparency and compliance with AWS requirements.Additional notices were displayed in the site's front lobby.</p> <p>The announcement was issued on two websites - ECOLABS corporate website - (August 6th 2025 - <a href="https://www.ecolab.com/corporate-responsibility/environment/water-stewardship">https://www.ecolab.com/corporate-responsibility/environment/water-stewardship</a>) AWS website - ( January 6th 2025)</p>
Comment	As part of the AWS re-certification audit, the audit team conducted stakeholder interviews.



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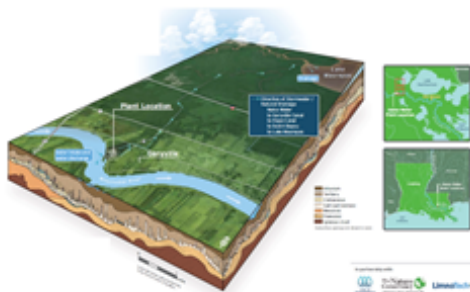
### Catchment Information



Nalco Garyville Catchment 2.jpeg



Nalco Garyville Catchment 3.png



Nalco Garyville Catchment 1.jpeg

### Catchment Information

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The Nalco Water Garyville facility is located within the Hope Canal–Pipeline Canal Sub-watershed (HUC 12: 080702040302), which is part of the Lower Mississippi–Lake Maurepas Watershed (HUC 08070204) in southeastern Louisiana. The site lies between Baton Rouge and New Orleans, adjacent to the Mississippi River, within an area of concentrated petrochemical and industrial activity.

The site sources water primarily from the Mississippi River, both directly and indirectly - withdrawn directly from the Mississippi River at the site intake for industrial processes. This water is lime-softened, clarified, and filtered on-site to produce Treated River Water (TRW), used for vessel washouts and as feedwater for deionized water production.

The site also receives potable water from the St. John the Baptist Parish Lions Water Treatment Plant (2062 LA-44, Reserve, LA 70084), which also withdraws from the Mississippi River, approximately 4 miles downstream.

Permitted wastewater (Outfall 001) discharges directly back to the Mississippi River after on-site treatment.

Stormwater drains to the Garyville Canal, which flows into Lake Maurepas, a secondary receiving water body not within the immediate HUC boundary but hydrologically connected. The wastewater is treated onsite and is then directed back to the Mississippi River. Stormwater is discharged to the Garyville canal which drains to Lake Maurepas. Although Lake Maurepas does not fall under site's catchment map, it is important to note since it is one of the site's discharge points. Additionally, it is an area that the site affects since they are releasing water into this lake.

Groundwater Aquifers - The site does not utilize groundwater for its operations. All water is sourced from the Mississippi River system (surface water). No aquifer extraction or recharge interaction is reported.

Catchment Water Service Providers - The St. John the Baptist Parish Lions Water Treatment Plant supplies potable water to the facility. The plant withdraws and treats water from the Mississippi River and distributes it one Evonik Stockhausen facility. Treated wastewater from the site is discharged directly into the Mississippi River through permitted outfalls in accordance with NPDES requirements. Stormwater from the facility drains into the Garyville Canal, which connects to Lake Maurepas.

The Lower Mississippi–Lake Maurepas watershed is characterized by - Large alluvial plain with high sediment load and tidal influence; major riverine flow from the Mississippi River.

Heavily industrialized corridor hosting refineries, chemical plants, and logistics hubs. The area is low-lying and prone to flooding, especially during tropical storms and river crest events.

Proximity to Lake Maurepas and wetland habitats with ecological importance for fish and migratory birds.

Humid subtropical, with annual precipitation exceeding 60 inches.

Overall low water scarcity but high water quality risks due to industrial discharges and nutrient loading.

Managed through levees and canals; no known inter-basin transfers.

Comment Catchment Name - Mississippi River Basin and Hope Canal Pipeline Canal.

### Client Description and Site Details

#### Client/Site Background

Information has been redacted for confidentiality reasons

Comment Site Map - Nalco Water Ecolab Granville

### Summary of Shared Water Challenges

#### Summary of Shared Water Challenges

At the Garyville site, shared water challenges have been identified through stakeholder engagement, review of catchment-level data, and risk assessments. These challenges are interconnected and reflect the broader conditions of the Mississippi River Basin.

