

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)



Audit Number: AO-001673

SITE DETAILS

Site: **Mengniu Hi-tech Dairy Wuhan Co., Ltd.**

Address: No. 27 Dongwu Avenue, Dongxihu District, Wuhan, Hubei Province, 430040, Wuhan, Hubei, P.R. CHINA

Contact Person: Yunyun Hao

AWS Reference Number: AWS-000816

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Gold

Date of certification decision: 2025-Oct-22

Validity of certificate: 2028-Oct-21

AUDIT DETAILS

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

Audit Type(s): Initial Audit

Audit Start Date: 2025-Jul-21

Audit End Date: 2025-Jul-23

Lead Auditor: Lorry Long

Audit team participants:

Nemo Fang

Site Participants:

Ms. Hao, Corporate Sustainability

Mr. Wang, SHE Manager

Mr. Zuo, Supply chain and Logistics Manager

Mr. Wang, Operations manager

Mr. Huang, Equipment Senior Supervisor

Mr. An, Equipment and Energy Technology

TUV Rheinland (Guangdong) Ltd.

No. 199 Kezhu Road Guangzhou Science City/Guangzhou, UNITED

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ADDITIONAL INFO

Summary of Audit Findings: During the certification audit 3 of non-conformities and 1 observation 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 7 days of receipt of the audit report by 30/07/2025.

The non-conformities must be closed within 90 days of the end of the audit. In order to meet this timeline evidence is to be submitted to WSAS (within 75 days) [by 06/10/2025].

The audit team recommends certification of Mengniu High Tech Dairy Products Wuhan Co., Ltd. at Gold level pending approval of the corrective actions plan and closure of the non-conformities.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing conformity of Mengniu High Tech Dairy Products Wuhan Co., Ltd. against the AWS International Water Stewardship Standard Version 2.

The site, Mengniu High Tech Dairy Products Wuhan Co., Ltd. was established in January 2019, is located at No. 27, Dongwu Avenue, Dongxihu District, Wuhan City, Hubei Province, China, covering the land area of 240000 square meters, with about 390 employees. The site includes 22 production lines, the production capability is 1384 tons per day. The site is a Dairy plant, and their products cover a variety of Dairy products, including Chilled Fermented Milk, Dairy Beverage, Flavored Drink. The manufacturing process mainly includes sterilizing, filling, packing.

The site only uses municipal water supplied by Wuhan Dongxihu Zoumaling Water Plant; Wuhan Dongxihu Yushidun Water Plant and Wuhan Dongxihu Baihezui Water Plant were the backup water supply infrastructures, and their ultimate water source were Hanjiang River. The wastewater generated in the site includes industrial wastewater and domestic sewage. The site also has one wastewater water treatment plant. The wastewater will be treated by onsite WWTP, and then discharged into Wuhan Dongxihu Wastewater Treatment Co., Ltd for further treatment. Afterwards, it was discharged into the Fuhe River and eventually merged into Yangtze River.

The audit was conducted onsite on 21-23/07/2025.

The onsite site visit included the site visit covering production lines, wastewater treatment plant, chemical warehouse and IWRA, stakeholder interviews, and documents review.

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	1
Non-Conformity	3

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FINDING DETAILS

Finding No:	TNR-020991
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:	It is suggested the site to collect the water balance of the catchment,
Finding No:	TNR-019587
Checklist Item No:	1.6.1
Status:	Closed
Finding level:	Non-Conformity
Due date:	2025-Oct-24
Checklist item:	Shared water challenges shall be identified and prioritized from the information gathered.
Findings:	The shared water challenge is more based on the site's own investigation and analysis, and the site did not fully consult with stakeholders.
Corrective action:	The site would collect feedback from the identified internal stakeholders, raw and auxiliary material suppliers, and important surrounding enterprises through questionnaire surveys and collect feedback from local communities and government departments through face-to-face communication, then reach a consensus.
Evidence of implementation:	The site communicates water challenges with various stakeholders through face to face communication and questionnaires, including local ecological environment bureaus, fresh water service provider, local committee, surrounding enterprises, suppliers and employees. Through the interviews and questionnaires, stakeholders also shared water challenges and reached consensus. The site faces the following Shared Water Challenges: 1. Surface water pollution affects the lives of the residents in the surrounding areas. Level 5 2. There is a risk of flood disasters, and the flood control and drainage standards are not perfect. Level 4 3. The intensification of climate change may lead to frequent extreme weather events. Level 3 4. The local water source quality is unstable, and the municipal water supply quality is not very good. level 2 5. The cost of water use and drainage may increase. level 1 The site has prioritized these shared challenges. The risk levels range from low (Level 1) to high (Level 5). The risk level is determined by the degree of attention, impact, and consequences.

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Finding No:	TNR-019339
Checklist Item No:	2.3.5
Status:	Closed
Finding level:	Non-Conformity
Due date:	2025-Oct-24
Checklist item:	Advanced Indicator Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be identified.
Findings:	The site had not sought the stakeholders on the site's water stewardship plan to achieve the consensus.
Corrective action:	The site would collect feedback from the identified internal stakeholders, raw and auxiliary material suppliers, and important surrounding enterprises through questionnaire surveys and collect feedback from local communities and government departments through face-to-face communication, then reach a consensus.
Evidence of implementation:	The site communicates its sustainable water stewardship plan with various stakeholders through face to face and questionnaires, including freshwater service provider, local ecological environment bureaus, local committee, suppliers and surrounding enterprises. Via the interview, the stakeholders also agreed the actions and targets in the WSP and did not have additional request.
Finding No:	TNR-019640
Checklist Item No:	4.3.1
Status:	Closed
Finding level:	Non-Conformity
Due date:	2025-Oct-24
Checklist item:	Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.
Findings:	The site did not collect feedback from stakeholders on its water stewardship performance, nor did it assess the effectiveness of its stakeholder engagement process
Corrective action:	The site would collect feedback from the identified internal stakeholders, raw and auxiliary material suppliers, and important surrounding enterprises through questionnaire surveys and collect feedback from local communities and government departments through face-to-face communication, then reach a consensus.
Evidence of implementation:	The site communicates its sustainable water stewardship performance with various stakeholders through face to face communication and questionnaires, including local ecological environment bureaus, fresh water service provider, local committee, surrounding enterprises, suppliers and employees. Via the interview, the stakeholders approved the site's water stewardship performance and did not have additional request.

