

CERTIFICATION REPORT

Alliance for Water Stewardship (AWS)

Audit Number: AO-000486



SITE DETAILS

Site: **Victory Giant Technology (Huizhou) Co., Ltd.**

Address: Hangcheng Science Park, Huiyang District, 516211, Huizhou, Guangdong, CHINA

Contact Person: Chao Du

AWS Reference Number: AWS-000356

Site Structure: Single Site

CERTIFICATION DETAILS

Certification status: Certified Gold

Date of certification decision: 2023-Jan-13

Validity of certificate: 2026-Jan-12

AUDIT DETAILS

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

Audit Type(s): Initial Audit

Audit Start Date: 2023-Jan-10

Lead Auditor: Ian Jiang (TUV Rheinland)

Audit team participants:

Eugenia Deng (TUV Rheinland)

Site Participants:

Zhang Jiang Zhong, Director

Cao Jin Chen, Employee

Wu Hai Feng, Engineering Manager

Li Bo, Factory Engineer

Wang Cong Jun, Supply chain and Logistics Manager

Zhang Yu Fei, SHE Manager

Wang Hui Tao, SHE Manager

Ye Jie, Human Resources

Xu Shao Fang, Corporate Environmental & Sustainability

Peng Gan Xiang, Quality Controller

TUV Rheinland (Guangdong) Ltd.

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

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ADDITIONAL INFO

Summary of Audit Findings: A total of three findings were raised during the certification audit, zero major non-conformity, one minor non-conformity, two observations.

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 60 days of receipt of the audit report by 13/03/2023.

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

The audit team recommends certification of Victory Giant Technology (Huizhou) Co., Ltd. at Gold level pending approval of the corrective actions plan.

Closure of findings and corrective action plan:

The Client has successfully submitted the corrective action plan addressing all findings.

Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit.

Scope of Assessment: The scope of services covers the Initial certification audit for assessing conformity of Victory Giant Technology (Huizhou) Co., Ltd. against the AWS International Water Stewardship Standard Version 2.

Victory Giant Technology (Huizhou) Co., Ltd. located in Xingcheng Science Park, Danshui Street, Huiyang District, Huizhou City, Guangdong Province China, covering an area of 236000 square meters, with about 8000 employees. The company is specialized in the R&D, production and sales of high-precision multilayer printed circuit boards and HDI PCBs. Its products are widely used in computer, aerospace, automotive electronics (new energy), 5G new infrastructure, big data center, industrial interconnection, medical instruments and other fields. The facility has the wastewater treatment plant, water purification plant, dormitory and canteen.

The facility is located in the Dongjiang River Basin which is the sub-catchment of Pearl River Delta Basin.

The audit was conducted onsite on 10th to 13th January 2023.

The onsite visit included the assessment of all facilities in the site, including production building, wastewater treatment plant, water purification system, dormitory and canteen.

The following external stakeholders were interviewed during the audit: Environmental and Ecological Bureau, Bureau of Industry and Information Technology, employees, suppliers, neighbor community, Energy Conservation Association and Cleaner Production Association.

SCORE

64.00

FINDINGS

NUMBER OF FINDINGS PER LEVEL

Observation	2
Minor	1

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FINDING DETAILS

Finding No:	TNR-003440
Checklist Item No:	3.2.1
Status:	Open
Finding level:	Minor
Due date:	2023-Mar-13
Checklist item:	A process to verify full legal and regulatory compliance shall be implemented.
Findings:	During site tour, it is found that the anti-leakage layer in of a few areas has been damaged, including the hazardous waste warehouse and the chemical tank area (copper reducing agent) of the first plant.
Corrective action:	<p>Cause analysis:</p> <ol style="list-style-type: none">1. The daily maintenance is not enough, and the supervision of some regional responsible person is not in place;2. Affected by the epidemic control policy, the time of supplier's on-site assessment and maintenance operation could not be confirmed, resulting in the failure of the smooth implementation of the anti-leakage project.
Finding No:	TNR-003441
Checklist Item No:	3.9.1
Status:	Open
Finding level:	Observation
Checklist item:	Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.
Findings:	When carrying out activities related to water management, such as government and industry visits, water-saving experience sharing forums, etc., a list of activities can be properly prepared, and materials such as pictures or press releases can be retained.
Finding No:	TNR-003435
Checklist Item No:	4.1.1
Status:	Open
Finding level:	Observation
Checklist item:	Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated.
Findings:	When evaluating the effectiveness of water stewardship performance, it is suggested collecting the summary materials of water-saving projects, such as project introduction, water-saving statistics, etc.

