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Alliance for Water Stewardship Assessment Report

as per AWS Standard Version 2.0

For

Suntory Beer Limited, Kyusyu Kumamoto Plant

478 Hachimansui, Kitaamagi, Kashima-machi, Kamimashiki-gun, Kumamoto 861-3104 Japan

Prepared by: TÜV Rheinland
Cert. Number: AWS-000187
Version: 2.0
Date: 20th November 2020

System
CSS-Corporate Sustainability Service

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Contents

1. Client and Certification Details

Client Name:	Suntory Beer Limited, Kyusyu Kumamoto Plant
Audit location:	478 Hachimansui, Kitaamagi, Kashima-machi, Kamimashiki-gun, Kumamoto 861-3104 Japan
Country:	Japan
Activities/Processes:	Beverage (Beer, Soft drink, Water etc.) manufacturing
Contact person:	Hiroshi_Yuzawa
Contact email:	Hiroshi_Yuzawa@suntory.co.jp
Company website:	https://www.suntory.com/
AWS Reference Number:	AWS-000187
Type of audit:	Surveillance assessment
Audit date(s):	6th November 2020
Audit Standard:	V2.0 Core
Proposed date of next audit:	6th November 2021
Audit report completed by:	Ian Jiang
Contact email:	Ian.Jiang@tuv.com

2. Executive Summary

The scope of service covers the conformity assessment of water management and usage for Suntory Beer Limited Kyusyu Kumamoto Plant. The assessment was completed in compliance with the AWS Standard Version 2.0 dated on Mar 2019.

Suntory Beer Limited Kyusyu Kumamoto Plant is a beverage manufacturer, producing a variety of products under the brand of Suntory. The products include beer, soft drink, tea, coffee and mineral water etc. The premises occupied about 400,000 square meters, and has about 300 employees.

The production process for beer is boiling-filtration-fermentation-bottling-packing-shipping, for other product, the process is flavor mixing-bottling-packing-shipping.

It located at the 478 Hachimansui, Kitaamagi, Kashima-machi, Kamimashiki-gun, Kumamoto 861-3104 Japan. The plant is in an industrial park with several factories around. A few miles away the plant is a number of farming land. The site only uses groundwater for production and domestic usage. The wastewater is treated by the onsite wastewater treatment plant, and then discharged to the local river.

Findings summary:

- Total: 6
- Major non-conformities: 0
  Minor non-conformities: 2
- Observation: 4

Client's response:
The plant responded the non-conformities with root cause analysis, corrective action, responsible person and timeline. After the review, all the non-conformities were addressed.

Certification level: Core
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 Suntory Beer Limited Kyusyu Kumamoto Plant AWS Core Certified status. Surveillance audit should be conducted on an annual basis.

3. Scope of Assessment

Client factories main products	beer, soft drink, bottled water
Client factories production processes	Beer: boiling-filtration-fermentation-bottling-packing-shipping Other product: flavor mixing-bottling-packing-shipping.
Assessment preparations activities include:	Document review, stakeholder comments collecting
Assessment on-site activities includes:	Document review, management interview, employee interview, onsite pre-recording
Assessment follow-up activities includes (in any):	Non-conformity follow up

4. Description of the Catchment

The plant only uses groundwater as the water source. Based on the research, the groundwater is mainly forming in the Aso Volcano area, which covering the central area of Kumamoto. The total groundwater area is about 400 square kilometers.

The wastewater is treated by the onsite treatment plant, and then discharged into a small river called Amamizu river. The Amamizu river flows toward west, after merging with several rivers, it reaches a major river, the Kase river. The Kase river finally flows into the Ariake sea which is about 20km away from the plant, with about 600 million cubic meters flow annually. The plant defined the catchment area in the conflux point of the Kase river, making the downstream area about 50 square kilometer.

Photo 1 Geographical description and map of the catchment.

The area within the red circle is the groundwater forming area, and the blue dot is the plant.

