

Alliance for Water Stewardship Assessment Report

as per AWS Standard Version 2.0

For

Suntory Products Limited Minami Alps Hakushu Water Plant

2913-1 Torihara, Hakushu-cho, Hokuto-shi, Yamanashi, 408-

0316 Japan

Prepared by: TÜV Rheinland AWS Site Registration Number: AWS-000374 Version: 2.0 Date: 20th – 22nd October 2021



Contents

- 1. Client and Certification Details
- 2. Executive Summary
- 3. Scope of Assessment
- 4. Description of the Catchment
- 5. Summary of the Stakeholder Meeting
- 6. Summary of Shared Water Challenges
- 7. Indicator Checklist
 - Major Non-conformities
 - Minor Non-conformities
 - Observations
- 8. Summary and Conclusion
- 9. Opportunity and Recommendation
- 10. Appendix



1. Client and Certification Details

Client Name:	Suntory Products Limited Minami Alps Hakushu Water Plant		
Audit location:	2913-1 Torihara, Hakushu Town, Hokuto City, Yamanashi,		
	408-0316		
Country:	Japan		
Activities/Processes:	Water manufacturing		
Contact person:	Mitsunori Iwase		
Contact email:	Mitsunori_lwase@suntory.co.jp		
Company website:	https://www.suntory.com/		
AWS Reference Number:	AWS-000374		
Type of audit:	Certification assessment by Hybrid audit (onsite and remote		
	mixed)		
Audit date(s):	20 th – 22 nd October 2021		
Audit Standard:	V2.0 Core		
Proposed date of next audit:	21 st September 2022		
Audit report completed by:	Hiroyuki Arie		
Contact email:	Hiroyuki.Arie@tuv.com		



2. Executive Summary

The scope of service covers the conformity assessment of water management and usage for Suntory Products Limited Minami Alps Hakushu Water Plant. The assessment completed in compliance with the AWS Standard Version 2.0 dated on Oct 22, 2021.

Suntory Products Limited Minami Alps Hakushu Water Plant was established in 1996 and produces a variety of mineral water under the brand of Suntory.

The whole facility occupied about 820,000 square meters, and has 146 employees. The annual production capacity is about 800,000 kL. It located at the 2913-1 Torihara, Hakushu Town, Hokuto City, Yamanashi, 408-0316. The main production process is water extraction-filtration-bottling-packing-shipping. Around the site are some small residence and farm, other is mountain. The site only uses groundwater for production and domestic. The wastewater treated in the wastewater treatment plant, and then emitted to the local river.

On Oct 20-22, TÜV Rheinland conducted the Hybrid conformity assessment for Hakushu Water Plant and activities as per requirement of the AWS Standard (Version 2.0). During the audit, the stakeholder meeting held on Oct 21 during 13:00-14:00. Two stakeholders participated the meeting, covering local government and academic sector. Total zero non-conformity and four observations were raised during the onsite audit.

Findings summary:

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

Client's response: None

Certification level: Core

After thorough evaluation of the observations, in compliance with the AWS Certification Requirement V2.0 TÜV Rheinland auditor team would recommend to reward Suntory Products Limited Minami Alps Hakushu Water Plant AWS Core Certified status. Surveillance audit should conduct on an annual basis.



3. Scope of Assessment

_	Client factories main products	Mineral water, flavour drink	
	Client factories production		
_	processes	Water extraction-filtration-bottling-packing-shipping	
		ICT pre-check on Sep 28th 2021 during 11:15-11:45 for	
	Assessment preparations	preparation on Hybrid onsite (Hiroyuki Arie) and remote (Ian	
	activities include:	Jiang) audit	
		Document review, management interview, employee	
	Assessment on-site activities	interview, onsite tour by online participation from GC (lan	
	includes:	Jiang)	
	Assessment follow-up activities		
	includes (in any):	None	



