

Alliance for Water Stewardship Assessment Report as per AWS Standard Version 2.0

For

Guangzhou Big-Want Foods Ltd.

No. 3 Xin Yuan Road, YongHe Economic Zone
of GETDD, Guangzhou, Guangdong, CHINA

Prepared by: TÜV Rheinland
Cert. Number: AWS-000287
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1. Client and Certification Details

Client Name:	Guangzhou Big-Want Foods Ltd.
Audit location:	No. 3 Xin Yuan Road, YongHe Economic Zone of GETDD, Guangzhou, Guangdong, CHINA
Country:	China
Activities/Processes:	Rice cracker manufacture
Contact person:	Mr. Ronghua Zhang
Contact email:	Zhang_RongHua2@want-want.com
Company website:	http://www.want-want.com/
AWS Reference Number:	AWS-000287
Type of audit:	Conformity Assessment
Audit date(s):	4th~6th January 2021
Audit Standard:	V2.0
Proposed date of next audit:	2022.01.06
Audit report completed by:	Ian Jiang, Ike Xu
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2. Executive Summary

The scope of service covers the conformity assessment of water management and usage for Guangzhou Big-Want Foods Ltd. The assessment was completed in compliance with the AWS Standard Version 2.0 dated on Mar 2019.

Founded in 1995, Guangzhou Big-Want Foods Ltd. (hereinafter referred as Big-Want) is a subordinate of Want Want Group, located in No. 3 Xin Yuan Road, YongHe Economic Zone of Guangzhou Economic and Technology Developing District, Guangzhou, Guangdong, China. The premises has four subordinate of Want Want Group, Guangzhou Big-Want Foods Ltd, Guangzhou Be Want Food Ltd., Guangzhou Want Want Food Ltd., Guangzhou Lee-Want Food Ltd. The total construction area of the premises is 45640m². Big-Want mainly manufactures variety of rice crackers.

A pre-assessment for Big-Want's facilities and activities as per AWS Standard (Version 2.0) was performed by TÜV Rheinland on 19th~20th November 2020. During the pre-assessment, TÜV Rheinland conducted the document review, interview and site tour covered the production workshop, wastewater treatment plant, chemical warehouse and hazardous waste storage area. Total seven minor non-conformities and one observation were raised during the pre-assessment.

On January 4th – 6th, TÜV Rheinland conducted the on-site conformity assessment for Big-Want's facilities and activities as per requirement of the AWS Standard (Version 2.0). During the audit, stakeholder interview was conducted on 6th January via telephone. The stakeholders involved in the interview covered government, infrastructure, suppliers, neighbor factory and neighbor resident etc. Totally minor non-conformities and two observations were raised during the onsite audit.

TÜV Rheinland also performed an evaluation for Big-Want's performance against the AWS advance criteria. The score is 49 points that fulfills AWS gold-level requirement.

Findings summary:

- Total: 4
- Major non-conformities: 0
- Minor non-conformities: 2
- Observation: 2

Client's response:





Big-Want responded to the findings raised with root cause analysis and action plans. Our review confirmed that all corrective action plans are acceptable. The observations are not required for correction and corrective action.

Certification level: Gold

After thorough evaluation of the non-conformance and observations, in compliance with the AWS Certification Requirement V2.0 TÜV Rheinland auditor team would recommend to reward Big-Want AWS Gold Certified status. Surveillance audit should be conducted on an annual basis.

3. Scope of Assessment

Client factories main products	Rice crackers
Client factories production processes	Washing-Soaking-Steam-Molding-Drying-Baking-Seasoning-Packing
Assessment preparations activities include:	Document review, stakeholder comments collecting
Assessment on-site activities includes:	Document review, management interview, employee interview, onsite tour
Assessment follow-up activities includes (in any):	Non-conformity follow up

	
Discharge point	Chemical Warehouse
	
Rainwater discharge point	Yonghe River (Water Receiving Body)



Wastewater treatment plant



Production Line

4. Description of the site and Catchment

Guangzhou Big-Want Foods Ltd. shared the premises with other three subordinate of Want Want Group. It has an independent production building, but the utilities like wastewater treatment plant, chemicals warehouse and hazardous waste storage area are shared.

The site only uses tap water, which comes from Xinhe Water Treatment Plant. The water supply source comes from the north main stream of the Dongjiang River and water intake point is Liuwuzhou. The site and receiving water bodies are located in the Yonghe River Basin.

The plant has a wastewater treatment plant. After treatment, the sewage is discharged into the municipal sewage pipeline and then into the Yonghe Water Purification Plant for further treatment. Finally it discharged into the Yonghe River after reaching the standard. Both the water source and receiving body are belong to Dongjiang River catchment.

The Dongjiang River is one of the three major water systems in the Pearl River Basin. It originates from Jiangxi Province, and flows through Heyuan City, Huizhou City, and Dongguan City. When reaching to Silong Country, it flows into the net river area in the east of the Pearl River Delta, and then divides into two waterways (the south tributary and the north main stream) into the Lion Ocean and goes to the sea through Humen. The main stream of the Dongjiang River flows from northeast to southwest. The length of the river is 562km from the source to Lion Ocean, of which 127km is in Jiangxi Province and 435km in Guangdong Province. The total area of the basin is 35340km², of which 31840km² in Guangdong Province, accounting for 90.1% of the total drainage area, and 3,500km² in Jiangxi Province, accounting for 9.9% of the total drainage area.