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Report Details

Report	Value
Report prepared by	Lorry Long
Report approved by	Ruth Wandera
Report approved on (Date)	22 October 2025

Surveillance

Proposed date for next audit
2026-Jul-20

Comment The first surveillance audit is proposed to be performed on July 20, 2026

Stakeholder Announcements

Date of publication	Location
15/05/2025	https://a4ws.org/wp-content/uploads/2025/05/AWS-000816_Single-site_StakeholderAnnouncement_V3.0-bilingual.pdf
22/05/2025	https://view.officeapps.live.com/op/view.aspx?src=https%3A%2F%2Fwww.tuv.com%2Fcontent-media-files%2Fgreater-china%2Fabout-us%2Fdownloads%2Faws-000816_wuhan-single-site_stakeholderannouncement_v3.0-bilingual.docx&wdOrigin=BROWSELINK
23/05/2025	https://www.mengniu.com.cn/contact/detail/23594.html

Catchment Information

Catchment Information

Based on the source of water and the final discharge destination, the physical boundary for water stewardship conducted by the site is determined to be the Hanjiang River and Fuhe River basins, with a focus on the relevant areas within a physical radius of 20 kilometers centered on the site. The Hanjiang River and Fuhe River are tributaries of the Yangtze River. The Hanjiang River is the longest tributary of the Yangtze River in China. It originates from Mount Bazhong (elevation 1617 meters) in Ningqiang County, Hanzhong City, Shaanxi Province. Flowing from west to east through the southern part of Shaanxi Province and the northwestern and central parts of Hubei Province, it finally merges into the Yangtze River at Longwangmiao in Hankou, Wuhan. The Hanjiang River is 1532 kilometers long, with a basin area of 159,000 square kilometers, accounting for 8.5% of the total area of the Yangtze River basin.

The Fuhe River, also known as the Yun River, is one of the northern tributaries of the Hanjiang River. It originates from the northern foot of Mount Dahong in Suizhou City, Hubei Province. Flowing from west to east through Suizhou, Anlu, Yunmeng, Xiaogan, and other places, it finally merges into the Yangtze River at Paikou in Huangpi District, Wuhan. The Fuhe River is about 240 kilometers long, with a basin area of about 12,000 square kilometers.

Wuhan is located in the middle reaches of the Yangtze River and the eastern part of the Jiangnan Plain, serving as the core hub that connects the eastern and western parts of the Yangtze River Catchment. The Yangtze River Catchment stretches across the middle part of China, starting from the Geladandong Snow Peak of the Tanggula Mountains in the west, facing the East China Sea in the east, bordered by the Bayan Har Mountains, the Qinling Mountains, the Funiu Mountains, and the Dabie Mountains to the north, which separate it from the Yellow River and Huaihe River basins, and adjacent to the Pearl River basin to the south via the Yunnan-Guizhou Plateau and the Nanling Mountains. The middle reaches of the Yangtze River begin downstream of Yichang, where it converges with important tributaries such as the Hanjiang River, the Dongting Lake system, and the Poyang Lake system. The basin area is approximately 560,000 square kilometers. The western, northern, and southeastern parts of the region are low mountains and hills, accounting for about 30% of the total area; the rest are alluvial plains of rivers and lakes, forming the main body of the Two Lakes Plain and connecting with the downstream Jianghuai Plain to create the largest alluvial-lake plain belt in the middle reaches of the Yangtze River, which is one of the most economically dense golden water areas in China.

Within Wuhan, rivers crisscross and lakes and ports interweave. The main water system consists of the main streams of the Yangtze River and the Hanjiang River, as well as tributaries such as the Tongshun River, the Paishui River, the Daoshui River, the Ju River, the Jin River, and the Dongjing River. The Yangtze River section in Wuhan is 145.9 kilometers long, and the Hanjiang River section is 62 kilometers long. The confluence of the two rivers in the city center forms the unique layout of the Three Towns of Wuhan. The main rivers that pass through the urban area and its suburbs include the Hanjiang River, the Xunsi River, the Fuhe River, the Dongjing River, the Qingshan Port, and the Luojiaport River. Together with over a hundred lakes such as the East Lake, the South Lake, the Tangxun Lake, the Houguan Lake, and the Ye Lake, they form the unique water network pattern of the "City of a Hundred Lakes" and the "confluence of the Yangtze and Hanjiang Rivers."

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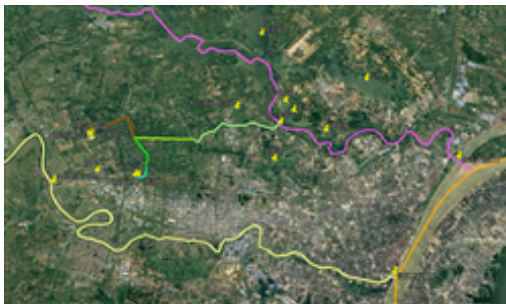
Catchment boundary.jpg

Client Description and Site Details

Client/Site Background

The site, Mengniu High Tech Dairy Products Wuhan Co., Ltd. was established in January 2019, is located at No. 27, Dongwu Avenue, Dongxihu District, Wuhan City, Hubei Province, China, covering the land area of 240000 square meters, with about 390 employees. The site includes 22 production lines, the production capability is 1384 tons per day. The site is a Dairy plant, and their products cover a variety of Dairy products, including Chilled Fermented Milk, Dairy Beverage, Flavored Drink. The manufacturing process mainly includes sterilizing, filling, packing.

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1.1.1 Site boundaries Map.png

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Summary of Shared Water Challenges

Summary of Shared Water Challenges

The site faces the following Shared Water Challenges:

1. Surface water pollution affects the lives of the residents in the surrounding areas. Level 5
2. There is a risk of flood disasters, and the flood control and drainage standards are not perfect. Level 4
3. The intensification of climate change may lead to frequent extreme weather events. Level 3
4. The local water source quality is unstable, and the municipal water supply quality is not very good. level 2
5. The cost of water use and drainage may increase. level 1

The site has prioritized these shared challenges. The risk levels range from low (Level 1) to high (Level 5). The risk level is determined by the degree of attention, impact, and consequences.

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1 STEP 1: GATHER AND UNDERSTAND

1.1 *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.*

1.1.1 *The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:*

- 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.