4. Description of the Catchment

The plant is located at Hakushu Town, Hokuto City, Yamanashi Prefecture. The total occupied area is about 820,000m², defined by the upstream area that contribute to the location of the site, and the downstream area influenced by the site. Hakushu catchment stretched from foot of Mt.Hinata towards north-east to Kamanashi River in length of 9km along with width of 5km, 45km² in total. The factory only use the groundwater, which is formed by the rain and snowfall of the mountain. There is no upstream water user. The factory is surrounded by some farmland of vegetables, and some small residence are located in the downstream. (*Fig1)

Discharge from plant goes into agricultural irrigation channel only and it all go onto confluence with Kamanashi River. Then it goes south-east to Fuji River and reaches to final water receiving body, Oku-Suruga Bay where 110km distance from the site.(*Fig2)

This catchment includes IWRA called "Minami Alps Natural Water Sanctuary". (*Fig3)



*Fig 1

Note: Area among violet line is the water catchment, blue mark is location of the site, green dot is discharge point to agricultural irrigation channel and red dot is the confluence. Violet line goes down to end of Hokuto City boundary where site tries to monitor water quality beyond site's catchment.





<u>*Fig 2</u>

Note: Water discharge from the site goes in agricultural irrigation channel only and it all goes onto confluence with Kamanashi River then it goes down integrated to Fuji River and it further reaches to final receiving water body Oku-Suruga Bay. Two red dots refer to location of water quality monitoring point i.e. Funayama and Oku-Suruga Bay.





<u>*Fig 3</u>

Green area is where Hokuto city, Property District Management Association, Local forest cooperative, and Suntory concluded an agreement on forest maintenance in the Minami Alps Natural Water Sanctuary since 2008. Red dot area is where Suntory signed a "Cooperation Agreement on the Promotion of Water Nurturing" with Yamanashi Prefecture since 2019.

5. Summary of the Stakeholder Interview

During the audit, auditor conducted the remote interview with two stakeholders by phone call. The details lists in the follow sheet.

Stakeholder	Stakeholder type	Summary
name		
Mr.Tatsushi	Academic Sector:	Academic measure: Water circulation system including groundwater from
Koshimizu	A Professor from	Mt.Fuji, to Mt.Yatsuga-take.
	Yamanashi	About water: Groundwater in Yamanashi is drawn through granite thus it has lots
	prefectural	of mineral components.
	university.	Pros:
		1. Site collaborates other four orgs to actively observe groundwater status.
		2. Monitoring data is disclosed and reported to stakeholders.
		3.Site does not only contribute on groundwater conservation but converts
		unvalued land into water conservation forest. Those activities contribute to
		disaster prevention which keeps granite from water flash and it makes solid land.
		Cons: None.
		Expectation: Various activities should be known more by public and that can be
		done by Hokuto City.
Mr.Youichi	Public Sector:	Work: Land, Architecture, homes, Groundwater administration.
Sueki		



Manager,	About City: Hakushu is a land of water and many people lives on this water
Construction dep.	which creates local culture and made infrastructure and important resources.
Town creation	About AWS: Recognized as global water sustainability initiative.
promotion sec.	Pros:
Hokuto City.	1.Site found groundwater conservation committee with other four orgs in year
	2000 and set monitoring wells for groundwater status. Since then it passed 20
	years and it seems maintained no big fluctuations on water level today thus it
	can be said it isn't posing any issues.
	2.Site signed agreement on protection for water and forest with Hokuto City in
	which site invested resources for that purpose.
	3.Site implements forest tour for school students to learn more about nature and
	water system in purpose of sustainability education.
	4.Site takes data on environmental indicators and groundwater status to
	disclose.
	Cons: None
	Expectation:
	1.Since Green House Gas effect increases visibly, practical reforestation and
	water security is a theme to tackle therefore such site's activity is greatly
	recognized as indispensable.
	2.City plans more development, collaboration with site is expected to create
	more value for local vitalization.