Yonghe River Basin (site and receiving water range):

The Yonghe River originates from the Hongqi Reservoir in Huangpu District, Guangzhou, and it spans Huangpu and Zengcheng districts with a total length of 21.1 kilometers. The Zengcheng section has a total length of 13.6 kilometers. Yonghe River is one of the 35 black and odorous rivers included in the examination of Guangzhou in 2016. A 35-km sewage interception main network and a 9-km sewage interception branch network have been built on both sides of the Yonghe River. In 2020, the water quality of Yonghe River varied from Level III to Level V, preliminary reached the water quality target.

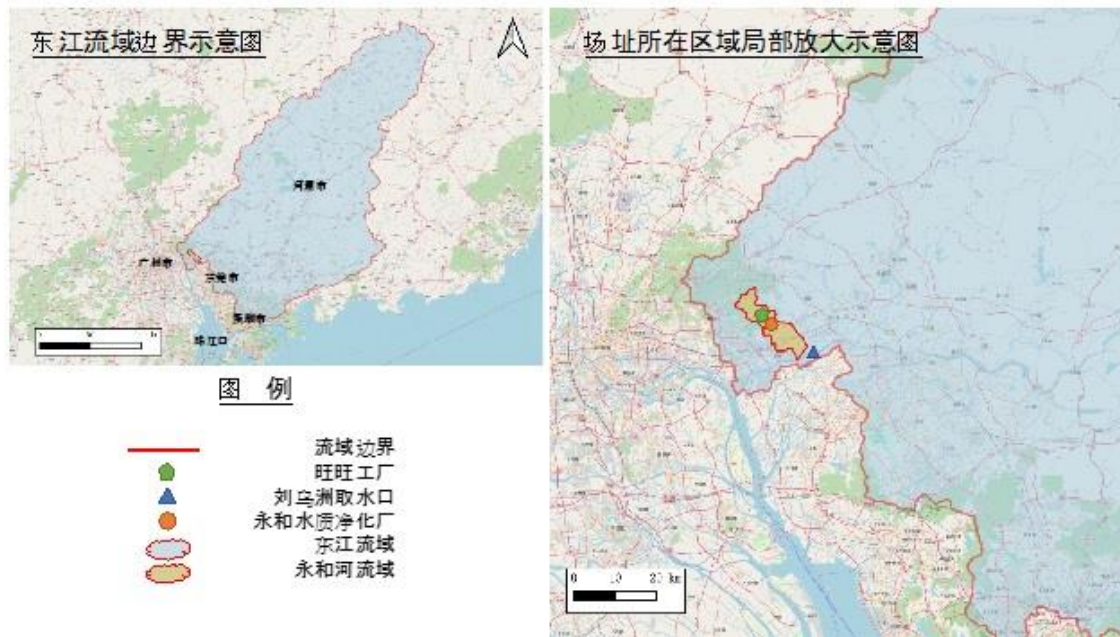


Diagram of the boundary of Dongjiang River Basin and Yonghe River Basin



Diagram of site water source and discharge point

5. Summary of the Stakeholder meeting

An audio conference stakeholder meeting was conducted on the morning of Jan 6th, 2021 to share various water related opinions from different stakeholders regarding to Big-Want and the catchment. Totally 8 stakeholders from 7 stakeholder groups participated in the meeting. The summary are as follows:

Stakeholder name	Stakeholder type	Summary
Mr. Zhou	Huangpu District Ecological and Environmental Bureau	The water quality of Big-Want's neighborhood water bodies – Yonghe river and Yongwang river is decent in the recent years without exceeding relevant standards. No evidence showed Big-Want once involved in water related compliance issue.
Mr. Chen	Yonghu wastewater treatment plant	As one of the largest food production facilities, the Want Want Group accounted for 600-800t/d wastewater generation that discharges to Yonghe wastewater treatment plant. The factory cared about the connection with the plant via regular phone communication, site visit for water treatment facilities and water quality in the plant, which Mr. Chen considered Big-Want a responsible company for its own water quality.
Mr. Qu	Yonghe water supply facility	The facility is to provide stable water quantity, quality and pressure in Yonghe area, where Big-Want is located. Due to booming residential properties development in recent years, the facility updated the pipeline network and added two pressure pumps to maintain good water services. The water services to Big-Want are always superior as it is located at the upper region of the supply system.
Mr. Qiu	Neighbor factory	Owned a smooth communication channel between two factories, by regular experiences sharing, including wastewater discharge within limits, exploring opportunities of sharing in house ETP of two factories and energy system, etc. Mr. Qiu also mentioned the water supply in Yonghe area was quite stable without shortage or lack of pressure.
Mr. Luo	Yonggang community	Yonggang community is located next to Big-Want with over 25000 residents. Mr. Luo indicated that the company cared for the surrounding residents by consulting their opinions when modifying its facilities that may have potential influence to the community, and seek opportunities to provide more convenient water access for community's future upgrades.
Mr. Zhang	Employee	Helped to introduce the AWS system and participated in AWS training. Established AWS system that meets customer expectations as well as achieves better water stewardship in the factory.
Ms. Liu	Employee	Helped to introduce the AWS system and participated in AWS training. Established AWS system that meets customer expectations as well as achieves better water stewardship in the factory.