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Report Details

Report	Value
Report prepared by	Eugenia Deng
Report approved by	Mia Antoni-Naidoo
Report approved on (Date)	16 March 2023

Surveillance

Proposed date for next audit
2024-Jan-08

Stakeholder Announcements

Date of publication	Location
09/12/2022	https://a4ws.org/wp-content/uploads/2022/12/AWS-000356-Victory-Giant-2022-Stakeholder-Announcement.pdf
09/12/2022	https://www.shpcb.com/socialshowdetail-29-357-1.html
12/12/2022	https://www.tuv.com/content-media-files/greater-china/about-us/downloads/aws-stakeholder-announcement-tuvgd-victory-giant-technology-(huizhou)co.-Ltd.%E8%83%9C%E5%AE%8F%E7%A7%91%E6%8A%80%E5%BC%88%E6%83%A0%E5%B7%9E%E5%BC%89%E8%82%A1%E4%BB%BD%E6%9C%89%E9%99%90%E5%85%AC%E5%8F%B8-(2).pdf
12/12/2022	WSAS and AWS Website

Catchment Information

Catchment Information
The site uses the tap water from Huiyang municipal water plant. The plant abstracts the water from Dongjiang River Basin.
Dongjiang River Basin Dongjiang River is one of the three major river systems in the the Pearl River Basin. It originates from Yajibo Mountain in Xunwu County, Jiangxi Province. Its source area includes Xunwu County, Anyuan County and Dingnan County in Jiangxi Province. It passes through Longchuan County, Dongyuan County, Yuancheng District, Zijin County, Heyuan City, Boluo County, Huicheng District, Huizhou City, and then reaches Shilong Town, Dongguan City, It flows into the river network area in the east of the the Pearl River Delta, and is divided into two water channels (the south branch and the north main stream) into the Shiziyang Ocean, and then goes to sea through Humen.
The wastewater is also discharged into Dongjiang River Basin after treated by the municipal wastewater treatment plant.

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Client Description and Site Details

Client/Site Background

Victory Giant Technology (Huizhou) Co., Ltd. located in Xingcheng Science Park, Danshui Street, Huiyang District, Huizhou City, Guangdong Province China, covering an area of 236000 square meters, with about 8000 employees. The company is specialized in the R&D, production and sales of high-precision multilayer printed circuit boards and HDI PCBs. Its products are widely used in computer, aerospace, automotive electronics (new energy), 5G new infrastructure, big data center, industrial interconnection, medical instruments and other fields. The facility has the dormitory and canteen.

Summary of Shared Water Challenges

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The site has identified four shared water challenges:

1. Extreme rainfall and flood disaster, priority as middle. The flood disaster affects the water and electricity supply and the safety of employees, thus affecting the normal production of the site.
2. Some tributaries have poor water quality, priority as middle. With the rapid development of economy, the capacity of water environment has been close to the limit. The government has promoted the treatment of black and smelly water bodies, river treatment, and the transformation of wastewater treatment facilities for enterprises.
3. River ecology and protection area, priority as low. The factory wastewater is discharged after onsite treatment, and then through the centralized sewage treatment plant. So, the direct impact on water ecology is relatively small.
4. Water shortage, priority as low. The water resource is sufficient at this stage. However, Huizhou has a low level of water resources development, and the government plans to reserve water sources and reservoirs. There is a risk for the future supply.