Yes

Comment The site has developed a Background Investigation Report, and it contains the physical scope of the site.
It contains:

- Map of site boundaries with the source of water supply and discharge points of wastewater and rainwater.
- Map of water-related infrastructures at the site such as pipeline, wastewater treatment plant.
- Map of water supply (Wuhan Dongxihu Zoumaling Water Plant, main water supply infrastructure; Wuhan Dongxihu Yushidun Water Plant and Wuhan Dongxihu Baihezui Water Plant, backup water supply infrastructures) and their ultimate water source (Hanjiang River, Wuhan City).
- Map of municipal WWTP (Wuhan Dongxihu Wastewater Treatment Co., Ltd.) and its ultimate receiving water body (Fuhe River).
- Map of catchment that the site affects and is reliant upon for water. (Yangtze River Catchment, Hanjiang River and Fuhe River sub-catchment)

1.2 *Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.*

1.2.1 *Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:*

- 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.



Yes

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Comment	The site has established AWS Management Manual (Document No.: MICS035-9.5.4-3-2025-0, issue date: 20 March 2025), identification scope of stakeholders is clarified. The site has identified stakeholders such as the government, employees, NGOs, surrounding residents, suppliers, infrastructures, and surrounding companies. The site has developed an analysis table of stakeholders, and has established diversified communication channels with different stakeholders, such as phone calls, e-mails, meetings, questionnaires, visits, supplier reviews, and government official websites. The site also consulted different types of stakeholders on the shared water challenge through questionnaires.	
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	The site has developed an analysis table of stakeholders, the degree of influence between site and stakeholder has been identified of each stakeholder.	
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	The site has developed an comprehensive response plan for environmental emergencies, including special emergency response plans for chemical and hazardous waste leakage and its decontamination wastewater treatment, waste water pipeline leakage, which are all related to water. The plan has registered with Wuhan Ecological Environment Bureau Dongxihu Sub-Bureau, No.420112-2024-32-L. The site has prepared a comprehensive emergency plan for production safety, including response procedures for natural disasters (such as flood, rainstorm, typhoon and earthquake). The site has also developed a water cut-off emergency plan, identified the response process for sudden water supply anomalies such as water quality abnormalities, power outages, water supply pipeline leaks, water supply facility failures, and water storage facility leaks at the site. The site prepares an emergency drill plan every year, which includes all the drill needs planned for the year (including water-related emergency drills), and the drill topics, participants, drill time, etc. are defined.	
1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Yes
Comment	The site has recorded the income and input and output data via meter reading, evaporated water and loss water via estimation or calculation, and developed a water balance map based on the data. The water balance map reflected the water inflows, losses, reuses and outflows. The site tracks the readings of each water meter every day and carries out water balance analysis every year.	
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
Comment	The site has recorded the income and input and output data via meter or estimation, and developed a water balance map based on the data. The water balance map reflected the water inflows, losses, reuses and outflows. The site tracks the readings of each water meter every day and carries out water balance analysis every year. The input, loss, storage and output of water are quantified. And analyzed the annual trend of changes. The different of water balance in 2024 was 1.04%.	

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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	The site has developed a water quality monitoring inventory, which includes monitoring requirements for sewage, incoming water, drinking water, recycled water, and pure water for production, including monitoring points, monitoring methods, pollutant names, monitoring frequency, and control standards. For example: - Domestic wastewater and industrial wastewater: • According to the requirements of the wastewater discharge permit, the site regularly entrusts a third-party laboratory to test the discharged wastewater • The site has installed online monitoring facilities at the wastewater discharge outlet to monitor pH, COD, ammonia nitrogen, TN and TP in real-time • Internal laboratory conducts daily testing of industrial wastewater discharge outlet and wastewater treatment processes - Drinking water • The site entrusts a third-party laboratory twice a year to test the water quality of the secondary water supply in the site area. • The site provides employees with free drinking water, equipped with 25 water dispensers, and entrusts a third-party laboratory twice a year to test the quality of drinking water, in accordance with the standard: Drinking Water Hygienic standard (GB5749) and National food safety standards-limits of contaminants in food (GB2762) Environmental water quality • The South Fourteenth Branch Valley River which eventually flowed into the Fuhe River was the receiving water bodies for rainwater and wastewater. The site entrusts a third-party laboratory to monitor the water quality of the river every year. The sampling points are upstream and downstream of the discharge outlet of the offsite wastewater treatment plant. The monitoring items are pH, COD, ammonia nitrogen, TN and TP. All of the testing reports are below the limit, and the variance is not obvious.	
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	The site has established a chemical inventory, which includes information on the names, suppliers, uses, quantities, storage locations, quantities, and compatibility of the chemicals used on the site. And a map was drawn, identifying and marking the storage and use areas of chemicals. The site has compiled a inventory of rainwater pollution sources, identified potential sources of rainwater pollution, including sewage treatment stations, hazardous waste warehouses, chemical warehouses, chemical storage areas, wastewater storage tanks, and dangerous chemical tanks, and drew a distribution map of potential pollution sources. In addition, the site has also drawn diagrams of domestic and industrial wastewater pipelines, including the layout of the wastewater pipeline network, wastewater treatment facilities, and the location of wastewater tanks.	
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	As per the site tour, document review, and interview, no IWRA is within the site.	
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