6. Summary of Shared Water Challenges

Water-related	Initiatives by related	Relevance to	Relevance to	Priority	Reason for
challenges	public institutions	stakeholders	site		prioritization
Depletion of	1.Limitation of	Domestic water	It is an	1	Sustainable use
groundwater	pumping amount	is important as	indispensable		of groundwater
resource	through agreement	agricultural	resource for		resources is in
	2.Monitoring through	water	product		the interests of
	the Yamanashi		production.		the factory and
	Prefecture				all its
	Environmental				stakeholders.
	Bureau				
The	1 Mater quality	Agricultural	There is a	2	The factory
contamination	1.vvater quality	water is	possibility that		carries out
of the	regulation of	important.	operations will		advanced
Hosotani river	wastewater through		not be		wastewater
	laws and agreements		possible due		treatment
	(pH, BOD, SS,		to		(wastewater
	coliform bacteria)		administrative		treatment
			sanctions		system), and
	2.Monitoring through		when		handles vehicle
	the Yamanashi		wastewater		oil leaks for
	Prefecture		exceeds the		rainwater
	Environmental		regulation		(rainwater
	Bureau		value.		system), which
					may pollute the
					Jingu 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 and processes reviewed are also indicated.



Documents Reviewed
Understand
Documentation or map of the site's boundaries
☑ Names and location of water sources
☑ Names and location of effluent discharge points
Other :
The map descripted the factory, the water source, and
the effluent discharge point and pipeline network.
Names and location of water sources and effluent
receiving body was defined, and the geographical
description of the catchment was clear.
Evidences:
Layout map of the plant and catchment.
List of stakeholders
☑ Water-related challenges
Current and potential degree of influence
Other :
List of stakeholders were defined, and their influence
and interest were evaluated as well.
The stakeholder identification sheet was established
Evidences: Analysis sheet of stakeholders
Stakeholder list



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 	 Site water balance (in Mm³ or m³) Water quality of the site's water source(s), provided waters, effluent and receiving water bodies, such as water test reports Other : Water incident response plans were established. Annual basis site water balance (in Mm³ or m³) 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. The list of chemicals with location were available. The water-related costs and revenues were calculated. Evidences: Emergency response plan for different scenario. Site water balance chart. 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 	 Water value calculation sheet. 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:	☑ Water governance initiatives	
1.5.1 Water governance initiatives shall be identified,	☑ Applicable water-related legal and regulatory	
including catchment plan(s), water-related public policies,	requirements	
major publicly-led initiatives under way, and relevant goals	Catchment water balance (in Mm ³ or m ³)	
to help inform site of possible opportunities for water	Documentation identifying Important Water-	
stewardship collective action	Related Areas (IWRA)	
1.5.2 Applicable water-related legal and regulatory	Other :	
requirements shall be identified, including legally-defined		
and/or stakeholder-verified customary water rights	The public water-related policies and initiatives, as well	
1.5.3 The catchment water-balance, and where applicable,	as relevant goals have been collected.	
scarcity, shall be quantified, including indication of annual,	Applicable water-related legal and regulatory	
and where appropriate, seasonal, variance	requirements was gathered and assessed once per	
1.5.4 Water quality, including physical, chemical, and	vear.	
biological status, of the catchment shall be identified, and	Popumontation identifying Important Water Polated	
where possible, quantified	Areas are Minami Alos natural water sanctuary	
1.5.5 Important Water-Related Areas shall be identified, and		
where appropriate, mapped, and their status assessed	WASH services within the catchment such as water	
including any threats to people or the natural environment,	supply rate and sewage processing rate were	
using scientific information and through stakeholder	collected.	
engagement		
1.5.6 Existing and planned water-related infrastructure shall	1.5.3 One observation was raised.	
be identified, including condition and potential exposure to	The water balance data of catchment is collected in	
extreme events	2011, it is suggest to find the updated data via	
1.5.7 The adequacy of available WASH services within the	various source.(If the precise data of the catchment	
catchment	is not available, then used the most close one like	
	water balance data of the Yamanashi prefecture)	
	Evidences:	
	Environmental laws & regulations register	
1.6 Understand current and future shared water challenges in the	List of shared water challenges	
catchment:	U Other:	
nieritized from the information gathered		
1.6.2 Initiatives to address abared water challenges	Identified share water challenges were the water	
1.0.2 Initiatives to address shared water chanenges	pollution of neighbour river and water resource	
	scarcity. The initiatives to address them were also	
	listed.	
	Evidences	
	List of shared water shallonges	
	LIST OF SHALED WALEF CHAILENGES.	