Stakeholder name	Stakeholder type	Summary
Ms. Yang	Supplier	The supplier indicated that they received water related questionnaire from the Big-Want and shared their opinions to the company.
Ms. Xu	AWS representative	Attended as observer

6. Summary of Shared Water Challenges

Water-related challenges	Initiatives by related public institutions	Relevance to stakeholders	Relevance to site	Priority	Reason for prioritization
Extreme weather and floods	Classification command and coordination according to emergency response level. 2. Urban flood control is included in the "14th Five-Year Plan" as an important content and major project 3. In 40% of the built-up area, achieve total annual runoff control rate of rainwater not less than 70% by 2025.	1. Due to the small diameter of the sewage pipe network and the low-lying terrain, during heavy rains, the road floods and affects the traffic and operation of communities and enterprises. 2. Extraordinarily heavy rain may cause flooding and damage of equipment for enterprises (surrounding factories or suppliers) 3. The government or infrastructure operators need to invest more funds or manpower to cope with flood.	1. There is a safety risk when employees commute. 2. May lead to the suspension of some production lines and affect profits 3. The raw materials stored in the low-lying storage area may soak, causing a loss of money	High	The impact on stakeholders and the plant is relatively large, and due to climate change, such problems may occur more frequently and severely.
Increasingly water shortage (water shortage based on water quantity and quality)	1. Industrial water saving and emission reduction 2. Water saving and efficiency enhancement in high water consumption industries 3. Water recycling 4. Expand	1. The government and water plants need to open up new water sources and invest in new facilities 2.	1. As a result, production cannot be increased, and profits may be affected 2. The community	Medium	The impact on stakeholders and the plant is relatively large, but the government has long-term plans. The awareness

Water-related challenges	Initiatives by related public institutions	Relevance to stakeholders	Relevance to site	Priority	Reason for prioritization
	the use of unconventional water 5. Guided by the "Nine Water Conservation Tasks" proposed in the "Guangdong Water Saving Action Implementation Plan", the "Guangzhou Water Saving Action Implementation Plan" will be issued	Residents may face restrictions on water use 3. Enterprise (including neighboring companies and suppliers) may face restrictions on water use or affect expansion.	may not have enough water supply 3. Residents may face restrictions on water use, which may cause complaints.		of water saving in the society is not sufficient, and the efforts to implement water saving actions are not enough.
Water quality of river needs to be improved	1. River way improvement project 2. Construct reservoir of Yonghe River, implement water ecological purification treatment system project	1. For local government and sewage treatment plants, it may need to increase the cost of water purification to achieve the goals of the higher-level government 2. For residents, it may affect the appearance or smell, and affect the comfort of the living environment 3. Neighboring companies (or suppliers) may be required to reduce wastewater.	1. May face stricter discharge standards or reduce wastewater or further control rainwater.	Medium	The impact on stakeholders and the plant is relatively large, but the government has long-term plans. Enterprises have a strong sense of reducing waste water.

Water-related challenges	Initiatives by related public institutions	Relevance to stakeholders	Relevance to site	Priority	Reason for prioritization
Rise of water prices, environmental taxes	Proper control the impact of price adjustments to basically meet the construction and operation needs of water supply enterprises during the "14th Five-Year Plan" period	11. For other industrial water users (including neighboring manufacturers and suppliers), it will increase business operating costs 2. For enterprises and residential, there may be more incentives to carry out water-saving and emission-reduction actions due to cost factors.	1. Increase operating costs 2. Affect industrial structure and business decision-making	Low	It has a certain impact on stakeholders and the plant. But it will also help companies in a certain extent.

7. Indicators Checklists

Per requirements set from the AWS certification requirements V2.0, below is a checklist of all the CORE AWS indicators. The documents reviewed/ processes reviewed are also indicated.

Criteria	Documents Reviewed
STEP 1: Gather and Understand	
<p>1.1 Define the physical scope:</p> <p>1.1.1 Map site boundaries;</p> <p>1.1.2 Water-related infrastructure, including piping network, owned or managed by the site or its parent organization</p> <p>1.1.3 Any water sources providing water to the site that are owned or managed by the site or its parent organization</p> <p>1.1.4 Water service provider (if applicable) and its ultimate water source</p> <p>1.1.5 Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies</p> <p>1.1.6 Catchment(s) that the site affect(s) and is reliant upon for water</p>	<p> <input checked="" type="checkbox"/> Documentation or map of the site's boundaries <input checked="" type="checkbox"/> Names and location of water sources <input checked="" type="checkbox"/> Names and location of effluent discharge points <input type="checkbox"/> Other : </p> <p>Big-Want has collected the information and summarized as the catchment report that included the Dongjiang River Catchment, the site, the water providers and its ultimate water source, wastewater treatment plant and ultimate receiving water body.</p> <p>Evidences: Want Want Group Guangzhou General Plant Water Risks, Opportunities and Challenges Background Report.</p>
<p>1.2 Understand relevant stakeholders:</p> <p>1.2.1 Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified</p> <p>1.2.2 Current and potential degree of influence between site and stakeholder shall be identified</p>	<p> <input checked="" type="checkbox"/> List of stakeholders <input checked="" type="checkbox"/> Water-related challenges <input checked="" type="checkbox"/> Current and potential degree of influence <input type="checkbox"/> Other : </p> <p>Big-Want has established AWS Management System Procedure, which included stakeholder engagement section.</p> <p>Big-Want also established a stakeholder list and influence analysis, covering the information including the communication channel and responsible person. Stakeholder's water-related interests and challenges were collected during the engagement.</p> <p>Evidences: AWS Management System Procedure(Operation-3-WQ-014) Stakeholder expectation and influence analysis report</p>