0.1 General Requirements for Single Sites, Multi-Sites and Groups

0.1.1 Eligibility Criteria

0.1.1.1 The site(s) occupy one catchment OR an exception has been granted.



Yes

0.1.1.2 The scope of the proposed certification shall be under the control of a single management system.



Yes

0.1.1.3 The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.



Yes

1 STEP 1: GATHER AND UNDERSTAND	
1.1	<i>Gather information to define the site's physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.</i>
1.1.1	<p><i>The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:</i></p> <ul style="list-style-type: none"> - Site boundaries; - Water-related infrastructure, including piping network, owned or managed by the site or its parent organization; - Any water sources providing water to the site that are owned or managed by the site or its parent organization; - Water service provider (if applicable) and its ultimate water source; - Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies; - Catchment(s) that the site affect(s) and is reliant upon for water. <p>Comment: The catchment where the site located and the water source of the site is Dongjiang River catchment. Wastewater destination is Danao River, which is flows into Daya Bay of Hanjiang river catchment. Water service provider of the site is Huiyang Water Co., Ltd. Municipal Sewage Plant of the site is Huizhou Kangda Yingzhihuang Water Co., Ltd.</p>
1.2	<i>Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.</i>
1.2.1	<p><i>Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:</i></p> <ul style="list-style-type: none"> - Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people; - Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies; - Provide evidence of stakeholder consultation on water-related interests and challenges; - Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups; - Identify the degree of stakeholder engagement based on their level of interest and influence. <p>Comment: Victory Giant established a list of stakeholders, which included their expectations for the site and the corresponding departments. In 2022, the site conducted questionnaire survey about concern and interest of stakeholders on water-related topic.</p>
1.2.2	<p><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></p> <p>Comment: The degree of influence between site and stakeholder has been identified of each stakeholder.</p>
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	<p><i>Existing water-related incident response plans shall be identified.</i></p> <p>Comment: VGT has established a series of emergency plans, including the situations of the failure of wastewater treatment facilities, water supply emergency, natural disasters and so on.</p>

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1.3.2	<i>Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped</i>	 Yes
Comment	VGT has established a comprehensive metering system to record the water input and output daily and drew up a water balance map of the site.	
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	VGT has established a comprehensive metering system, and they will record the water input and output daily and drew up a water balance map of the site. Therefore, the site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, could be quantified.	
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	VGT has established a comprehensive water monitoring program stipulated the types, sample point, frequency and parameters. VGT regularly monitors drinking water, wastewater, domestic water, groundwater and rainwater to understand the water quality status of the site. According to the testing report, the water quality meets demand.	
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 factory drew a water-related regional risk map, listing potential pollution sources including chemical loading and unloading areas, hazardous waste warehouse, liquid waste storage areas, and drug pumping areas.	
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	no IWRA identified in 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
Comment	The factory calculated the cost of tap water, pure water treatment, wastewater treatment, hazardous waste liquid treatment, and income from tin-stripping liquid, etching liquid and sludge.	
1.3.8	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	VGT evaluated the level of access and adequacy of WASH facilities at the site in accordance with national standards and uses the WBCSD tool for self-assessment.	
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

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Comment The factory conducted a questionnaire survey on the water-related status of suppliers of major raw materials. VGT analyzed the intensity of water consumption and water pollution based on their water quantity and quality. Meanwhile, by using WWF's map of water risk filter, the site has also analyzed the water related risk level in the catchment where its suppliers are located.

1.4.2 *The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.*  **Yes**


Comment VGT has the laundry and catering service providers which used the water within the site. VGT calculates the water consumption of the outsourcing service provider every month. Based on the investigation, the outsourced services mainly include the treatment and disposal of solid waste, the treatment of discharged effluent. The intensity of water consumption and water pollution has been analyzed based on their water quantity and quality.

1.4.3 *Advanced Indicator*
The embedded water use of primary inputs in catchment(s) of origin shall be quantified.  **Yes**


Comment The factory used WWF's map of water risk filter to evaluate the risk in the catchment of origin and conducted a questionnaire survey on the water use of primary inputs in the catchment of origin.

Score 7


1.5 *Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH*

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.*  **Yes**


Comment The factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which included water-related public plans and policy for Guangdong Province and Huizhou City.