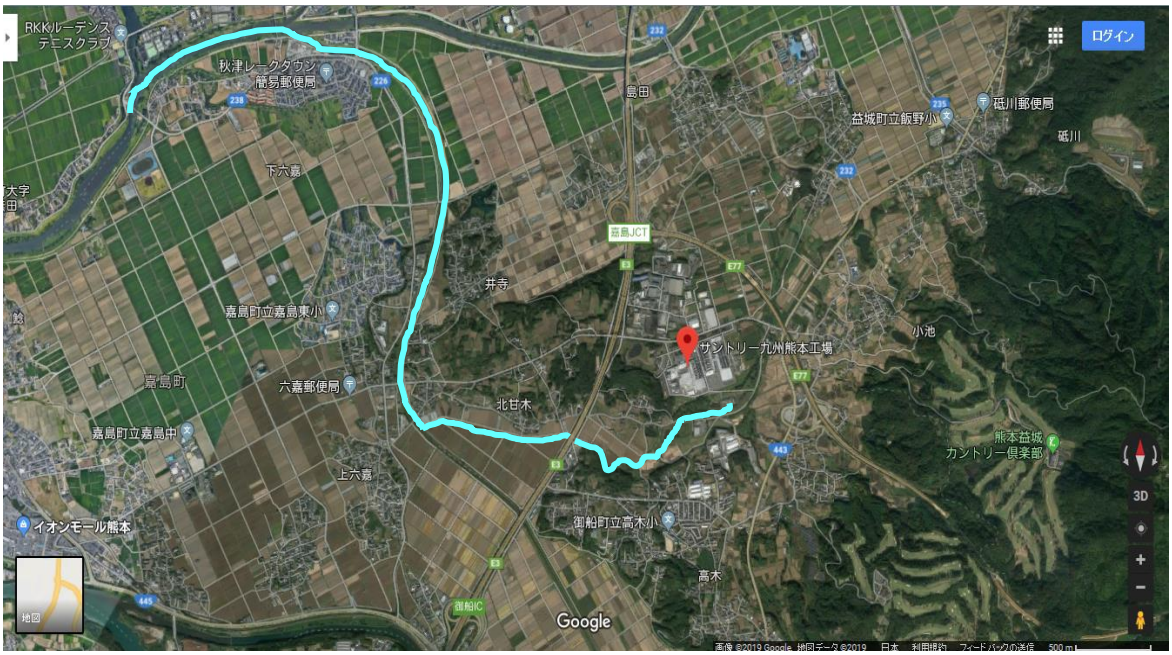

Photo 2: Geographical description and map of the catchment.
The red dot is the plant, and the cyan line is the local river system, at the end the Kase river.

5. Summary of the Stakeholder Interview

During the audit, auditor conducted the remote interview with four stakeholders by phone call.

The details are listed in the follow sheet.

Stakeholder name	Stakeholder type	Summary
Mr. Omukai	Local Resident, and Suntory's affiliated company	AWS activity: Knows effort to responsibly control water balance, water quality and does activity widely. Positiveness: Knows effort to conserve water in natural water forest "Ten-nen-sui-no-mori". It demonstrates Suntory philosophy to embrace water resource. Such philosophy and policy draws empathy from academic people and plant tourers. Negativeness: None. Expectation: Since some rivers in Kumamoto pref. are nominated as Japan top 100 river in terms of quality and beauty therefore the control of such water resources are important not only to make and consume products. With stakeholder collaboration, Suntory Kumamoto plant takes a role not only production site but also the space where more stakeholders are connected.
Mr. Matsuo	Supplier	AWS activity: Knows site was awarded ISO14001 and keeps governance activity since many years ago. The activity includes wastewater quality control, water balance monitoring. Positiveness: Knows the site makes effort to create double amount of water consumption used onsite by water conservation "Ten-nen-sui-no-mori". Negativeness: None. Expectation: It gets lesser load on water supply by creating affluent water resource.
Mr. Kodama	Employee	AWS activity: Knows effort to conserve water by filing water in paddy field in winter "Fuyu-mizu-tanbo" and natural water forest "Ten-nen-sui-no-mori". Positiveness: Knows effort to create water more than use and cut unnecessary wood to get more sunlight into natural water forest "Ten-nen-sui-no-mori". Negativeness: None Expectation: Water conservation activity "Fuyu-mizu-tanbo" is more taken up by media as good practice.

Mr. Kinoshita	Employee	AWS activity: Knows effort to reduce water consumption unit rate by 1% every year. Positivness: Knows effort to keep such water saving practice for many years despite it gets fewer factors to reduce water consumption. Negativeness: It gets a trend to less investment for equipment and facility due to the inexpensive cost of water use. Expectation: To achieve target on decrease of water consumption unit rate by 15% in 2030 vs the one in 2015.