Criteria	Documents Reviewed	
1.7 Understand the site's water risks and opportunities:	☑ List of water risks facing the site	
1.7.1 Water risks faced by the site shall be identified, and	☐ List of water-related opportunities	
prioritized, including likelihood and severity of impact within	Other :	
a given timeframe, potential costs and business impact		
1.7.2 Water-related opportunities shall be identified,	List of water risks facing by the site were defined.	
including how the site may participate, assessment and	List of water-related opportunities were defined and	
prioritization of potential savings, and business opportunities	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:	Relevant catchment best practices	
1.8.1 Relevant catchment best practice for water	Other :	
governance		
1.8.2 Relevant sector and/or catchment best practice for	Suntory has identified relevant catchment best practice	
water balance (either through water efficiency or less total	for water balance, water quality, IWRA and WASH.	
water use)		
1.8.3 Relevant sector and/or catchment best practice for		
water quality, including rationale for data source	Evidences:	
1.8.4 Relevant catchment best practice for site maintenance	Best practices list and evaluation.	
of Important Water-Related Areas		
1.8.5 Relevant sector and/or catchment best practice for site		
provision of equitable and adequate WASH services		
STEP 2: Commit		



Criteria	Documents Reviewed
2.1 Commit to water stewardship:	⊠ Statement
2.1.1 A signed and publicly disclosed site statement OR	Other :
organizational document	
	Site statement "Commitment on AWS "signed by plant
	manager dated Oct. 1st, 2021. 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.
	2.1.1 One observation was raised.
	The factory posted the commitment in the site report on
	their website, but the commitment with
	management's signature is not yet publicly
	available. It is suggested to post it in the website or
	entrance of the factory.
	Evidences:
	Commitment to water stewardship
2.2 Develop and document a process to achieve and maintain	⊠Documented description of system
legal and regulatory compliance:	Other :
2.2.1 The system to maintain compliance obligations for	
water and wastewater management shall be identified	The factory has established a register to collected all
	environment-related laws and regulations, and then
	conduct the compliance check. The register will be
	updated regularly and approved by senior
	management before released.
	Evidences:
	Environmental laws and regulations registration and
	monitoring table
2.3 Create a water stewardship strategy and plan:	⊠ Water stewardship strategy
2.3.1 A water stewardship strategy shall be identified that	🛛 Water stewardship Plan
defines the overarching mission, vision, and goals of the	Other :
organization towards good water stewardship in line with	
this AWS Standard	The water stewardship strategy was identified,
2.3.2 A water stewardship plan shall be identified	including protecting the forest that nurture water,
	saving the water for production and ensure the
	quality of discharged water.
	Water stewardship plan that responding to the strategy was established as well
	Evidences: Water Stewardship strategy and plan.



Criteria	Documents Reviewed
2.4 Demonstrate the site's responsiveness and resilience to	🛛 Water risk mitigation plan
respond to water risks:	Other :
2.4.1 A plan to mitigate or adapt to identified water risks	
developed in co-ordination with relevant public-sector and	The annual plan to mitigate the identified water risk was
infrastructure agencies	established and reported to the local environmental
	bureau
	Evidences:
	Emergency Respond Plan
	Annual groundwater monitoring report
	, under ground not normorning report
STEP 3: Imple	ement
3.1 Implement plan to participate positively in catchment	Good catchment governance evidence
governance:	☑ Identified measures
3.1.1 Evidence that the site has supported good catchment	Other :
governance	
3.1.2 Measures identified to respect the water rights of	Evidence of good catchment governance was
others including Indigenous peoples, that are not part of 3.1	identified by "Event calendar and records 2020-
	2021" where continuous events were planned and
	carried out even under COVID-19 with remote
	communication. For instance, education for school
	students on water system, experience for local
	people on forest water conservation, status report
	for public officers on site's water, groundwater
	throughout year.
	Measures identified to respect water rights on other
	indigenous people by supporting water facility
	maintenance and environmental improvement
	alongside waterway.
	Evidences:
	Meeting schedule and attendant list.