1.5.2 *Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.*  **Yes**


Comment The factory has established 'Control Procedure for Collection and Update of Laws, Regulations and Other Requirements' SHZ-SAP-01 to control the applicable laws and regulation of national, provincial and city level. They also established a list of applicable laws, regulations and other requirements, to track and monitor the compliance.

1.5.3 *The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.*  **Yes**

Comment The factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which included 2021 water resources data for the Dongjiang river catchment.

1.5.4 *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.*  **Yes**

Comment The factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which included environmental quality of Dongjiang river, Hanjiang river, Danao River and Daya Bay.









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.*  **Yes**

Comment The factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which included 12 important water-related areas of priority concern within 30km from the factory, with their management status listed.

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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 factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which included status of wastewater treatment facilities, water supply facilities, and water transfer projects.	
1.5.7	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	The factory gathered water-related data for the catchment and compiled as VGT Catchment Report, which Huizhou's sewage treatment rate is 98.82% and water supply penetration rate is 100%.	
1.5.8	<i>Advanced Indicator Efforts by the site to support and undertake catchment level water-related data collection shall be identified.</i>	 N/A
Comment	The site does not perform this indicator.	
Score	6	
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 factory conducted a questionnaire survey to identify the rate of sewage treatment and municipal water supply in the catchment of origin of primary inputs.	
Score	4	
1.6	<i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i>	
1.6.1	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes
Comment	The factory identified four shared water challenges from the collected catchment data and stakeholders' concerns, which is extreme rainfall and flooding, poor water quality, river ecology, and water scarcity.	
1.6.2	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	The factory has developed an action plan for shared water challenges, which is disclosed on VGT's website.	
1.6.3	<i>Advanced Indicator Future water issues shall be identified, including anticipated impacts and trends</i>	 Yes
Comment	VGT collected data from study reports such as the 2021 Guangdong Provincial Marine Disaster Bulletin and the 2021 China Sea Level Bulletin, concluded that climate change will lead to sea level rise, which will cause future challenges such as salty tides, red tides, and increased extreme rainfall and flooding to VGT's catchment.	
Score	3	
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>	 N/A
Comment	The site does not perform this indicator.	

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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	VGT published a risk and opportunity identification and evaluation form. Based on risk analysis, VGT 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.	
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	VGT published a risk and opportunity identification and evaluation form. The site presents actions to engage, the prioritization matrix where water-related opportunities are implemented. The opportunities including the assessment and prioritization of potential savings and business opportunities.	
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	VGT has developed a collection form to collect the best practices from different source. The form includes the AWS outcome, the approaches, the indicator, the performance data and the source of the best practices. This form covered the water governance, water balance, water quality, IWRA and WASH.	
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
Comment	VGT has developed a collection form to collect the best practices from different source. The form includes the AWS outcome, the approaches, the indicator, the performance data and the source of the best practices. This form covered the water governance, water balance, water quality, IWRA and WASH. The sheet included a series of water saving measures to improve water efficiency, such as reuses the washing water from the back-end process to the front section in turn, and reuses the water treated to standard in the wastewater treatment station for production.	
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	VGT has developed a collection form to collect the best practices from different source. The form includes the AWS outcome, the approaches, the indicator, the performance data and the source of the best practices. This form covered the water governance, water balance, water quality, IWRA and WASH. Such as monitoring frequency of main pollutant, and active disclosure of water monitoring information.	
1.8.4	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	✓ Yes
Comment	VGT has developed a collection form to collect the best practices from different source. The form includes the AWS outcome, the approaches, the indicator, the performance data and the source of the best practices. This form covered the water governance, water balance, water quality, IWRA and WASH. One IWRA Such as monitoring the soil and ground water status.	
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	VGT provided sufficient drinking water facilities and hand-washing taps in the site and conducts quarterly tests on the drinking water and domestic water.	