6. Summary of Shared Water Challenges

Water-related challenges	Initiatives by related public institutions	Relevance to stakeholders	Relevance to site	Priority	Reason for prioritization
Depletion of underground water resource	There is a description about the amount of pumped water on the website of the Environmental Affairs Bureau, Kumamoto Prefecture Environment and Living Department, and monitoring is being carried out.	Domestic water is important as agricultural water	It is an indispensable resource for product production.	1	Sustainable use of groundwater resources is in the interests of the factory and all its stakeholders.
The contamination of the Tensui river	The website of the Environmental Affairs Bureau, Environmental Affairs Bureau, and Kumamoto Prefecture describes the water quality measurement results and monitors them. Our efforts are as follows. Measurement of wastewater quality regulations (pH, BOD, SS, coliform bacteria) through laws and agreements	Agricultural water is important.	There is a possibility that operations will not be possible due to administrative sanctions when wastewater exceeds the regulation value.	2	The factory carries out advanced wastewater treatment (wastewater treatment system), and also handles vehicle oil leaks for rainwater (rainwater system), which may pollute the Tensui River.

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	
1.1 Define the physical scope: 1.1.1 Map site boundaries; 1.1.2 Water-related infrastructure, including piping network, owned or managed by the site or its parent organization 1.1.3 Any water sources providing water to the site that are owned or managed by the site or its parent organization 1.1.4 Water service provider (if applicable) and its ultimate water source 1.1.5 Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies 1.1.6 Catchment(s) that the site affect(s) and is reliant upon for water	☒ Documentation or map of the site's boundaries ☒ Names and location of water sources ☒ Names and location of effluent discharge points ☐ Other : The map of water supply and effluent discharge point were available. Names and location of water sources and effluent discharge points were defined, and the geographical description is clear. Evidences: Layout of the plant and catchment.
1.2 Understand relevant stakeholders: 1.2.1 Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified 1.2.2 Current and potential degree of influence between site and stakeholder shall be identified	☒ List of stakeholders ☒ Water-related challenges ☒ Current and potential degree of influence ☐ Other : List of stakeholders was defined, and their influence and interest were evaluated as well. One minor non-conformity was raised. The plant conducted the stakeholder identification/engagement, but they did not establish a written procedure of the process of stakeholder identification/engagement. Evidences: Analysis sheet of stakeholders.

Criteria	Documents Reviewed
1.3 Gather water-related data for the site: 1.3.1 Existing water-related incident response plans 1.3.2 Site water balance, including inflows, losses, storage, and outflows 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 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 1.3.5 Potential sources of pollution, including chemicals used or stored on site 1.3.6 Mapping on-site Important Water-Related Areas, including a description of their status including Indigenous cultural values 1.3.7 Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value 1.3.8 Levels of access and adequacy of WASH at the site	☒ Water-related incident response plans ☒ Site water balance (in Mm^3 or m^3) ☒ Water quality of the site's water source(s), provided waters, effluent and receiving water bodies, such as water test reports ☐ Other : Water stewardship and incident response plans was issued. Annual basis site water balance (in Mm^3 or m^3) is defined. Physical, chemical and biological status of the site's direct and outsourced water effluent were defined as pH,BOD,COD,SS,TP, TN etc. Evidences: Emergency response plan for different scenario. Site water balance and water quality testing report.
1.4 Gather data on the site's indirect water use: 1.4.1 The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment 1.4.2 The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified	☒ List of primary inputs ☒ List of outsourced services ☐ Other : List of primary inputs was updated as per investigation results List of outsourced services was available by investigating supply chain water use. Evidences: List of suppliers and their indirect water consumption.

Criteria	Documents Reviewed
1.5 Gather water-related data for the catchment: 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 1.5.2 Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights 1.5.3 The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance 1.5.4 Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified 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 1.5.6 Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events 1.5.7 The adequacy of available WASH services within the catchment	☒ Water governance initiatives ☒ Applicable water-related legal and regulatory requirements ☒ Catchment water balance (in Mm^3 or m^3) ☒ Documentation identifying Important Water-Related Areas (IWRA) ☐Other : The catchment plan and relevant goals have been collected. Applicable water-related legal and regulatory requirements was gathered and assessed once per year. One minor NC was raised due to some regulations were missed. Documentation identifying Important Water-Related Areas are Okudaisen Natural water sanctuary. Water discharge agreement with the government, pH 5.8~8.6, BOD 20mg/L, SS 40mg/L Evidences: Catchment report.
1.6 Understand current and future shared water challenges in the catchment: 1.6.1 Shared water challenges shall be identified and prioritized from the information gathered 1.6.2 Initiatives to address shared water challenges	☒ List of shared water challenges ☐ Other : Water-related challenges were that the Water pollution and water resource scarcity, which maybe affect the production and reputation lost. Evidences: List of shared water challenges.