Criteria	Documents Reviewed
<p>1.3 Gather water-related data for the site:</p> <p>1.3.1 Existing water-related incident response plans</p> <p>1.3.2 Site water balance, including inflows, losses, storage, and outflows</p> <p>1.3.3 Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates. An indication of annual high and low variances shall be quantified for risky water-related challenge</p> <p>1.3.4 Water quality of the site's water source(s), provided waters, effluent and receiving water bodies. An indication of annual, and where appropriate, seasonal, high and low variances shall be quantified for risky water-related challenge</p> <p>1.3.5 Potential sources of pollution, including chemicals used or stored on site</p> <p>1.3.6 Mapping on-site Important Water-Related Areas, including a description of their status including Indigenous cultural values</p> <p>1.3.7 Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value</p> <p>1.3.8 Levels of access and adequacy of WASH at the site</p>	<p><input checked="" type="checkbox"/> Water-related incident response plans</p> <p><input checked="" type="checkbox"/> Site water balance (in Mm³ or m³)</p> <p><input checked="" type="checkbox"/> Water quality of the site's water source(s), provided waters, effluent and receiving water bodies, such as water test reports</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has developed a series of operation procedure for different water-related scenarios including water suspension, wastewater emergency and natural disasters etc.</p> <p>Big-Want has established a comprehensive metering system to record the water input and output daily.</p> <p>Big-Want installed the online monitoring system to monitor the discharged water, and conduct routine internal and external testing to control the quality of discharged water.</p> <p>Big-Want has mapped the potential sources of pollution on the layout map, and no IWRA identified in the site.</p> <p>Big-Want conduct the cost analysis monthly, which covered the water-related costs such as direct water cost, water purification and treatment cost.</p> <p>Regularly drinking water testing are conducted internally. Sufficient toilets are provided onsite with the hand wash and regularly cleaning. Big-Want also conducted WBCSD self-assessment to evaluate the level of onsite WASH.</p> <p>Evidences:</p> <p>Emergency Respond Plan</p> <p>The water balance report</p> <p>Wastewater Online Monitoring report</p> <p>Wastewater testing report</p> <p>Map of Potential Pollution Source</p> <p>Water Cost Data Sheet</p> <p>WBSCD self-assessment sheet</p>

Criteria	Documents Reviewed
<p>1.4 Gather data on the site's indirect water use:</p> <p>1.4.1 The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment</p> <p>1.4.2 The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified</p>	<p><input checked="" type="checkbox"/> List of primary inputs</p> <p><input checked="" type="checkbox"/> List of outsourced services</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want screened and identified the main suppliers, and then sent the questionnaires to investigate their indirect water consumption. Moreover, by using WWF's map of water risk filter, Big-Want also evaluated the water related risk level in the catchment where its suppliers are located.</p> <p>Evidences:</p> <p>Supplier questionnaires</p> <p>Supply Chain Water Risk Analysis Report</p>

Criteria	Documents Reviewed
<p>1.5 Gather water-related data for the catchment:</p> <p>1.5.1 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</p> <p>1.5.2 Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights</p> <p>1.5.3 The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance</p> <p>1.5.4 Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified</p> <p>1.5.5 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</p> <p>1.5.6 Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events</p> <p>1.5.7 The adequacy of available WASH services within the catchment</p>	<p><input checked="" type="checkbox"/> Water governance initiatives</p> <p><input checked="" type="checkbox"/> Applicable water-related legal and regulatory requirements</p> <p><input checked="" type="checkbox"/> Catchment water balance (in Mm³ or m³)</p> <p><input checked="" type="checkbox"/> Documentation identifying Important Water-Related Areas (IWRA)</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has established procedure to collect and assess applicable legislation and regulatory requirement. They also established a law and regulation list.</p> <p>Big-Want collected the water resource and water quality public report of Guangzhou via the related authority website, which contained the water-balance, water quality and IWRA information of the catchment.</p> <p>Based on the Guangzhou Statistical Yearbook, the public water coverage rate is 100%, the wastewater Treatment Rate is 95.53%. It indicates that the WASH services in the Guangzhou are adequate.</p> <p>One Observation was raised.</p> <p>The wastewater treatment plant abnormal and accident emergency respond plan could be improved. For example, adding the scenario of malfunction of the WWTP and related responding measures.</p> <p>Evidences:</p> <p>Laws, regulation and other requirements Management Procedure on Environmental, Occupational Health and Safety(Environmental and Safety-2-WS-005)</p> <p>Want Want Group Guangzhou General Plant Water Risks, Opportunities and Challenges Background Report.</p>

Criteria	Documents Reviewed
<p>1.6 Understand current and future shared water challenges in the catchment:</p> <p>1.6.1 Shared water challenges shall be identified and prioritized from the information gathered</p> <p>1.6.2 Initiatives to address shared water challenges</p>	<p><input checked="" type="checkbox"/> List of shared water challenges</p> <p><input type="checkbox"/> Other :</p> <p>Water Risks, Opportunities and Challenges Background Report identified four shared challenges in the catchment, and addressed initiatives are also established.</p> <p>Evidences: Want Want Group Guangzhou General Plant Water Risks, Opportunities and Challenges Background Report.</p>
<p>1.7 Understand the site's water risks and opportunities:</p> <p>1.7.1 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</p> <p>1.7.2 Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities</p>	<p><input checked="" type="checkbox"/> List of water risks facing the site</p> <p><input checked="" type="checkbox"/> List of water-related opportunities</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has identified its water risks in 15 aspects. Based on risk analysis, Big-Want has prioritized its water risks according to potential impact, likelihood within a given time and difficulty of detection. Meanwhile, corresponding response strategies to mitigate water risks are developed. Eight water opportunities were also identified.</p> <p>Evidences: Want Want Water Risk List.</p>
<p>1.8 Understand best practice towards achieving AWS outcomes:</p> <p>1.8.1 Relevant catchment best practice for water governance</p> <p>1.8.2 Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use)</p> <p>1.8.3 Relevant sector and/or catchment best practice for water quality, including rationale for data source</p> <p>1.8.4 Relevant catchment best practice for site maintenance of Important Water-Related Areas</p> <p>1.8.5 Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services</p>	<p><input checked="" type="checkbox"/> Relevant catchment best practices</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has identified relevant catchment best practice for water governance, water balance, water quality, IWRA and WASH.</p> <p>Evidences: The best practice goals and benchmark selection basis table for the AWS project of Guangzhou main plant.</p>
STEP 2: Commit	