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Comment	The water-related costs sheet was provided for review, including 1. Water supply invoice 2. Cost of wastewater discharge rights 3. Outsourcing cost of Water/Wastewater Treatment (including electricity of pumps, consumables, depreciation and maintenance of facilities, etc.) 4. Water/wastewater/rainwater quality testing, peripheral water testing. Operation and maintenance of wastewater online testing facilities 5. AWS related expenses The water-related revenues included: Income from frugal projects and the social, cultural, environmental, and economic water-related value generated by the site.	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	The site provides dormitories and canteen for employees. Sanitation and hygiene installations and water purifiers are also installed at office buildings, dormitory areas and all workshops. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). The site also conducts WBCSD self-assessment to evaluate the level of onsite WASH. The result is satisfied.	
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	The site identified and screened the top 91 suppliers with transaction amounts. and through the investigation questionnaires. The site analyzed the water related risk level of suppliers by the intensity of water consumption, water management, Environmental violation records, WWF water risk screening results. For suppliers within the catchment, in addition to the above information, the site also requires suppliers to provide wastewater discharge test reports. The total annual water consumption of the 3 suppliers within the catchment is approximately 32,500 tons. The indirect water consumption of raw materials associated with the site is 300000 tons (based on data provided by the Top 50 suppliers)	
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	The site also collects the water consumption of its outsourced services such as hazardous waste disposal unit (15000 m3 in Y2024) and non-hazardous waste disposal unit (369m3 in Y2024) through questionnaires. Other service providers utilize the site's water to deliver their service, such as there was onsite car wash for vehicle washing.	
1.4.3	<i>Advanced Indicator</i> <i>The embedded water use of primary inputs in catchment(s) of origin shall be quantified.</i>	 Yes
Comment	The site identified and screened the item that accounts for over 3% of the total cost of the final product (including inside and outside of the site's catchment). The site analyzed the water related risk level of suppliers by the intensity of water consumption, water management, Environmental violation records, WWF water risk screening results. Via the data of suppliers' total water consumption, the production volume and production volume proportion, the site could calculate the embedded water use of the main suppliers. The embedded water use of materials is about 3417919 tons by calculation (based on data provided by suppliers and average water consumption in the industry).	

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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
Comment	Water governance initiatives were identified in Catchment Background Survey Report provided by the site; The initiatives included national, provincial and local level, including the catchment development plan, industrial development plan, environmental and ecological conservation plan etc.	
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
Comment	The site presents a list of laws and regulations that contain all legal actions. The document is used by the site to monitor the status of each of the site's legal obligations.	
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>	 Obs.
Comment	The water balance of the catchment is not available. The Catchment Background Survey Report uses the water balance data of Wuhan City as a simulation, and provides a detailed analysis of water balance from 2022 to 2024. The water balance is analyzed based on the rainfall (mm), precipitation (m3), surface water resources (m3), groundwater resources(m3), water diversion (m3), displacement(m3), storage(m3), consumption(m3), total water supply (m3) and total water consumption(m3). All the data is collected from government website and publishing report. According to existing data, in 2024, the precipitation was 10.749 billion cubic meters. The inflow of water into Wuhan city was 691.5 billion cubic meters, including 684.3 billion cubic meters from the Yangtze River and Hanjiang River Basin and 7.2 billion cubic meters from the small and medium-sized rivers within the territory. According to statistical data, the amount of groundwater resources remains stable and follows the same trend as precipitation changes. And the usage of groundwater resources is relatively low and has been decreasing year by year since 2022. The groundwater usage in Wuhan City in 2024 is only 1 million cubic meters. In 2024, the total water supply and consumption in Wuhan City was 4.616 billion cubic meters, a increase of 3.38% compared to 2023, 90.42% was from surface water. Overall, the rainfall and the volume of water passing through Wuhan City are quite abundant, the local water resources in Wuhan City are sufficient.	
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>	 Yes
Comment	The Catchment Background Survey Report provides a detailed analysis of water quality for the Wuhan City, (covered the nearby area of the catchment). The site obtained the relate information from the government website. (Mainly from the Environmental and Ecological Bureau). The data includes the water quality of the water source, the final discharged water body, the water from municipal water plant. The data will be published monthly or annually, therefore, the annual variances could be identified. In recent years, the surface water environment quality in Wuhan City has continued to improve. The water quality of main water source area in Wuhan city has not experienced any water quality non-compliance in recently 3 years.	

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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>	 Yes
Comment	The Catchment Background Survey Report lists the Important Water-Related Area of the catchment. The Important Water-Related Areas are collected from government published documents, including 'Ecological protection red line of Wuhan Province', 'Ecological environment zoning of three lines and one list'. The status of the IWRAs are collected from the management authorities and described in the list.	
1.5.6	<i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i>	 Yes
Comment	The Catchment Background Survey Report lists the existing and planned water-related infrastructure including water supply, condition and potential exposure to extreme events, flood control and drainage, wastewater treatment, emergency response at provincial, catchment and city levels and water-related objectives. Based on the available information, the water-related infrastructure in the catchment is relatively good.	
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	The facility obtained the WASH status in Wuhan from Wuhan Statistical Yearbook for 2023, including the tap water penetration rate, wastewater treatment rate and other data. The data could cover the area of the WASH status of catchment. Overall, the WASH services are good in Wuhan City.	
1.5.8	<i>Advanced Indicator Efforts by the site to support and undertake catchment level water-related data collection shall be identified.</i>	 Yes
Comment	The site entrusts third-party laboratories for annual water quality testing on the South Fourteenth Branch Valley River (which was the final receiving bodies for rainwater and wastewater, and it eventually flowed into the Fuhe River). The testing standards are based on the Surface Water Environmental Quality Standard GB3838-2002, and the testing parameters include pH, COD, ammonia nitrogen, TN and TP. The test report is shared with stakeholders such as municipal wastewater treatment infrastructure and surrounding enterprises.	
1.5.9	<i>Advanced Indicator The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified.</i>	 Yes
Comment	The site has identified adequacy of WASH provision within the catchments of origin of primary inputs including the coverage of safety drinking water supply, the coverage of wastewater treatment, the rate of security disposal of municipal solid waste, and public facilities and environmental sanitation in urban districts.	
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>	 No
Comment	The shared water challenge is more based on the site's own investigation and analysis, and the site did not fully consult with stakeholders.	

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1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	Initiatives to address shared water challenges are included in the Catchment Background Report identifies the shared challenges within the catchment.	
1.6.3	<i>Advanced Indicator Future water issues shall be identified, including anticipated impacts and trends</i>	 Yes
Comment	The site analyzed the trends in population changes, agricultural, industrial, and domestic water use changes, climate, and ecological environment changes within the catchment by querying reports published by government or academic institutions. And based on research reports and WWF, WRI water risk analysis models, predictions were made for future water issues in the basin. Overall, by 2030, the shortage of water resources in the watershed can gradually intensify, and the water quality problem in the catchment will continue to exist.	
1.6.4	<i>Advanced Indicator Potential water-related social impacts from the site shall be identified, resulting in a social impact assessment with a particular focus on water.</i>	 Yes
Comment	The facility has developed "Social Impact Assessment of Mengniu Hi-tech Dairy Wuhan Co., Ltd.", which identified the potential water-related social impacts of the site.	
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>	 Yes
Comment	The site identified its water risks and summarized them in a spreadsheet. They categorized the water risk into physical risk, regulatory risk and reputation risk. The spreadsheet that lists the water risks faced by the site. The site scored the frequency of the risk and severity of the impact, and then multiple two scores to evaluate the level of the risk. The potential impact and control measures are also included in the spreadsheet.	
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>	 Yes
Comment	The site has identified 5 major business opportunities considering how the site may participate. The potential value includes cost saving, image enhancement, sustainability of enterprise operation, and customer trust, and ranked their importance.	
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
Comment	The facility has established a best practices list to collect the best practices towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH. Example collected like: Sustainable water management activities are sustained within the organization and in the watersheds in which it operates, in accordance with AWS version 2.0.	
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