##### Water Quality Degradation

Water quality is a major shared concern across the Mississippi River Basin. The region experiences elevated nutrient and contaminant loads—particularly nitrates, phosphates, heavy metals (e.g., zinc), and suspended solids—largely from agricultural runoff, industrial discharges, and stormwater events. These pollutants contribute to eutrophication and the formation of the Gulf of Mexico hypoxic zone. The site acknowledges this challenge and intends to maintain a dynamic risk assessment.

##### Flooding and Storm Surge Risk

The site's proximity to Lake Pontchartrain and the Mississippi River places it within a high flood-risk zone. Seasonal storms and tropical systems can cause riverine flooding and storm surges, exacerbated by inadequate drainage and wetland loss.

##### Natural Disasters and Climate Extremes

The site faces recurrent hurricane exposure, storm surge, and periodic freeze events linked to shifting climate patterns. These events not only disrupt site operations but also impact neighboring industries, utilities, and local populations.

##### Water Infrastructure Limitations

Aging or undersized water and wastewater infrastructure in parts of St. John the Baptist Parish poses shared risks of supply interruption, contamination, and inadequate treatment capacity.

##### Land Subsidence and Wetland Loss

The region experiences ground subsidence due to historical extraction of groundwater, oil, and gas, as well as sediment compaction. Combined with wetland degradation from development and pollution, this process reduces natural flood protection and increases vulnerability to storm surges. Wetland conservation and restoration are therefore shared priorities among local industries, parishes, and environmental organizations.

##### Chemical and Industrial Spills

The high density of industrial operations along the Mississippi River corridor increases the risk of chemical spills and accidental releases that can affect both surface and groundwater. Shared preparedness measures—including improved containment, emergency planning, and community notification systems—are essential to minimize potential impacts.

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0.0.1	Water Source & Discharge Locations
0.01	<div><div><i>Have any water source or discharge locations been visited during the audit, if so, which and where? If none were visited, please provide justification.</i></div><div><div><div>Yes</div><div></div></div></div></div>
Comment	<div><p>Yes, on-site verification of both water source and discharge points associated with the Nalco Water – Ecolab Garyville facility were conducted.</p><p>The audit team visited the main water intake connection from the St. John the Baptist Parish Lions Water Treatment Facility, which supplies potable water drawn from the Mississippi River. The audit confirmed the integrity of the connection, flow metering, and associated infrastructure for supply monitoring.</p><p>Process and Utility Areas - On-site verification included observation of cooling tower operations, boiler feed systems, and process water treatment units, confirming appropriate segregation and reuse pathways.</p><p>Wastewater Discharge - The on-site wastewater treatment system and its discharge point to the Mississippi River were inspected to verify operational controls, pH neutralization processes, and effluent sampling arrangements.</p><p>Stormwater Drainage - The audit also included a walkthrough of stormwater conveyance areas leading to the Garyville Canal.</p></div>

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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	<i>The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:</i> <ul style="list-style-type: none"> <li>- Site boundaries;</li> <li>- Water-related infrastructure, including piping network, owned or managed by the site or its parent organization;</li> <li>- Any water sources providing water to the site that are owned or managed by the site or its parent organization;</li> <li>- Water service provider (if applicable) and its ultimate water source;</li> <li>- Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies;</li> <li>- Catchment(s) that the site affect(s) and is reliant upon for water.</li> </ul>	 Yes
Comment	Information has been redacted for confidentiality reasons	
1.2	<i>Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.</i>	
1.2.1	<i>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</i> <ul style="list-style-type: none"> <li>- Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;</li> <li>- Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;</li> <li>- Provide evidence of stakeholder consultation on water-related interests and challenges;</li> <li>- Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;</li> <li>- Identify the degree of stakeholder engagement based on their level of interest and influence.</li> </ul>	 Yes
Comment	Information has been redacted for confidentiality reasons	
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>	 Yes
Comment	Information has been redacted for confidentiality reasons	
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>	 Yes
Comment	Information has been redacted for confidentiality reasons	
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Yes

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WSAS

WATER  
STEWARDSHIP  
ASSURANCE  
SERVICES

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Comment	Information has been redacted for confidentiality reasons	
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>	Obs.
Comment	Information has been redacted for confidentiality reasons	
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>	Yes
Comment	Information has been redacted for confidentiality reasons	
1.3.5	<i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	
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>	Yes
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	
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>	Yes
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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