Criteria	Documents Reviewed
1.7 Understand the site's water risks and opportunities: 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 1.7.2 Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities	☒ List of water risks facing the site ☒ List of water-related opportunities ☐ Other : List of water risks facing the site were defined. List of water-related opportunities were defined and prioritized. Estimate of potential savings/value was calculated issued on regular program cycle. Evidences: List of water risks and opportunities.
1.8 Understand best practice towards achieving AWS outcomes: 1.8.1 Relevant catchment best practice for water governance 1.8.2 Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) 1.8.3 Relevant sector and/or catchment best practice for water quality, including rationale for data source 1.8.4 Relevant catchment best practice for site maintenance of Important Water-Related Areas 1.8.5 Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services	☒ Relevant catchment best practices ☐ Other : Suntory has identified relevant catchment best practice for water balance, water quality, IWRA and WASH. One minor non-conformity was raised. The best practices of water governance is incomplete, the external practices or efforts to collected are not demonstrated. Evidences: Best practices summary.
STEP 2: Commit	
2.1 Commit to water stewardship: 2.1.1 A signed and publicly disclosed site statement OR organizational document	☒ Statement ☐ Other : Site statement "Commitment on AWS "signed by Mr.Katsumi Oshita plant manager dated Oct 1st, 2020 was put on reception hall, staff pathway, environmental activity space in plant and site report in website. Statement addressed five (5) water stewardship outcomes to be realized by seeking effort through cooperating public agencies and the best effort the site makes even with all stakeholders in transparency. Evidences: Commitment to water stewardship

Criteria	Documents Reviewed
2.2 Develop and document a process to achieve and maintain legal and regulatory compliance: 2.2.1 The system to maintain compliance obligations for water and wastewater management shall be identified	☒Documented description of system ☐Other : Compliance obligations for water and waste water management were identified. Responsible persons/positions within facility organizational structure was Mr.Katsumi Oshita plant manager. Process for submissions to regulatory agencies was confirmed by "emergency call flow" which describes who the person in first place to call and which public agency to be called in the end such as firefighting dep, health and safety dep and police. Also following laws and regulations are confirmed to be compliant. Evidences: Environmental Regulations Registration Book and monitoring table

Criteria	Documents Reviewed
2.3 Create a water stewardship strategy and plan: 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 2.3.2 A water stewardship plan shall be identified	☒ Water stewardship strategy ☒ Water stewardship Plan ☐ Other : Water stewardship plan was identified. Three (3) targets were set and details are here. 1)Water conservation which further drives a)increase functionality of water conservation, b)maintain and improve bio diversity, - Planned timeframes to achieve it: Jan-Dec 2019 in short, 2003-2063 in long as contracted with municipality. - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes. To be researched 2)Water saving which reduces water consumption unit rate from 5.97m3/KL in 2015 to 5.07 in 2030 by 15% - Actions to achieve and maintain (or exceed) it: Seeking water saving methodology. - Planned timeframes to achieve it: Jan-Dec 2019 in short, 2015-2030 in long. - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes. To be researched 3) Waste water control which keeps it under regulation. - Actions to achieve and maintain (or exceed) it: Gives proper control on individual waste water pit and utilize external service provider. - Planned timeframes to achieve it: 2015 onwards. - Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes. To be researched Evidences: Water Stewardship strategy and plan.