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Comment	The facility has established a best practices list to collect the best practices towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH. Example collected like: Rainwater harvesting and reuse technologies.	
1.8.3	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes
Comment	The facility has established a best practices list to collect the best practices towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH. Example collected like: Through the project after deep treatment of water, can reach the clean level of urban tap water, in addition to secondary use in the factory, but also supply municipal for green watering and so on.	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	The facility has established a best practices list to collect the best practices towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH. Example collected like: Signed an agreement with the Local governments, and environmental groups to participate in the Project to Save Endangered Species in the neighboring region.	
1.8.5	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	 Yes
Comment	The facility has established a best practices list to collect the best practices towards achieving AWS outcomes including water governance, water balance, water quality, IWRA and WASH. Example collected like: Using the WBCSD evaluation form to evaluate the WASH level of the plant.	

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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> - 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.	 Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the top manager of Mengniu. The commitment includes all the necessary element and has been displayed on Mengniu' Website.	
2.1.2	<i>Advanced Indicator</i> <i>A statement that explicitly covers all requirements set out in Indicator 2.1.1 and is signed by the organization's senior-most executive or governance body and publicly disclosed shall be identified.</i>	 Yes
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the top manager of Mengniu. The commitment includes all the necessary element and has been displayed on Mengniu' Website. https://img.mengniu.com.cn/Uploads/Mnnew/File/2025/05/07/u681af26c056d6.pdf	
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> - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies.	 Yes
Comment	The site disclosed the information of its water management organizational structure and members of the compliance responsible team on its website. The site has prepared its own Sustainable Water Management Manual (M\CS035-9.5.4-3-2025-0), which defines the water management responsibilities of each department. The site has also established a procedure to ensure the operation of the site meets the provisions of relevant laws, regulations and other requirements, Compliance Obligations Identification and Compliance Assessment Control Procedure (SZA-9.4.7-4-2018-0).	
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

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Comment Mengniu Group has developed a water stewardship strategy. The strategy expounds the site's long-term plan for water stewardship in terms of standardized management, corporate social responsibility and implementation of best practices.

- Fully implement the national principle of "using water availability to determine city size, land use, population, and production capacity." With "strengthening management foundations and promoting diverse technologies" as levers, manage water across its entire life cycle—from intake and use to conservation.
- Center on the eight water-saving measures of 3U Water Strategy, embed lean-management methodologies into water governance, continuously explore and adopt new technologies, methods and processes, identify and evaluate every opportunity to raise water-use efficiency, and deploy best-available technologies and practices across all production and operating activities to achieve enduring water conservation.
- Set ambitious Group-wide water-use targets and track water-management performance over the long term through a robust set of indicators. 2030 Goals: Increase water-recycling rate by 5 % versus 2023 and Reduce water intake per ton of product by 10 % versus 2023
- Deliver regular training for all employees to raise water-management awareness and sharpen practical skills, empowering every employee to master targeted water-saving techniques and to devise innovative conservation solutions in their day-to-day work.
- Commit to providing safe, well-managed water, sanitation and hygiene (WASH) facilities at all workplaces, ensuring reliable access to safe drinking water and adequate personal-hygiene conditions for every employee.
- Enhances the transparency of its sustainable water management by regularly disclosing progress in public reports. Actively engage external stakeholders to keep our programs at the forefront of the industry and to ensure this Policy is reviewed and updated in a timely manner. The site develops annually Water Stewardship Plan rely on the group's water management strategy.

2.3.2 *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.*


Yes

Comment The site has developed a Water Stewardship Plan (Year 2024 and Year 2025), which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc.

The Water Stewardship Plan is associated with five main outcomes of AWS, including good water governance, sustainable water balance, good water quality status, IWRA and WASH, such as:

- Improve staff's water saving awareness through training
- Improve the indirect water use performance of the site by carrying out environmental assessment to suppliers
- Through continuous process improvement, ensure water use per ton products meet the advanced values of industrial water quota.
- The quality of the discharged wastewater meets 100% of the internal control requirements of the site, and the wastewater internal control index is lower than the wastewater discharge permit requirements.
- Use WBCSD to evaluate the WASH of the site and the final result received 75%.
- Organized river patrol activity at least twice each year.

2.3.3 *Advanced Indicator*

The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same organisational ownership) shall be identified and described.


Yes

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Comment 1. On June 5, 2025, the site attended On-site communication and training of Dongxihu District Pollution discharge management benchmark enterprise Building and the site shared the management experience in the training.
2. On March 22, 2025, the site organized a Beach cleaning public welfare activity in the water-intake of Hanjiang River with one brother company and one supplier in the same catchment.
3. On February 28, 2025, the site organized a Beach cleaning and Tree planting activity with one brother company in the same catchment.

2.3.4 *Advanced Indicator* ✔ Yes
The site's partnership/water stewardship activities with other sites in another catchment(s) (either under same corporate structure or with another corporate site) shall be identified.

Comment One May 20, 2025, the site visited and learned the AWS management experience in a brother company (in another catchment).
During May 14-16, 2025, a brother company (in another catchment) communicated the AWS management experience with the site.
The site and other brother companies (several companies in another catchment) shared the best practices quarterly through webinar

2.3.5 *Advanced Indicator* ✘ No
Stakeholder consensus shall be sought on the site's water stewardship plan. Consensus should be achieved on at least one target. A list of targets that have consensus and in which stakeholders are involved shall be identified.

Comment The site had not sought the stakeholders on the site's water stewardship plan to achieve the consensus.