Criteria	Documents Reviewed
<p>2.1 Commit to water stewardship:</p> <p>2.1.1 A signed and publicly disclosed site statement OR organizational document</p>	<p><input checked="" type="checkbox"/> Statement</p> <p><input type="checkbox"/> Other :</p> <p>A water stewardship commitment to follow all the AWS core criteria has been signed by the Director of Want Want Guangzhou. The commitment has been displayed on Want Want Group's website.</p> <p>Evidences: Commitment to Water Stewardship.</p>
<p>2.2 Develop and document a process to achieve and maintain legal and regulatory compliance:</p> <p>2.2.1 The system to maintain compliance obligations for water and wastewater management shall be identified</p>	<p><input checked="" type="checkbox"/> Documented description of system</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has established procedure to collect and assess applicable legislation and regulatory requirement. They also established a law and regulation list.</p> <p>Evidences: Laws, regulation and other requirements Management Procedure on Environmental, Occupational Health and Safety(Environmental and Safety-2-WS-005) List of EHS laws and regulations</p>
<p>2.3 Create a water stewardship strategy and plan:</p> <p>2.3.1 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</p> <p>2.3.2 A water stewardship plan shall be identified</p>	<p><input checked="" type="checkbox"/> Water stewardship strategy</p> <p><input checked="" type="checkbox"/> Water stewardship Plan</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has developed a water stewardship strategy including the collection of rainwater, reuse of condensate water and intelligence energy/water control.</p> <p>Big-Want also developed a Water Stewardship Plan (Year 2020), which specifies targets, required actions, measurement, cost and benefit, estimate finishing time, performance evaluation, etc.</p> <p>Evidences: Water Stewardship Strategy and Plan</p>

Criteria	Documents Reviewed
<p>2.4 Demonstrate the site's responsiveness and resilience to respond to water risks:</p> <p>2.4.1 A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies</p>	<p><input checked="" type="checkbox"/> Water risk mitigation plan</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has identified its water risks in 15 aspects. Based on risk analysis, Big-Want has prioritized its water risks according to potential impact, likelihood within a given time and difficulty of detection. Meanwhile, corresponding response strategies to mitigate water risks are developed. Eight water opportunities were also identified.</p> <p>Evidences: Want Want Water Risk List.</p>
STEP 3: Implement	
<p>3.1 Implement plan to participate positively in catchment governance:</p> <p>3.1.1 Evidence that the site has supported good catchment governance</p> <p>3.1.2 Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.1</p>	<p><input checked="" type="checkbox"/> Good catchment governance evidence</p> <p><input type="checkbox"/> Identified measures</p> <p><input type="checkbox"/> Other :</p> <p>In 2020, Big-Wants pay visit to the authority including Huangpu Environmental and Ecological Bureau, Huangpu Water Authority, Yonghe Street Environmental and Ecological Detachment and River Chief Office. During the visit, they discussed water-related issues including the challenges and opportunities, and Big-Want also introduced the Water Stewardship Plan.</p> <p>Evidences: Summary of Stakeholder Communication and Participation in AWS Projects</p>

Criteria	Documents Reviewed
<p>3.2 Implement system to comply with water-related legal and regulatory requirements:</p> <p>3.2.1 A process to verify full legal and regulatory compliance</p> <p>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</p>	<p><input checked="" type="checkbox"/> Legal and regulatory compliance verification process</p> <p><input type="checkbox"/> Identified measures (if applicable)</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has established procedure to collect and assess applicable legislation and regulatory requirement. They also established a law and regulation list.</p> <p>One minor non-conformity was raised: The factory does not complete the compliance assessment of water related laws and regulations.</p> <p>Evidences: Laws, regulation and other requirements Management Procedure on Environmental, Occupational Health and Safety(Environmental and Safety-2-WS-005) List of EHS laws and regulations</p>
<p>3.3 Implement plan to achieve site water balance targets:</p> <p>3.3.1 Status of progress towards meeting water balance targets set in the water stewardship plan</p> <p>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</p> <p>3.3.3 Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs</p>	<p><input checked="" type="checkbox"/> Status of progress</p> <p><input checked="" type="checkbox"/> Water use efficiency annual target (if applicable)</p> <p><input type="checkbox"/> Legally-binding documentation (if applicable)</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has set the target for water quantity of unit product and relevant water saving measure. They also track the water consumption monthly.</p> <p>Evidences: Water Stewardship Strategy and Plan Monthly water consumption review report</p>