Criteria	Documents Reviewed
2.4 Demonstrate the site's responsiveness and resilience to respond to water risks: 2.4.1 A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies	☒ Water risk mitigation plan ☐ Other : Site plans of water conservation to mitigate identified water depletion risk in coordination with municipality was identified. There was a contract with municipality signed in Feb 2003. Evidences: Responsiveness Plan
STEP 3: Implement	
3.1 Implement plan to participate positively in catchment governance: 3.1.1 Evidence that the site has supported good catchment governance 3.1.2 Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.1	☒ Good catchment governance evidence ☒ Identified measures ☐ Other : The site has participated the management meeting held by local authority, to report the status-quo of the underground water. Evidences: Meeting schedule and attendant list.
3.2 Implement system to comply with water-related legal and regulatory requirements: 3.2.1 A process to verify full legal and regulatory compliance 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	☒ Legal and regulatory compliance verification process ☒ Identified measures (if applicable) ☐ Other : The applicable laws and regulations were collected. Based on research, no violation happened since last three years. Evidences: Environmental Regulations Registration Book and monitoring table

Criteria	Documents Reviewed
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 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 3.3.3 Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs	☒ Status of progress ☒ Water use efficiency annual target (if applicable) ☐ Legally-binding documentation (if applicable) ☐ Other : The site has implemented some water saving actions to improve the water balance, including condensation water recycle, cooling water saving and multiple use of the water etc. Based on the document check, the water consumption per ton product of 2019 reduced about 6% compared with 2015. Evidences: Water consumption report and plan.
3.4 Maintain or improve site water quality: 3.4.1 Status of progress towards meeting water quality targets set in the water stewardship plan 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	☒ Status of progress ☒ Site's effluent best practice (if applicable) ☐ Other : The site has implemented below measure to monitor the water quality: online testing system, manual testing, and third party testing. Based on the document, the effluent quality is in compliance with the legal requirements. Based on the search on the local water bureau, the water quality of the catchment is maintain. Evidences: Water testing report.
3.5 Implement plan to maintain or improve the site's and/or catchments IWRAs: 3.5.1 Practices set in the water stewardship plan to maintain and/or enhance the site's IWRAs shall be implemented	☒ Practices set in the water stewardship plan ☐ Other : The site conducted the investigation of the underground water forming mechanism, and developed the forest conservation plan in the Aso Volcano area. To protect the mountain and the underground water resource as well. Evidences: Forest conservation project summary.

Criteria	Documents Reviewed
3.6 Implement plan to provide access to WASH: 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 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	☒ Evidence of site's provisions of WASH ☐ Evidence of site operations not affecting water rights of surrounding environment ☐ Other : The site has conducted potable water testing to ensure the safety of the water, provided training on sanitation, and posted the notice of washing hands. Evidences: WASH summary report.
3.7 Implement plan to maintain or improve indirect water use within the catchment: 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 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	☒ List of suppliers and service providers ☒ Evidence of engagement with suppliers and service providers ☐ Other : The site has conduct the water use investigation on the supplier, like questionnaires filling, to get an overview of the suppliers. Based on the result, all of them are suppliers outside the catchment area. There are no suppliers in the catchment / basin. Evidences: Supplier evaluation form.
3.8 Notify the owners of shared water-related infrastructure of any concerns: 4.8.1 Evidence of engagement, and the key messages relayed with confirmation of receipt	☒ Evidence of engagement ☐ Other : The site has monitored the water quality of the underground water and downstream river. Evidences: Communication report.

Criteria	Documents Reviewed
3.9 Implement actions to achieve best practice towards AWS outcomes: 3.9.1 Actions towards achieving best practice, related to water governance 3.9.2 Actions towards achieving best practice, related to targets in terms of water balance 3.9.3 Actions towards achieving best practice, related to targets in terms of water quality 3.9.4 Actions towards achieving best practice, related to targets in terms of the site's maintenance of IWRAs 3.9.5 Actions towards achieving best practice, related to targets in terms of WASH	☒ Actions related to water governance ☒ Actions related to water balance ☒ Actions related to water quality ☒ Actions related to IWRAs ☒ Actions related to WASH ☐ Other : Suntory implemented actions to achieve these five outcomes. The progress will be reviewed regularly. Evidences: Actions list.
STEP 4: Evaluate	