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2.4 *Demonstrate the site's responsiveness and resilience to respond to water risks*

2.4.1 *A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.* ✔ Yes

Comment The site has established Emergency environmental emergency plan, it states the emergency environmental emergency process and business continuity strategy, the content covers chemical leakage, wastewater, solid waste, emergency shutdown, water shutdown, power outage, gas shutdown, storm weather emergency environment, etc. The emergency plan had been registered in Wuhan City Ecological and Environmental Bureau Dongxihu District Sub-Bureau.
The site has identified its water risks, and corresponding strategies to mitigate water risks are developed. The site developed these via study of the government's water-related plan or consultation with the government.

2.4.2 *Advanced Indicator* ✔ Yes
A plan to mitigate or adapt to water risks associated with climate change projections developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.

Comment The site has formulated a series of emergency plans to deal with water risks, including drought emergency plan, rainy season flood prevention emergency plan, flood emergency plan, rainstorm emergency plan and earthquake emergency plan.
The site also signed Coordinated Emergency Response Plan with local subdistrict, also including local subdistrict office, subdistrict police station and community neighborhood committee, clarified each party's responsibilities and actions during the climate change projections.

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3	STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	<i>Implement plan to participate positively in catchment governance.</i>	
3.1.1	<i>Evidence that the site has supported good catchment governance shall be identified.</i>	✓ Yes
Comment	1. The site actively cooperates with the government supervision department to conduct supervisory inspections and visits and attend the meetings organized by government. 3. The site has installed an online monitoring device to monitor its wastewater in real time, and regularly entrusts a third-party agency to test its wastewater and rainwater. 4. The site shared their AWS system with main suppliers, such as material suppliers, wastewater treatment service provider and etc. 5. The site has established a procedure to ensure the operation of Mengniu to meet the provisions of relevant laws, regulations and other requirements. And conducts compliance evaluation on laws and regulations every three months and keeps records. 6. In 2024 and 2025, the site invited third party company to conduct five AWS Standard System Training in the site through onsite and online. 7. In December 2023, the site was awarded the honor of National-level "Green Factory" by Industry and Information Technology Department.	
3.1.2	<i>Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.</i>	✓ Yes
Comment	1. The water rights are respected under legal and regulatory mechanisms, and there is no indigenous people in the catchment area. 2. The water currently used by the site is from municipal water supply, and its water consumption is monitored every day. According to the water consumption records of the site, the monthly water consumption is about 45000-66000m3, and the peak season is in March, July and August, December and January, and the water consumption of the site in the peak season is about 66000m3 per month. The audit team interviewed the local water supply infrastructure, local community and environmental protection bureau, surrounding companies. The representatives of these stakeholders said that the local water supply was sufficient, and there was no impact on the water supply of surrounding stakeholders due to the operation of the site.	
3.2	<i>Implement system to comply with water-related legal and regulatory requirements and respect water rights.</i>	
3.2.1	<i>A process to verify full legal and regulatory compliance shall be implemented.</i>	✓ Yes
Comment	The site has established a procedure to ensure the operation of it to meet the provisions of relevant laws, regulations and other requirements. And conducts compliance evaluation on laws and regulations every year and keeps records. According to IPE and monitoring reports, the facility operated in accordance with laws and regulations.	
3.2.2	<i>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.</i>	✓ Yes

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Comment The site has established a procedure to ensure the operation of the site meets the provisions of relevant laws, regulations and other requirements.
The site has developed a water quality monitoring plan, including rainwater, discharged wastewater to ensure that the drainage water quality and pollutant concentrations meet the requirements of laws and regulations. A brief summary of monitoring point information and monitoring frequency is as follows:
a) wastewater discharge
1. Formulated the water pollution management regulations, including the monitoring requirements of wastewater quality, including parameters and frequency.
2. The internal laboratory monitors the water quality in the wastewater treatment process and the quality of discharged wastewater in each shift.
3. On-line monitoring facilities are installed at the wastewater discharge port to monitor COD, NH4-N, TN and PH in real time.
4. The site entrusts a third-party laboratory to monitor its wastewater discharge every three months according to the requirements of the sewage discharge permit.
b) rainwater drainage
1. In the month when it rains, entrust a third-party laboratory to test the water quality of the rainwater outlet.
The water currently used by the site is from municipal water supply, and its water consumption is monitored every day. According to the water consumption records of the site, the monthly water consumption is about 45000-66000m³, and the peak season is in March, July and August, and the water consumption of the site is about 58000m³ per month. The audit team interviewed the local water supply infrastructure, local community and environmental protection bureau, surrounding companies. The representatives of these stakeholders said that the local water supply was sufficient, and there was no impact on the water supply of surrounding stakeholders due to the operation of the site.

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 The site has developed a Water Stewardship Plan (Year 2024 and Year 2025) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc.
1. The site has set targets for fresh water use amount was less than 693,000 m³ in 2024 and less than 615,000 in 2025 and the site tracks its fresh water use amount on a monthly basis.
2. The site also set targets for water consumption, which was less than 5.5 m³ (which is the advanced values of industrial water quota) of per ton products in 2024 and in 2025 and tracks the water use per ton products on a monthly basis.
Based on the water balance target of the site in 2024 and 2025, the site has formulated a water management action plan, and a series of improvement measures have been proposed and implemented, such as:
1. Optimize the process parameters of pure water system and replace high flow filters to improve the water production rate.
2. Replace the intelligent water-meters in the site.
3. Optimize the cleaning process, reduce the consumption of fresh water, and collect and reuse the washing wastewater.
According to the data statistics and analysis records provided by the site, the annual total water use amount in 2024 is 662,500 m³ and water consumption of per ton products is less than 5.5 m³.
The site tracks the progress of its water balance target every month. All the implementation plan for 2024 has been completed. The different of water balance in 2024 was 1.04%.