Criteria	Documents Reviewed
<p>3.4 Maintain or improve site water quality:</p> <p>3.4.1 Status of progress towards meeting water quality targets set in the water stewardship plan</p> <p>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</p>	<p><input checked="" type="checkbox"/> Status of progress</p> <p><input type="checkbox"/> Site's effluent best practice (if applicable)</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want refer to the legal standard as the wastewater quality. The plant has installed the online monitoring system in the middle of 2020, and conducted the regularly wastewater testing.</p> <p>Evidences: Water Stewardship Strategy and Plan Wastewater testing report Online monitoring record</p>
<p>3.5 Implement plan to maintain or improve the site's and/or catchments IWRAs:</p> <p>3.5.1 Practices set in the water stewardship plan to maintain and/or enhance the site's IWRAs shall be implemented</p>	<p><input checked="" type="checkbox"/> Practices set in the water stewardship plan</p> <p><input type="checkbox"/> Other :</p> <p>There are no Important Water-Related Areas in the site. In addition, the site has little influence on the Important Water-Related Areas in the catchment. So it is not applicable.</p> <p>Evidences: N/A</p>
<p>3.6 Implement plan to provide access to WASH:</p> <p>3.6.1 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</p> <p>3.6.2 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</p>	<p><input checked="" type="checkbox"/> Evidence of site's provisions of WASH</p> <p><input type="checkbox"/> Evidence of site operations not affecting water rights of surrounding environment</p> <p><input type="checkbox"/> Other :</p> <p>Drinking water machines were maintain regularly. Routine drinking water testing are conducted internally. Sufficient toilets are provided onsite with the hand wash and regularly cleaning.</p> <p>Evidences: Water Stewardship Strategy and Plan Drinking water testing report</p>

Criteria	Documents Reviewed
<p>3.7 Implement plan to maintain or improve indirect water use within the catchment:</p> <p>3.7.1 List of suppliers and service providers, along with the actions they have taken as a result of the site's engagement relating to indirect water use</p> <p>3.7.2 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</p>	<p><input checked="" type="checkbox"/> List of suppliers and service providers</p> <p><input type="checkbox"/> Evidence of engagement with suppliers and service providers</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want screened the suppliers to identify the supplier, and then sent the questionnaires to investigate their indirect water consumption. For suppliers have the environmental violation record in IPE, they also encourage the supplier to provide the corrective actions.</p> <p>Evidences: Supply Chain Water Risk Analysis Report</p>
<p>3.8 Notify the owners of shared water-related infrastructure of any concerns:</p> <p>4.8.1 Evidence of engagement, and the key messages relayed with confirmation of receipt</p>	<p><input checked="" type="checkbox"/> Evidence of engagement</p> <p><input type="checkbox"/> Other :</p> <p>In 2020, Big-Wants pay visit to the water-related infrastructure included Yonghe Water Supply Management Office, Yonghe Water Purification Office and Guangzhou GCL Natural Gas Thermal Power Co., Ltd. (Steam provider). During the visit, they discussed water-related issues including the challenges and opportunities.</p> <p>Evidences: Summary of Stakeholder Communication and Participation in AWS Projects</p>

Criteria	Documents Reviewed
<p>3.9 Implement actions to achieve best practice towards AWS outcomes:</p> <p>3.9.1 Actions towards achieving best practice, related to water governance</p> <p>3.9.2 Actions towards achieving best practice, related to targets in terms of water balance</p> <p>3.9.3 Actions towards achieving best practice, related to targets in terms of water quality</p> <p>3.9.4 Actions towards achieving best practice, related to targets in terms of the site's maintenance of IWRAs</p> <p>3.9.5 Actions towards achieving best practice, related to targets in terms of WASH</p>	<p><input checked="" type="checkbox"/> Actions related to water governance</p> <p><input checked="" type="checkbox"/> Actions related to water balance</p> <p><input checked="" type="checkbox"/> Actions related to water quality</p> <p><input checked="" type="checkbox"/> Actions related to IWRAs</p> <p><input checked="" type="checkbox"/> Actions related to WASH</p> <p><input type="checkbox"/> Other :</p> <p>Evidences:</p> <p>Big-Want has collected the best practices for AWS outcomes, and established a plan to achieve these outcomes. In the plan, the actions, cost, benefit, responsible person, timeline and status are listed, and the progress will be reviewed annually.</p> <p>Evidences:</p> <p>The best practice goals and benchmark selection basis table for the AWS project of Guangzhou main plant.</p>
STEP 4: Evaluate	
<p>4.1 Evaluate the site's performance:</p> <p>4.1.1 Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated</p> <p>4.1.2 Value creation resulting from the water stewardship plan shall be evaluated</p> <p>4.1.3 The shared value benefits in the catchment shall be identified and where applicable, quantified</p>	<p><input checked="" type="checkbox"/> Performance against targets</p> <p><input checked="" type="checkbox"/> Value creation</p> <p><input type="checkbox"/> The shared value benefits (if applicable)</p> <p><input type="checkbox"/> Other :</p> <p>Big-Want has conducted the review of the water-saving initiatives and performance in 2020.</p> <p>For other outcomes, the review has not conducted yet.</p> <p>One minor non-conformity was raised.</p> <p>The factory doesn't conducted annual review regarding to water stewardship.</p> <p>Evidences:</p> <p>Water-saving achievement report</p>