Criteria	Documents Reviewed
4.1 Evaluate the site's performance: 4.1.1 Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated 4.1.2 Value creation resulting from the water stewardship plan shall be evaluated 4.1.3 The shared value benefits in the catchment shall be identified and where applicable, quantified	☒ Performance against targets ☒ Value creation ☐ The shared value benefits (if applicable) ☐ Other : Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes was evaluated. Evaluation, for Target 1) Water conservation, shows that it's achieved some certain level by doing all planned activity. For target 2) Water savings, shows that it's achieved by 6% decrease of water consumption unit rate in 2019 compared to 2015. For target 3) Waste water control, shows that it's achieved some certain level by doing all planned activity. Value creation resulting from the water stewardship plan was evaluated. Evaluation, for Target 1) Water conservation, shows that it created four (4) values. (1)Brand value enhancement on Suntory and natural water country "ASO", (2) Water conservation functionality improvement, (3) Bio diversity enhancement, (4) Public resource value creation. JPY 5,288K for water flood prevention, JPY 1,612K for water reservoir, JPY 5,583K for water qualitative purification. All those are calculated by "evaluation manual" issued by forestry agency. Shared value benefits in the catchment was identified and key benefit was quantified. For target 1) Water conservation, shared value benefits are (1) water conservation functionality improvement, (2) Bio diversity enhancement, (3) Public value creation on forest preservation (102ha) in which financial benefit was addressed in 4.1.2. For target 2)Water savings, shared value benefits are (1)Underground water resource preservation, (2)Reduce water use while maximize production output, (3)Water quality stabilization downstream from "Amamizu" river. Evidences: Performance review.

Criteria	Documents Reviewed
4.2 Evaluate the impacts of water-related emergency incidents: 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	☒ A written annual review and root-cause analysis ☐ Other : Written annual review was prepared where site practiced emergency response drill on chemical leakage from wastewater treatment facility was shown. Drill was implemented during 15:30-16:00 on Jun 30th, 2020 where two (2) person participated and demonstrated. Participants were able to use emergency call flow and executed emergency stop on facility. Nine (9) people unable to attend was requested self-study with its instruction. No incident has been occurred during 2019 therefore training for future prevention was carried out as such. Evidences: Emergency drill report
4.3 Evaluate the stakeholders' consultation feedback: 4.3.1 Consultation efforts with stakeholders on the site's water stewardship performance shall be identified	☒ Stakeholder feedback ☐ Other : Consultation efforts with stakeholders on the site's water stewardship performance was identified. Two (2) stakeholder feedbacks were shown. 1) As of Oct 25th, 2019, Mr.Jun Shimada, professor Kumamoto University said positive aspect referring "waste water control" and "water conservation in paddy field in winter" is quite meaningful while further taking up to sustainability of underground water quality was also highly expected though. 2) As of Oct 30th, 2019, Mr.Tadashi Kiyofuji, Chief, environment section, environment dep, Kumamoto pref. said positive aspect referring to water conservation activity. Site evaluated those feedbacks as site's water stewardship performance was good some to the extent. Evidences: Written comments

Criteria	Documents Reviewed
4.4 Evaluate and updated the site's water stewardship plan: 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	☒ Modification of water stewardship plan ☐ Other : Site's water stewardship plan was modified to the points which are 1) stakeholder list to cover wider groups, 2) catchment scope to cover wider water risks. Those changes were made from recommendation in AWS audit in 2019. Evidences: Water Stewardship Plan
STEP 5: Communication and Disclosure	
5.1 Disclose water-related internal governance of the site's management: 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	☒ Summary of governance ☐ Other : The site's water-related internal governance was disclosed. Internal governance showed two (2) org chart. One (1) org is for "Environmental preservation cooperation" formed by all entity onsite including external service providers. This cooperation meeting discusses wider scope of site. Another one (1) is for "environmental preservation committee" formed by all internal staffs. This committee discusses mainly internal issues including technology like water savings. Mr. Katsumi Oshita Suntory Kumamoto plant manager is accountable for compliance with water-related laws and regulations. Evidences: Company Website

Criteria	Documents Reviewed
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	☒ Documented evidence of communicating ☐ Other : Site disclosed water stewardship plan to relevant stakeholders. Site visited municipality(Environmental promotion dep in Kumamoto pref.) on 22nd Aug, 2019 where site reported on their AWS activity including plan, expected outcomes and continuous commitment and got feedback from Mr.Tadashi Kiyofuji saying that officer from Ministry of Land, Infrastructure, Transport and Tourism also gave admiration for site's activity. Evidences: Company Website
5.3 Disclose annual site water stewardship summary: 5.3.1 A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum	☒ Water stewardship performance summary ☐ Other : Site disclosed water stewardship performance against plan to relevant stakeholders. As for plan 1.water conservation performance regarding activity of natural water forest "Aso" was communicated through website primarily local community and consumers. Plan 2.water saving was also communicated mainly with site's org internally. Plan 3.waste water control was done as well to local municipal welfare office in Mifune town. Evidences: Company Website