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

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Comment	The site has developed a Water Stewardship Plan (Year 2024) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc. The site has developed a Water Stewardship Plan (Year 2024 and Year 2025) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc. The site has set targets for fresh water use amount was less than 693,000 m3 in 2024 and less than 615,000 in 2025 and the site tracks its fresh water use amount on a monthly basis. Based on the water balance target of the site in 2024, the site has formulated a water management action plan, and a series of improvement measures have been proposed and implemented, such as: 1. Optimize the process parameters of pure water system and replace high flow filters to improve the water production rate. 2. Replace the intelligent water-meters in the site. 3. Optimize the cleaning process, reduce the consumption of fresh water, and collect and reuse the washing wastewater. According to the data statistics and analysis records provided by the site, the annual total water use amount in 2024 is 662,500 m3. The site tracks the progress of its water balance target every month, the target of annual total water use amount in 2024 has been completed.	
3.3.3	<i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i>	 Yes
Comment	No legally-binding documentation is issued by local government authorities to the site for the re-allocation of water to social, cultural or environmental needs.	
3.3.4	<i>Voluntary Advanced Indicator</i> <i>The total volume of water voluntarily re-allocated (from site water savings) for social, cultural and environmental needs shall be quantified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.4	<i>Implement plan to achieve site water quality targets</i>	
3.4.1	<i>Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	Based on the water quality target of the site, the site has formulated a water stewardship action plan, and a series of improvement measures have been proposed and implemented, such as: 1. In 2023-2025, the on-site wastewater treatment system was expanded, and the wastewater treatment capacity was increased from 3500m3/day to 6000m3/day. Due to the optimization of the process and the upgrading of the capacity, the pollutant concentration in the discharged wastewater was reduced. 2. Optimize the production process, reduce the leakage liquid, and reduce the wastewater volume.	
3.4.2	<i>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.</i>	 Yes

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Comment	A series of water stewardship plans are implemented to achieve the site's water quality targets. According to the water quality monitoring plan, the site entrusts a third-party laboratory to test its various water quality. According to the test report and analysis record provided by the site, the water quality is 100% in line with its internal control standard. 1. The site has developed a water quality monitoring plan and commissioned third-party laboratories to test the water quality of various sources, including discharged water, and rainwater. 2. The site has formulated the operation standards of industrial wastewater treatment facilities to standardize the wastewater treatment process and has kept the daily operation and maintenance records for tracking the operation status of wastewater treatment facilities. 4. The site has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are 90% of the discharge permit. (Permit requirements: Discharge Standard of Water Pollutants GB 8978-1996: PH 6.0-9.0; TN 70 mg/L; BOD5 300 mg/L; Animal and vegetable oils 100 mg/L; TP 8 mg/L; SS 400 mg/L; NH3-N 45 mg/L; COD 500mg/L). The site continuously tracks the quality of its discharged wastewater and optimizes the operation of its wastewater treatment system to ensure that its discharged wastewater 100% meets its internal control objectives. The testing reports showed that the discharged water quality meets the internal control standard.	
3.5	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
3.5.1	<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	On March 22, 2025, the site organized a Beach cleaning public welfare activity in the water-intake of Hanjiang River with 1 brother company and 1 supplier, totally 25 persons attended the activity. On June 25, 2025, the site organized a Beach cleaning activity in surrounding river, totally 25 persons attended the activity.	
3.5.2	<i>Advanced Indicator</i> <i>Evidence of completed restoration of non-functioning or severely degraded Important Water-Related Areas including where appropriate cultural values from a site-selected baseline date shall be identified. Restored areas may be outside of the site, but within the catchment.</i>	 N/A
Comment	The site does not perform this indicator.	
3.5.3	<i>Advanced Indicator</i> <i>Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the healthy status of Important Water-Related Areas in the catchment shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.6	<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>	
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

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Comment	1. The WASH installations fully comply with the national "Hygienic Standards for the Design of Industrial Enterprises" (GBZ 1-2010). 2. The site conducts WBCSD self-assessment to evaluate the level of onsite WASH and the final result was 85% in 2024 and 90% in 2025. 3. The site carried out a questionnaire survey on employee satisfaction regarding drinking water, sanitation, and facilities, and according to the survey results, the satisfaction was high. 4. The site conducted regular testing of drinking water to ensure safe drinking water. 5. Sanitation and hygiene installations were checked and cleaned daily, water purifiers were checked daily and maintained when needed.	
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
Comment	No evidence is showed that the site is impinging on the human right to safe water and sanitation of communities through their operations according to the interviews with the site's employees, local community and local government authorities.	
3.6.3	<i>Advanced Indicator</i> <i>A list of actions taken to support the provision to stakeholders in the catchment of access to safe drinking water, adequate sanitation and hygiene awareness shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.6.4	<i>Voluntary Advanced Indicator:</i> <i>In catchments where WASH has been identified as a shared water challenge, evidence of efforts taken with relevant public-sector agencies to share information and to advocate for change to address access to safe drinking water and sanitation shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
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
Comment	Indirect water use targets have been set in the water stewardship plan. The site conducts on-site audits of suppliers every year, covering topics related to environmental management. In 2024, the site conducted on-site audit on 2 packaging suppliers. For the findings found during the audit, the site will promote the suppliers to follow up and rectify them. The site plans to perform the onsite audit of other 2 key suppliers during 2025.	
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
Comment	Indirect water use targets have been set in the water stewardship plan. The site conducts on-site audits of suppliers every year, covering topics related to environmental management. In 2024, the site conducted on-site audit on 2 packaging suppliers. For the findings found during the audit, the site will promote the suppliers to follow up and rectify them.	
3.7.3	<i>Advanced Indicator</i> <i>Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.</i>	 N/A

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Comment	The site does not perform this indicator.	
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
Comment	The site actively cooperates with the government supervision department to conduct supervisory inspections and visits. The site keeps close contact with local water-related infrastructure owners through many ways such as Wechat or phone call.	
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
Comment	1. The site has developed its own Sustainable Water Management Manual ((MICS035-9.5.4-3-2025-0), to standardize its water management activities. 2. The site has established an Environment and Water Stewardship Committee to coordinate its environmental and water management related affairs. An organization chart of the environment and water stewardship management team established, including the manager representative of the water stewardship and the responsible department. 3. In December 2023, the site was awarded the honor of National-level "Green Factory" by Industry and Information Technology Department.	
3.9.2	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>	 Yes
Comment	The site has developed a Water Stewardship Plan (Year 2024 and Year 2025) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc. The actions for improving water balance including: 1. Optimize the process parameters of pure water system and replace high flow filters to improve the water production rate. 2. Replace the intelligent water-meters in the site. 3. Optimize the cleaning process, reduce the consumption of fresh water, and collect and reuse the washing wastewater. According to the data statistics and analysis records provided by the site, the water consumption of per ton products is less than 5.5 m3.	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	A series of water stewardship plans are implemented to achieve the site's water quality targets. 1. In 2023-2025, the on-site wastewater treatment system was expanded, and the wastewater treatment capacity was increased from 3500m3/day to 6000m3/day. Due to the optimization of the process and the upgrading of the capacity, the pollutant concentration in the discharged wastewater was reduced. 2. Optimize the production process, reduce the leakage liquid, and reduce the wastewater volume. 3. The site has developed a management procedure for pollutant concentration in wastewater discharge and established internal control indicators that are 90% of the discharge permit.	
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