Criteria	Documents Reviewed
3.2 Implement system to comply with water-related legal and	Legal and regulatory compliance verification
regulatory requirements:	process
3.2.1 A process to verify full legal and regulatory compliance	☑ Identified measures (if applicable)
3.2.2 Where water rights are part of legal and regulatory	Other :
requirements, measures identified to respect the water	
rights of others including Indigenous peoples	Process to verify full legal and regulatory compliance
	was in place and properly implemented. Among
	ninety two(92) legal requirements on whole,
	Three(3) ordinances were sampled.1.Preservation
	of Groundwater and Water Source Area of
	Yamanashi Prefecture, 2.Hokuto City Ordinance on
	Appropriate Groundwater Extraction, 3)Installation
	and modification of septic tanks.
	Water rights are regulatory requirement therefore site
	participated in Hokuto City Hakushu Town
	Groundwater Conservation and Utilization Council
	where replacement of water level gauges for
	monitoring of groundwater in Hakushu Town and
	renewal of groundwater observation wells was in
	midterm plan.
	Evidences:
	Environmental Regulations Registration Book and
	monitoring table



Criteria	Documents Reviewed	
3.3 Implement plan to achieve site water balance targets:	Status of progress	
3.3.1 Status of progress towards meeting water balance	☑ Water use efficiency annual target (if applicable)	
targets set in the water stewardship plan	Legally-binding documentation (if applicable)	
3.3.2 Where water scarcity is a shared water challenge,	Other :	
annual targets to improve the site's water use efficiency, or		
if practical and applicable, reduce volumetric total use shall	Water balance targets in 2020 was achieved along	
be implemented	with reduction per unit. Site achieved reduction per	
3.3.3 Legally-binding documentation, if applicable, for the	unit of 1.669 in favour of efficiency. Target is usually	
re-allocation of water to social, cultural or environmental	submitted to management in Q4 of year and	
needs	announced officially at beginning of following year.	
	It includes technical challenge for achieving	
	reduction of consumption.	
	 Since water scarcity was a shared water challenge, annual targets to improve the site's water use efficiency was implemented by reducing the unit requirement. Site achieved reduction per unit of 1.67 in 2020 from 1.73 in 2019 by 3%. Reduction of water intensity is set 15% by 2030 compared to 2015 at corporate group target which needs technical innovation for achieving it. Legally-binding documentation "Hokuto City Ordinance on Appropriate Groundwater Extraction" was identified. It's applicable to site not to dig within 250m of the well. Site observes this ordinance. Reallocation of water is not applicable. 	
	Evidences	
	1)Water consumption data from 2011 to 2021	
	2)Hokuto City Ordinance on Appropriate Groundwater	
	Collection #229 issued Nov 1st 2004	
	·	



Criteria	Documents Reviewed	
3.4 Maintain or improve site water quality:	⊠ Status of progress	
3.4.1 Status of progress towards meeting water quality	Site's effluent best practice (if applicable)	
targets set in the water stewardship plan	Other :	
3.4.2 Where water quality is a shared water challenge,		
continual improvement to achieve best practice for the site's	Water quality targets in 2020 was achieved. Judged by	
effluent shall be identified and where applicable, quantified	turbidity, composition, sensory, impurities, soil	
	offsite contamination risks. Site samples water	
	source, washing water, water from products and	
	discharge water by water quality measurement	
	service provider every month including VOC	
	Trihalomethane quarterly.	
	Water quality is well controlled and not nose a	
	challenge, therefore site keeps ongoing status	
	challenge, merelore sile keeps ongoing status.	
	Evidences:	
	Water testing report.	
3.5 Implement plan to maintain or improve the site's and/or	Practices set in the water stewardship plan	
catchments IWRAs:	Other :	
3.5.1 Practices set in the water stewardship plan to maintain	N.A.	
and/or enhance the site's IWRAs shall be implemented	There is no IWRA identified on site.	
	Evidences:	
	N.A.	