Criteria	Documents Reviewed
5.4 Disclose efforts to collectively address shared water challenges: 5.4.1 The site's shared water-related challenges and efforts made to address these challenges shall be disclosed 5.4.2 Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified	☒ Disclosure evidence ☐ Other : Shared water-related challenges were 1) to prevent water resource depletion and 2) to protect water quality in the river. Site disclosed actions for challenges 1) taking control of underground water abstraction amount, 2) maintaining water quality in Amamizu river. Efforts made by site was identified. Site disclosed following information to Kumamoto governor in Apr 2020 as performance report, 1) annual amount of ground water abstraction onsite, 2) rationale plan 2020 use of underground water, 3) plan 2020 underground water conservation. In addition well water abstraction record in 2019 was going to submit in Nov 2020 as annual event. Waste water discharge quality regarding key figures in regulation (pH, BOD, SS, Coli form) was as well reported and put into Kumamoto pref. website open for public. Evidences: Company Website

Criteria	Documents Reviewed
5.5 Communicate transparency in water-related compliance: 5.5.1 Any site water-related compliance violations and associated corrections shall be disclosed 5.5.2 Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable 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	☒ List of water-related compliance violations with corresponding corrective actions ☐ Other : Compliance violation record was identified and showed no legal violation since 2003 when site started operation. Site voluntarily reported an observation in Amamizu river regarding bubbling on surface to public agencies i.e. Mifune welfare office, Mifune town office, Kashima town office. No corrective action has been necessary since no violation was found and occurred. No site water-related violation that may pose significant risk and threat to human or ecosystem health was identified in record. Should it occurs, site has emergency call flow to relevant public agencies. Evidences: Company Website

Assessment Non-conformities:

Minor non-conformities:

Total two minor non-conformities were identified during the audit.

NO.	AWS Expectations	Description of non-conformity	Client's cause analysis	Client's corrective action plan
1	1.2.1	The plant conducted the stakeholder identification/engagement, not they did not establish a written procedure of the process of stakeholder identification/engagement.	The stakeholder was collaborated with the spectators of the in-house related departments and was listed with a fixed procedure and evaluation criteria, but the process was not documented. The point of view that anyone can continuously evaluate and evaluate stakeholders with the same criteria has been leaked.	After re-discussing with related departments within the company, we will document the procedure manual and evaluation criteria so that we can continue to review the list based on the determined criteria.
2	1.8.1	The best practices of water governance is incomplete, the external practices or efforts to collected are not demonstrated.	Although we conducted water-saving best practice evaluations of domestic beer factories and best practice evaluations of soft drinks through external literature, information from a wider range of sources (ex. White paper issued by the government, competitor cases, cases in the Kyushu region) There was a lack of perspective to collect and utilize it in their own activities.	By expanding the sources of information to be acquired and comparing and evaluating the data resources compiled in Suntory Roof, we will identify best practices for water governance and utilize them in our own improvement activities. This will also be promoted in collaboration with our related departments.

Observations:

Four observations were identified during the audit.

NO.	Description of Observation	Client's response and Documentation provided
1	Specify the accurate location of the raw material suppliers in Japan, recommend to establish an inventory of the suppliers（name, provided materials, location etc.）.	
2	Improve information collection of WASH services within the catchment.	

NO.	Description of Observation	Client's response and Documentation provided
	(Search the information via the local government/university, identify the percentage of the catchment population with access to good water and wastewater services)	
3	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. Note that strategy shall include 5 outcomes of water stewardship program.	
4	Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated. Note that performance evaluation shall include 5 outcomes of water stewardship program.	

8. Summary and Conclusion of the Assessment

In assessment of the water stewardship performance of the Suntory Beer Limited, Kyusyu Kumamoto Plant, it is apparent that the sites put considerable effort to adopt the AWS standard into the management system.

Two minor-conformities were raised during the assessment. The Suntory has been requested to make some improvement plan to address the non-conformities to fully compliant to the standard.

Four observations which were issued during this audit, auditors have 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-conformities were reviewed and evaluated to ensure the compliance to the AWS standard. All actions were accepted as sufficient to close the non-conformity.

In conclusion, the Suntory Beer Limited, Kyusyu Kumamoto Plant met the AWS standard Version 2.0- Core Level.

9. Appendix

None