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2 STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	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.
2.1.1	<p>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</p> <ul style="list-style-type: none"> - 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.
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the top manager of Victory Giant. The commitment has been displayed on Victory Giant's website. https://www.shpcb.com/uploads/soft/20230106/1673002978.pdf
2.1.2	<p>Advanced Indicator</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.</p>
Comment	A water stewardship commitment to follow all the AWS core criteria has been signed by the top manager of Victory Giant. The commitment has been displayed on Victory Giant's website. https://www.shpcb.com/uploads/soft/20230106/1673002978.pdf
Score	1
2.2	Develop and document a process to achieve and maintain legal and regulatory compliance.
2.2.1	<p>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</p> <ul style="list-style-type: none"> - Identification of responsible persons/positions within facility organizational structure - Process for submissions to regulatory agencies.
Comment	The site has established a process to maintain compliance obligations and has identified the persons responsible for each compliance activity. The site has established a laws and regulations list to track the applicable and review the compliance status.
2.3	Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.
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.
Comment	The site has developed a water stewardship strategy and announced it on its official website. The strategy includes the mission, vision and targets for water stewardship during 2022-2025. Moreover, the site also established a ten-year water-saving plan, which specific the technical path to achieve the target.

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2.3.2	<i>A water stewardship plan shall be identified, including for each target:</i> <ul style="list-style-type: none">- 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	<p>The water stewardship plan has been developed and scored against the 5 AWS outcomes, it currently contains following water stewardship plan actions:</p> <ol style="list-style-type: none">1. Water Recycle2. Clean out the old cooling tower and replace with square cross-flow water-saving cooling tower3. Water saving transformation of countercurrent water washing and adding flowmeter in production line4. Replace the faucet to water-saving faucet5. Cooperate with stakeholders' on ecological protection activities (within the basin)6. Water quality monitoring of Tamao River outside the plant (discharge outlet of centralized sewage treatment plant)7. Water-saving training for key suppliers8. Internal AWS system training9. Slope protection repair around the plant10. Nameplate identification of rainwater and sewage wells in the plant11. Copper extraction for etchant12. Extension of pickling tanks	
2.3.3	<i>Advanced Indicator</i> <i>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.</i>	 Yes
Comment	<p>On 3rd December 2022, 34 volunteers from Shenghong Technology, Qingcheng Environment, Huidong County Natural Ecological Protection Promotion Association, Huizhou Guanghui Trade Co., Ltd. (supplier), Guangdong Chao Hua Technology Co., Ltd. (supplier), Huiyang District Water Group Co., Ltd. and No. 4 Water Treatment Plant of Huiyang District pay visit to Huidong Port Marine Turtle National Nature Reserve.</p> <p>Through visiting the ecological science popularization facilities in the reserve, the participant learned the relevant knowledge of natural ecological protection, understood the great impact of ecological environment destruction on human life, so as to improve the participants' awareness of ecological environment and stimulate their enthusiasm for environmental protection practice.</p>	
Score	4	
2.3.4	<i>Advanced Indicator</i> <i>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.</i>	 N/A
Comment	<p>The facility does not perform this indicator.</p>	

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2.3.5	<i>Advanced Indicator</i> <i>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.</i>	 N/A
Comment	The facility does not perform this indicator.	
2.4	<i>Demonstrate the site's responsiveness and resilience to respond to water risks</i>	
2.4.1	<i>A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.</i>	 Yes
Comment	The site has identified its water risks covering water governance, sustainable water balance and water quality. A series of response plans to deal with water risks have been developed, such as natural disaster weather emergency plan, emergency response plan for sudden environmental events, production line exception handling process, etc	
2.4.2	<i>Advanced Indicator</i> <i>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.</i>	 N/A
Comment	The facility does not perform this indicator.	