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Comment	A series of water stewardship plans are implemented to achieve the site's water quality targets. Including: On March 22, 2025, the site organized a Beach cleaning public welfare activity in the water-intake of Hanjiang River with 1 brother company and 1 supplier, totally 25 persons attended the activity. On June 25, 2025, the site organized a Beach cleaning activity in surrounding river, totally 25 persons attended the activity.	
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	1. The site conducts WBCSD self-assessment to evaluate the level of onsite WASH and the final result was 85% in 2024 and 90% in 2025. 2. The site carried out a questionnaire survey on employee satisfaction regarding drinking water, sanitation, and facilities, and according to the survey results, the satisfaction was high. 3. The site conducted regular testing of drinking water to ensure safe drinking water.	
3.9.6	<i>Voluntary Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified.</i>	 Yes
Comment	The site's good performance in water governance has received many honors and recognition from governmental departments. In December 2023, the site was awarded the honor of National-level "Green Factory" by Industry and Information Technology Department.	
3.9.7	<i>Voluntary Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.8	<i>Voluntary Advanced Indicator Achievement of identified best practices related to targets in terms of water quality shall be quantified</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.9	<i>Voluntary Advanced Indicator Achievement of identified best practices related to targets in terms of the site's maintenance of Important Water-Related Areas have been implemented.</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.10	<i>Voluntary Advanced Indicator Achievement of identified best practice related to targets in terms of WASH shall be quantified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.11	<i>Voluntary Advanced Indicator A list of efforts to spread best practices shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.12	<i>Voluntary Advanced Indicator A list of collective action efforts, including the organizations involved, positions of responsible persons of other entities involved, and a description of the role played by the site shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	

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3.9.13	<i>Voluntary Advanced Indicator</i> <i>Evidence of the quantified improvement that has resulted from the collective action relative to a site-selected baseline date shall be identified and evidence from an appropriate range of stakeholders linked to the collective action (including both those implementing the action and those affected by the action) that the site is materially and positively contributing to the achievement of the collective action shall be identified.</i>
Comment	The site does not perform this indicator.


N/A

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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	The site performed annual water stewardship management review. The review covered the requirements of evaluating site performance and its contribution to achieving water stewardship results based on the objectives of the water stewardship plan. A management review was conducted on January 22, 2025 to summarize the overall environmental performance in 2024. The 2024 water stewardship plan has 17 actions. Each action has defined responsible person, start date, end date, status and actual performance.	
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	 Yes
Comment	The review covered the value creation resulting from the water stewardship plan. For 2024, the site has reduced water consumption over 30300 tons, and reduce the discharge of liquid materials by 85.62 tons.	
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	 Yes
Comment	The site has conducted four 'river patrol' activities, improve the employees' awareness, improve the catchment environment. The site reduces the wastewater volume via optimize the production process and reduce the leakage liquid.	
4.1.4	<i>Advanced Indicator</i> <i>A governance or executive-level review, including discussion of shared water challenges, water risks, and opportunities, and any water-related cost savings or benefits realized, and any relevant incidents shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
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	No water-related emergencies and extreme events occurred at the site in recent years. The site presents its emergency response procedure and plan identifying proposed preventive and corrective actions, as well as measures to mitigate future incidents. The site also provide the drilling record covered the water-related topics including water suspend, malfunction of the WWTP, spill, heavy rain and etc.	
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>	 No

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Comment	The site communicates its sustainable water management performance to partial stakeholders through WeChat.	
		Finding No: TNR-019640
4.3.2	<i>Voluntary Advanced Indicator</i> <i>The site's efforts to address shared water challenges shall be evaluated by stakeholders. This shall include stakeholder reviewing of the site's efforts across all five outcome areas, and their suggestions for continual improvement.</i>	 N/A
Comment	The site does not perform this indicator.	
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
Comment	The site has developed a procedure which specifies that its water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations annual. The site provided the 2025 water stewardship plan, and the improvement has been made. The site also kept records of previous versions of the plan.	

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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	The site disclosed the site's internal governance in relation to water, communication on sustainable water management issues through e-mail with stakeholders and bulletin board at the entrance of the site.	
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.	✓ Yes
Comment	The site discloses the AWS Sustainable Water Management Report on the bulletin board at the entrance of the site. The site also communicates the water stewardship plan during stakeholder visit or meeting.	
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	The site disclosed the water stewardship performance of 2024, including quantified performance against targets on the bulletin board at the entrance of the site.	
5.3.2	Advanced Indicator The site's efforts to implement the AWS Standard shall be disclosed in the organization's annual report.	↓ N/A
Comment	The site does not perform this indicator.	
5.3.3	Voluntary Advanced Indicator Benefits to the site and stakeholders from implementation of the AWS Standard shall be quantified in the organization's annual report.	↓ N/A
Comment	The site does not perform this indicator.	
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	The site disclosed the shared water-related challenges and the effort to address shared water challenges on the bulletin board at the entrance of the site.	
5.4.2	Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.	✓ Yes

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Comment	The site disclosed the effort to address shared water challenges, internal governance in relation to water, communication on sustainable water management issues on the bulletin board at the entrance of the site. They also shared the related information during visiting of the stakeholder like community committee, wastewater treatment and water supply infrastructure and government agencies.	
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
Comment	Non-conformities and corrective action procedure (Document No.: S-9.4.7-11-2018-0, issue date: 18 May 2018) to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	
5.5.2	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i>	 Yes
Comment	Non-conformities and corrective action procedure (Document No.: S-9.4.7-11-2018-0, issue date: 18 May 2018) to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	
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
Comment	Non-conformities and corrective action procedure (Document No.: S-9.4.7-11-2018-0, issue date: 18 May 2018) to manage non-conformance and related corrective action is developed, there is no water-related compliance violation identified in past few years.	

Previous Findings

	<i>All non-conformities raised in the previous audit have been satisfactorily closed.</i>	 N/A
Comment	This is an initial audit.	