Criteria	Documents Reviewed
<p>4.2 Evaluate the impacts of water-related emergency incidents:</p> <p>4.2.1 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</p>	<p><input checked="" type="checkbox"/> A written annual review and root-cause analysis</p> <p><input type="checkbox"/> Other :</p> <p>No water-related emergencies and extreme events occurred at the site in recent years.</p> <p>Big-Want has developed a series of operation procedure for different water-related scenarios including water suspension, wastewater emergency and natural disasters etc.</p> <p>Evidences:</p> <p>Emergency respond plan</p>
<p>4.3 Evaluate the stakeholders' consultation feedback:</p> <p>4.3.1 Consultation efforts with stakeholders on the site's water stewardship performance shall be identified</p>	<p><input checked="" type="checkbox"/> Stakeholder feedback</p> <p><input type="checkbox"/> Other :</p> <p>In 2020, Big-Wants pay visit to stakeholders including government, water-related infrastructure, community, neighbour factory etc.</p> <p>During the visit, they discussed water-related issues including the challenges and opportunities, showed the water stewardship plan and obtained their feedbacks.</p> <p>Evidences:</p> <p>Summary of Stakeholder Communication and Participation in AWS Projects</p>
<p>4.4 Evaluate and updated the site's water stewardship plan:</p> <p>4.4.1 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</p>	<p><input type="checkbox"/> Modification of water stewardship plan</p> <p><input type="checkbox"/> Other :</p> <p>One Observation was raised.</p> <p>The factory doesn't update and modify water stewardship plan based on evaluation result.</p> <p>Evidences: NA</p>
STEP 5: Communication and Disclosure	

Criteria	Documents Reviewed
<p>5.1 Disclose water-related internal governance of the site's management:</p> <p>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</p>	<p><input checked="" type="checkbox"/> Summary of governance</p> <p><input type="checkbox"/> Other :</p> <p>Organization Chart of AWS Management System clearly shows the manager representative of environment and water stewardship, the responsible department and person. The Organization Chart is available on Want Wat Group's website: http://www.want-want.com/service/standard.htm</p> <p>Evidences: Want Want Group Website</p>
<p>5.2 Communicate the water stewardship plan with relevant stakeholders:</p> <p>5.2.1 The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders</p>	<p><input checked="" type="checkbox"/> Documented evidence of communicating</p> <p><input type="checkbox"/> Other :</p> <p>The water stewardship plan is available on Want Wat Group's website: http://www.want-want.com/service/standard.htm</p> <p>Evidences: Want Want Group Website</p>
<p>5.3 Disclose annual site water stewardship summary:</p> <p>5.3.1 A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum</p>	<p><input checked="" type="checkbox"/> Water stewardship performance summary</p> <p><input type="checkbox"/> Other :</p> <p>Water stewardship performance summary is available on Want Wat Group's website: http://www.want-want.com/service/standard.htm</p> <p>Evidences: Want Want Group Website</p>
<p>5.4 Disclose efforts to collectively address shared water challenges:</p> <p>5.4.1 The site's shared water-related challenges and efforts made to address these challenges shall be disclosed</p> <p>5.4.2 Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified</p>	<p><input checked="" type="checkbox"/> Disclosure evidence</p> <p><input type="checkbox"/> Other :</p> <p>Efforts to collectively address shared water challenges are available on Want Wat Group's website: http://www.want-want.com/service/standard.htm</p> <p>Evidences: Want Want Group Website</p>

Criteria	Documents Reviewed
<p>5.5 Communicate transparency in water-related compliance:</p> <p>5.5.1 Any site water-related compliance violations and associated corrections shall be disclosed</p> <p>5.5.2 Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable</p> <p>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</p>	<p><input checked="" type="checkbox"/> List of water-related compliance violations with corresponding corrective actions</p> <p><input type="checkbox"/> Other :</p> <p>No water-related compliance violations occurred at the site during 2020.</p> <p>Evidences:</p> <p>Want Want Group Website</p>

Advance indicators

Criteria	Evidences	Score
<p>1.4.3</p> <p>The embedded water use of primary inputs in catchment(s) of origin shall be quantified. (7 points)</p>	<p>Big-Want screened and identified the main suppliers, and then sent the questionnaires to investigate their indirect water consumption. Moreover, by using WWF's map of water risk filter, Big-Want also evaluated the water related risk level in the catchment where its suppliers are located.</p> <p>Evidences:</p> <p>Supplier questionnaires</p> <p>Supply Chain Water Risk Analysis Report</p>	7
<p>1.5.8</p> <p>Efforts by the site to support and undertake catchment level water-related data collection shall be identified. (4-7 points)</p>	<p>Big-Want's rainwater and wastewater water discharge via the municipal pipeline, and flow to the Yonghe River.</p> <p>Big-Want has conducted water quality testing of Yonghe River. One sampling point is selected which located at the discharged point of the municipal wastewater water treatment plant. The testing parameters consist of pH and COD.</p> <p>Evidences:</p> <p>Water testing report of Yonghe River</p>	4
<p>1.5.9</p> <p>The adequacy of WASH provision within the catchments of origin of primary inputs shall be identified. (4 points)</p>	<p>By search on the Statistic Yearbook of different provinces, Big-Want 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.</p> <p>Evidences:</p> <p>Supply Chain Water Risk Analysis Report</p>	4
<p>2.1.2</p> <p>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. (1 point)</p>	<p>A water stewardship commitment to follow all the AWS core criteria has been signed by the Director of Want Want Guangzhou. The commitment has been displayed on Want Want Group's website.</p> <p>Evidences:</p> <p>Commitment to Water Stewardship.</p>	1
<p>2.3.3</p> <p>The site's partnership/water stewardship activities with other sites within the same catchment (which may or may not be under the same</p>	<p>Big-Want works with Jinan University. They went to the university to conduct a lecture and share the experience with students. Also, they invited the students to have a site visit.</p> <p>Evidences:</p>	4