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3 STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts		
3.1	Implement plan to participate positively in catchment governance.	
3.1.1	Evidence that the site has supported good catchment governance shall be identified.	✓ Yes
Comment	The site actively cooperates with the government agencies, such as attending the meeting, webinar or consultation hosted by government. The related participation record is provided for review.	
3.1.2	Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.	✓ Yes
Comment	The water rights are respected under legal and regulatory mechanisms, and there is no indigenous people in the catchment area.	
3.1.3	Advanced Indicator Evidence of improvements in water governance capacity from a site-selected baseline date shall be identified.	↓ N/A
Comment	The site does not perform this indicator	
3.1.4	Advanced Indicator Evidence from a representative range of stakeholders showing consensus that the site is seen as positively contributing to the good water governance of the catchment shall be identified.	↓ N/A
Comment	The site does not perform this indicator	
3.2	Implement system to comply with water-related legal and regulatory requirements and respect water rights.	
3.2.1	A process to verify full legal and regulatory compliance shall be implemented.	✗ No
Comment	<p>The site has established a procedure to ensure the operation meet the provisions of relevant laws, regulations and other requirements. The site will also conduct compliance evaluation on laws and regulations regularly and keep the records.</p> <p>However, during site tour, it is found that the anti-leakage layer in of a few areas has been damaged, including the hazardous waste warehouse and the chemical tank area (copper reducing agent) of the first plant.</p> <p style="text-align: right;">Finding No: TNR-003440</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, shall be implemented.	✓ Yes
Comment	The water rights are not part of legal and regulatory requirements in this region.	
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 2022) improvement action list, which specifies targets, required actions, measurement, status, effectiveness evaluation, accountable and deadline, etc. The site has formulated actions to reduce water consumption, improve water quality and improve water management to achieve targets in Water Stewardship plan, and follow up the progress of the actions. The site has implemented a number of measures in 2022 to improve its water efficiency, such as recycling process cleaning water as make-up water for cooling water towers, and recycling part of ETP treated wastewater for greening and flushing.	
3.3.2	<i>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.</i>	 Yes
Comment	The site has set a middle-term target for water saving, and established a water-saving implementation plan. The target is reduced 30% water consumption in 2029 compared with 2019.	
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>Advanced Indicator 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	For discharged water, the site has developed a comprehensive monitoring program which stipulates the parameter, frequency and sample point. The monitoring method includes online monitoring system, self-testing and third-party testing. The site checks the water quality of the ETP system. rainwater drainage to ensure the quality of wastewater discharged meets the control requirements and normal operation of the ETP. The site has developed a drinking water monitoring process to continuously monitor the quality of drinking water.	
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
Comment	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. No extra action is required at this stage.	
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	There are no Important Water-Related Areas in the site. For IWRA in catchment, the site has performed the Conservation Area Visiting activities. To raise the water-related awareness of the stakeholders.	

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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
Comment	The site has made standard toilet cleaning quality management cards and posted them to each toilet; The site has formulated sanitary standards and procedures for toilets to ensure that toilets continuously meet the requirements of sanitary standards. The site formulated drinking water management requirements for employees, and made standard drinking water dispenser management cards and posted them at each drinking water point to facilitate monitoring their maintenance.	
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 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>	 Yes
Comment	During pandemic, the site has donated money, good and materials to local school and communities to support the local health and hygiene, and the total amount achieved millions of yuan. For example, the site donated 1400 sets of protecting clothes to Huiyang District Health Bureau for epidemic prevention, and a batch of anti-epidemic materials to Huiyang No. 5 Middle School.	
Score	5	
3.6.4	<i>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

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Comment	<p>The site has carried out a series of actions to improve the water management ability of suppliers and promote suppliers to disclose environmental violations to achieve their indirect water use targets. The site tracks the achievement status of its targets, and actions are quantified.</p> <p>The site conducted a questionnaire survey on suppliers, including all raw material suppliers, chemical suppliers, and packaging material suppliers, and analyzed the indirect water used by suppliers according to the questionnaire.</p> <p>On October 2022, the site invited suppliers to participate in the AWS training organized by the site. The site screened the environmental violation records of suppliers on the IPE platform and required suppliers with violation records in recent three years to provide them with information on violations and rectification records. At present, the site has promoted two suppliers to submit feedback materials on violation records.</p>	
3.7.2	<p><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></p>	 Yes
Comment	<p>On October 2022, the site invited suppliers to participate in the AWS training organized by the site. The site screened the environmental violation records of suppliers on the IPE platform and required suppliers with violation records in recent three years to provide them with information on violations and rectification records. At present, the site has promoted two suppliers to submit feedback materials on violation records.</p>	
3.7.3	<p><i>Advanced Indicator</i></p> <p><i>Actions taken to address water related risks and challenges related to indirect water use outside the catchment shall be documented and evaluated.</i></p>	 Yes
Comment	<p>The site screened the environmental violation records of suppliers on the IPE platform and required suppliers with violation records in recent three years to provide them with information on violations and rectification records. At present, the site has promoted two suppliers to submit feedback materials on violation records.</p>	
Score	6	
3.8	<p><i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i></p>	
3.8.1	<p><i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i></p>	 Yes
Comment	<p>The site actively cooperates with the government supervision department to conduct supervisory inspections and visits.</p> <p>The site keeps close contact with local water-related infrastructure owners through many ways such as Wechat, e-mail or phone call.</p>	
3.9	<p><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></p>	
3.9.1	<p><i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i></p>	 Obs.
Comment	<p>The site is undertaking a number of initiatives to achieve water governance best practice. In 2022, the site arranged AWS training to employees, and their also organized the training the suppliers.</p> <p>The site also performed the stakeholder investigation via questionnaires and visiting.</p> <p>The site also participates the seminar or meeting organized by government to support the catchment governance.</p>	
3.9.2	<p><i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i></p>	 Yes