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Comment	Information has been redacted for confidentiality reasons	
<b>1.5.2</b>	<i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.5.3</b>	<i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i>	 Obs.
Comment	Information has been redacted for confidentiality reasons	
<b>1.5.4</b>	<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>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.5.5</b>	<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>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.5.6</b>	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.5.7</b>	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.6</b>	<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>	
<b>1.6.1</b>	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.6.2</b>	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.7</b>	<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>	
<b>1.7.1</b>	<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>	 Yes
Comment	Information has been redacted for confidentiality reasons	



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<b>1.7.2</b>	<i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.8</b>	<i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i>	
<b>1.8.1</b>	<i>Relevant catchment best practice for water governance shall be identified.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.8.2</b>	<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
Comment	Information has been redacted for confidentiality reasons	
<b>1.8.3</b>	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.8.4</b>	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>1.8.5</b>	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	



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2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<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>	
2.1.1	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <ul style="list-style-type: none"> <li>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</li> <li>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</li> <li>- That the site's stakeholders will be engaged in an open and transparent way</li> <li>- That the site will allocate resources to implement the Standard.</li> </ul>	 Yes
Comment	Information has been redacted for confidentiality reasons	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <ul style="list-style-type: none"> <li>- Identification of responsible persons/positions within facility organizational structure</li> <li>- Process for submissions to regulatory agencies.</li> </ul>	 Yes
Comment	Information has been redacted for confidentiality reasons	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<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>	 Yes
Comment	Information has been redacted for confidentiality reasons	
2.3.2	<i>A water stewardship plan shall be identified, including for each target:</i> <ul style="list-style-type: none"> <li>- How it will be measured and monitored</li> <li>- Actions to achieve and maintain (or exceed) it</li> <li>- Planned timeframes to achieve it</li> <li>- Financial budgets allocated for actions</li> <li>- Positions of persons responsible for actions and achieving targets</li> <li>- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.</li> </ul>	 Obs.
Comment	Information has been redacted for confidentiality reasons	
2.4	<i>Demonstrate the site's responsiveness and resilience to respond to water risks</i>	

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2.4.1	<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>	<div><div></div><div>Yes</div></div>
Comment	Information has been redacted for confidentiality reasons	

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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
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
3.3.3	Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.	↓ N/A
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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

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Comment	Information has been redacted for confidentiality reasons	
<b>3.5</b>	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
<b>3.5.1</b>	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	
<b>3.6</b>	<i>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.</i>	
<b>3.6.1</b>	<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
Comment	Information has been redacted for confidentiality reasons	
<b>3.6.2</b>	<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
Comment	Information has been redacted for confidentiality reasons	
<b>3.7</b>	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
<b>3.7.1</b>	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	
<b>3.7.2</b>	<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
Comment	Information has been redacted for confidentiality reasons	
<b>3.8</b>	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>	
<b>3.8.1</b>	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	
<b>3.9</b>	<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>	
<b>3.9.1</b>	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>	Yes
Comment	Information has been redacted for confidentiality reasons	





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<b>3.9.2</b>	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>3.9.3</b>	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	
<b>3.9.4</b>	<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
Comment	Information has been redacted for confidentiality reasons	
<b>3.9.5</b>	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	Information has been redacted for confidentiality reasons	

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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>	✓ Yes
Comment	Information has been redacted for confidentiality reasons	
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	✓ Yes
Comment	Information has been redacted for confidentiality reasons	
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	✓ Yes
Comment	Information has been redacted for confidentiality reasons	
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
Comment	Information has been redacted for confidentiality reasons	
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>	Q Obs.
Comment	Information has been redacted for confidentiality reasons	
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
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5	STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts	
5.1	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.	
5.1.1	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.	Yes
Comment	Information has been redacted for confidentiality reasons	
5.2	Communicate the water stewardship plan with relevant stakeholders.	
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.	Obs.
Comment	Information has been redacted for confidentiality reasons	
5.3	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.	
5.3.1	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.	Yes
Comment	Information has been redacted for confidentiality reasons	
5.4	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.	
5.4.1	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.	Yes
Comment	Information has been redacted for confidentiality reasons	
5.4.2	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.	Obs.
Comment	Information has been redacted for confidentiality reasons	
5.5	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.	
5.5.1	Any site water-related compliance violations and associated corrections shall be disclosed.	Yes
Comment	Information has been redacted for confidentiality reasons	
5.5.2	Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.	Yes
Comment	Information has been redacted for confidentiality reasons	


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5.5.3	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.	 Yes
Comment	Information has been redacted for confidentiality reasons	

Previous Findings

	All non-conformities raised in the previous audit have been satisfactorily closed.	 Yes
Comment	Information has been redacted for confidentiality reasons	