organisational ownership) shall be identified and described. (4 points)	Summary of Stakeholder Communication and Participation in AWS Projects	
2.3.4 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. (4 points)	As the first subordinate adopted the AWS, Big-Want shared the AWS knowledge and experience within the Want Want Group via internal communication. The other subordinates located outside the catchment. Evidences: Internal communication record.	4
3.1.3 Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified. (2 points)	Big-Want has established AWS Management System Procedure, as a guidance the implementation of AWS. Evidences: AWS Management System Procedure(Operation-3-WQ-014)	2
3.7.3 Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated. (5-7 points)	Big-Want screened and identified the main suppliers, and then sent the questionnaires to investigate their indirect water consumption. Moreover, by using WWF's map of water risk filter, Big-Want also evaluated the water related risk level in the catchment where its suppliers are located. Evidences: Supplier questionnaires Supply Chain Water Risk Analysis Report	5
3.9.6 Achievement of identified best practice related to targets in terms of good water governance shall be quantified. (8 points)	Big-Want has established AWS Management System Procedure, as a guidance the implementation of AWS. Big-Want has collected the best practices for AWS outcomes, and established a plan to achieve these outcomes. In the plan, the actions, cost, benefit, responsible person, timeline and status are listed, and the progress will be reviewed annually. As per review, It achieved the best practice targets related to water governance. Evidences: AWS Management System Procedure(Operation-3-WQ-014) The best practice goals and benchmark selection basis table for the AWS project of Guangzhou main plant.	8
3.9.10 Achievement of identified best practices related to targets in	Big-Want also conducted WBCSD self-assessment to evaluate the level of onsite WASH, and the result revealed that WASH was met the requirement.	4

terms of WASH shall be quantified. (8 points)	<p>Big-Want also conduct a gap analysis with “Hygienic Standards for the Design of Industrial Enterprises” (GBZ 1-2010), and the result showed that the requirements were fulfilled.</p> <p>Evidences: WBSCD self-assessment sheet Gap analysis report</p>	
<p>4.3.2</p> <p>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. (6 points)</p>	<p>In 2020, Big-Wants pay visit to stakeholders including government, water-related infrastructure, community, neighbour factory etc.</p> <p>During the visit, they discussed water-related issues including the challenges and opportunities, showed the water stewardship plan and obtained their feedbacks.</p> <p>In the stakeholder interview, they also gave the positive comments to the plant.</p> <p>Evidences: Summary of Stakeholder Communication and Participation in AWS Projects</p>	6
Total		49
AWS Level		Gold

Assessment Non-conformities:

During audit, two minor non-conformities were raised, and two observations were identified.

Minor non-conformities:

NO.	AWS Expectations	Description of non-conformity	Client's response and Documentation provided	Auditors' assessment
1	3.2.1 A process to verify full legal and regulatory compliance.	The factory does not complete the compliance assessment of water related laws and regulations.	<p>Root cause analysis: Laws and regulations collection systems and procedures for are established, but the effectiveness of water-related laws and regulations has not been evaluated. It will be gradually to assess whether the water-related laws and regulations are applicable to the site, and establish an operation mechanism.</p> <p>Corrections and Corrective Action:</p> <p>1. Refer to ISO14001, cooperate with the environmental safety office to optimize the identification process of laws and regulations, and clarify the process of collection, identification and effectiveness evaluation of terms. Conduct regular internal compliance assessment in accordance with the specific regulations of the environmental management system; 2. Establish an internal auditor training plan with the Environmental Safety Office, build a team that meets the internal audit requirements, and conduct regular internal audits; 3. Sort out the pre-identified terms again to ensure that the water-related laws and regulations in the site can be effectively identified.</p> <p>Proposed finished time: 31th May 2021</p>	Accepted.
2	4.1.1 Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.	The factory doesn't conducted annual review regarding to water stewardship.	<p>Root cause analysis:</p> <p>The annual review was planned to conduct during ISO14001 certification, which before AWS certification. However, the plan has changed.</p> <p>Corrections and Corrective Action:</p> <p>1. The 2020 management review will be held separately. Plan to hold it on 29th January 2021</p> <p>2. Reorganize the content of the 2020 management review meeting. The content mainly reflects annual AWS performance and work plan of 2021.</p> <p>3. For next year, the annual management review with carried out with the ISO14001.</p> <p>Proposed finished time: 29th Jan 2021</p>	Accepted.

Observations:

NO.	AWS Expectations	Description of non-conformity	Client's response and Documentation provided	Auditors' assessment
1	1.3.1 Existing water-related incident response plans	The wastewater treatment plant abnormal and accident emergency respond plan could be improved. Adding the scenario of malfunction of the WWTP and related responding measures (like emit to buffer pool, emergency shutdown, informing the municipal WWTP)	NA	NA
2	4.4.1 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	The factory doesn't update or modify water stewardship plan based on evaluation result.	NA	NA

8. Summary and Conclusion of the Assessment

In assessment of the water stewardship performance of the Guangzhou Big-Want Foods Ltd., it is apparent that the sites put considerable effort to adopt the AWS standard into the management system.

Two non-conformities were identified in this audit. Big-Want has been requested to make some improvement plans to address the Non-conformity to be fully compliant to the standard.

Two observations were issued during this audit. Auditors pointed out the areas that to be considered for improvement in the following implementation, however, no action is demanded during the audit cycle.

All evidences provided to TÜV Rheinland to address the non-conformity was reviewed and evaluated, to ensure the compliance to the AWS standard. All actions were accepted as sufficient to close the non-conformity. Therefore, all AWS core criteria are satisfied.

The advance-level criteria evaluation was performed and the score is 49 point, which fulfils the requirement of Gold Level (40 or more points).

In conclusion, Guangzhou Big-Want Foods Ltd. met the AWS Standard Version 2.0 - Gold Level.