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Comment	The site has formulated plans to reduce water consumption, improve water quality and improve water management, and follow up the progress of the plan. Big-Want has formulated the 2022 water management implementation plan, which includes a number of implementation projects to improve the water efficiency of the site, such as: - Increase the volume of reclaim water via install new water reclaim facility. - Eliminate the old cooling tower and replace with new one with high efficiency. - Continue to promote the water saving transformation of countercurrent water washing and adding flowmeter to the production line. - Copper extraction project for wastewater of inner layer process.	
3.9.3	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>	 Yes
Comment	The site has set more stringent water quality targets, compared to regulations, for the wastewater that is discharged by the Wastewater Treatment Plant. (WWTP). The site is a responsible WWTP operator, with an on-site testing laboratory continuously monitoring COD before any water is discharged to the holding pond and then into the river. Test data is regularly verified by third-party test labs.	
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
Comment	There are no Important Water-Related Areas in the site. For IWRA in catchment, the site has performed the Conservation Area Visiting activities which stated in the WS plan. To raise the water-related awareness of the stakeholders as a starting point.	
3.9.5	<i>Actions towards achieving best practice related to targets in terms of WASH shall be implemented.</i>	 Yes
Comment	The site has made standard toilet cleaning quality management cards and posted them to each toilet; The site has formulated sanitary standards and procedures for toilets to ensure that toilets continuously meet the requirements of sanitary standards. The site formulated drinking water management requirements for employees, and made standard drinking water dispenser management cards and posted them at each drinking water point to facilitate monitoring their maintenance.	
3.9.6	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of good water governance shall be quantified.</i>	 N/A
Comment	The site does not perform this indicator.	
3.9.7	<i>Advanced Indicator Achievement of identified best practice related to targets in terms of sustainable water balance shall be quantified.</i>	 Yes
Comment	The site has formulated plans to reduce water consumption, improve water quality and improve water management, and follow up the progress of the plan. The site achieves Level one (the best level) in the recent Cleaning Production Assessment.	
Score	8	
3.9.8	<i>Advanced Indicator Achievement of identified best practices related to targets in terms of water quality shall be quantified</i>	 Yes

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Comment	For discharged water, the site has developed a comprehensive monitoring program which stipulates the parameter, frequency and sample point. The monitoring method includes online monitoring system, self-testing and third-party testing. The site checks the water quality of the ETP system. rainwater drainage to ensure the quality of wastewater discharged meets the control requirements and normal operation of the ETP. As per testing report, the result of wastewater is far below the legal requirement. The site has developed a drinking water monitoring process to continuously monitor the quality of drinking water.	
Score	8	
3.9.9	<i>Advanced Indicator</i> <i>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>Advanced Indicator</i> <i>Achievement of identified best practice related to targets in terms of WASH shall be quantified.</i>	 Yes
Comment	The site has made standard toilet cleaning quality management cards and posted them to each toilet; The site has formulated sanitary standards and procedures for toilets to ensure that toilets continuously meet the requirements of sanitary standards. The site formulated drinking water management requirements for employees, and made standard drinking water dispenser management cards and posted them at each drinking water point to facilitate monitoring their maintenance.	
Score	4	
3.9.11	<i>Advanced Indicator</i> <i>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>Advanced Indicator</i> <i>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>	 Yes
Comment	On 3rd December 2022, 34 volunteers from Shenghong Technology, Qingcheng Environment, Huidong County Natural Ecological Protection Promotion Association, Huizhou Guanghui Trade Co., Ltd. (supplier), Guangdong Chaochua Technology Co., Ltd. (supplier), Huiyang District Water Group Co., Ltd. and No. 4 Water Treatment Plant of Huiyang District pay visit to Huidong Port Marine Turtle National Nature Reserve. Through visiting the ecological science popularization facilities in the reserve, the participant learned the relevant knowledge of natural ecological protection, understood the great impact of ecological environment destruction on human life, so as to improve the participants' awareness of ecological environment and stimulate their enthusiasm for environmental protection practice.	
Score	8	
3.9.13	<i>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>	 N/A
Comment	The site does not perform this indicator.	

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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>	Q Obs.
Comment	The site has evaluated their performance against their targets listed in the water stewardship plan. The site specifies the requirements of evaluating site performance and its contribution to achieving water stewardship results based on the objectives of the water stewardship plan.	
4.1.2	<i>Value creation resulting from the water stewardship plan shall be evaluated.</i>	✓ Yes
Comment	The site analyzed its costs and value creation resulting from the implementation of water stewardship plan, especially the implementation of water-saving projects. The overall water saving of 2022 was over 110000 ton water.	
4.1.3	<i>The shared value benefits in the catchment shall be identified and where applicable, quantified.</i>	✓ Yes
Comment	The site performed the online water stewardship training to their suppliers, to increase the awareness on water and shared the water stewardship practices with the suppliers. The site also organized turtle conservation area visiting activities, and about 30 external stakeholders were invited. Through this activity, the knowledge and awareness was improved greatly.	
4.1.4	<i>Advanced Indicator 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	The site presents its emergency response procedure and plan identifying proposed preventive and corrective actions, as well as measures to mitigate future incidents. No water-related emergencies and extreme events occurred at the site in recent years.	
4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>	
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>	✓ Yes
Comment	The site performed a satisfaction survey regarding its water stewardship performance in 2022 via internet, where 466 people participated the survey. The survey results showed that 80% are very satisfied with or satisfied with the site's water stewardship.	

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4.3.2	<i>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>	 Obs.
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 established the water stewardship plan in 2023, as per the management review of the performance in 2022.	

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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	VGT disclosed Water Stewardship Disclosure Report on their website, which included chapters of water management org chart, water management strategy (2022-2025), water stewardship plan and performance of 2022, and shared water challenges and responses actions in the catchment.	
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	VGT disclosed Water Stewardship Disclosure Report on their website, which included chapters of water management org chart, water management strategy (2022-2025), water stewardship plan and performance of 2022, and shared water challenges and responses actions in the catchment.	
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	VGT disclosed Water Stewardship Disclosure Report on their website, which included chapters of water management org chart, water management strategy (2022-2025), water stewardship plan and performance of 2022, and shared water challenges and responses actions in the catchment.	
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	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	VGT disclosed Water Stewardship Disclosure Report on their website, which included chapters of water management org chart, water management strategy (2022-2025), water stewardship plan and performance of 2022, and shared water challenges and responses actions in the catchment.	
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 VGT conducted questionnaires with stakeholders and carried out ecological conservation activities with them.

5.5 *Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.*

5.5.1 *Any site water-related compliance violations and associated corrections shall be disclosed.*



Comment No water-related violations.

5.5.2 *Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.*



Comment No water-related violations.

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.*



Comment No water-related violations.

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Photographic Evidence from Audit



online monitoring.JPG



label for different types of wastewater.JPG

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water treatment facility.JPG



toilet.JPG

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rainwater emergency pump.JPG



Yes



groundwater testing well.JPG

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potable water.JPG



discharge point.JPG



hazardous waste storage area.JPG