Criteria	Documents Reviewed	
3.6 Implement plan to provide access to WASH:	Evidence of site's provisions of WASH	
3.6.1 Evidence of the site's provision of adequate access to	Evidence of site operations not affecting water	
safe drinking water, effective sanitation, and protective	rights of surrounding environment	
hygiene (WASH) for all workers onsite shall be identified	Other :	
and where applicable, quantified		
3.6.2 Evidence that the site is not impinging on the human	Evidence of the site's provision of adequate access to	
right to safe water and sanitation of communities through	safe drinking water, effective sanitation, and	
their operations, and that traditional access rights for	protective hygiene (WASH) for all workers onsite	
indigenous and local communities are being respected, and	was identified and quantified. Site checks water	
that remedial actions are in place where this is not the case,	quality and sanitary condition in work place every	
and that these are effective	day and regularly outsourced drinking water quality	
	check water quality measurement service provider.	
	The site had once muddy drinking water case	
	where it caused by degradation of activated carbon	
	filter. Filter was replaced and those utility	
	management was reviewed to have improved.	
	Evidence that the site is not impinging on the human	
	right to safe water and sanitation of communities	
	and that traditional access rights for indigenous and	
	local communities are being respected was	
	identified. Discharge as output, groundwater level,	
	has not changed significantly while the precipitation	
	as inputs have not changed significantly over 40	
	years. It's considered that business has been	
	conducted in a sustainable manner with no impact	
	on the local community. In short term, site had plant	
	tour 14 times in 2019 with 517 people took part in	
	and other local community communication	
	confirmed thru event records where site picked up	
	voices, requests and feedbacks to improve site	
	operation while it skipped in 2020 and 2021 under	
	COVID-19.	
	Evidences:	
	WASH summary report.	



Criteria	Documents Reviewed	
3.7 Implement plan to maintain or improve indirect water use	☑ List of suppliers and service providers	
within the catchment:	Evidence of engagement with suppliers and	
3.7.1 List of suppliers and service providers, along with the	service providers	
actions they have taken as a result of the site's engagement	Other :	
relating to indirect water use		
3.7.2 Evidence of engagement with suppliers and service	Indirect water use targets in catchment was identified	
providers, as well as, when applicable, actions they have	as little as negligible for practical use therefore no	
taken in the catchment as a result of the site's engagement	amount was quantified.	
related to indirect water use, shall be identified		
	Supplier and service provider was identified as being	
	out of catchment therefore no engagement related	
	to indirect water use was carried out.	
	Evidences:	
	Supplier evaluation form.	
3.8 Notify the owners of shared water-related infrastructure of any	Evidence of engagement	
concerns:	Other :	
4.8.1 Evidence of engagement, and the key messages		
relayed with confirmation of receipt	Evidence of engagement, and the key messages	
	relayed with confirmation of receipt was identified.	
	Co-owner on the site was a distilled plant who the	
	water plant held monthly meeting to engage topics	
	ex. Groundwater, water facility, water discharge,	
	water quality and water conservation.	
	Evidences:	
	Communication report.	



Criteria	Documents Reviewed	
3.9 Implement actions to achieve best practice towards AWS	Actions related to water governance	
outcomes:	Actions related to water balance	
3.9.1 Actions towards achieving best practice, related to	Actions related to water quality	
water governance	Actions related to IWRAs	
3.9.2 Actions towards achieving best practice, related to	Actions related to WASH	
targets in terms of water balance	Other :	
3.9.3 Actions towards achieving best practice, related to		
targets in terms of water quality	Actions towards achieving best practice has been	
3.9.4 Actions towards achieving best practice, related to	searched and implemented 7 cases among	
targets in terms of the site's maintenance of IWRAs	identified 30 cases and further search is needed on	
3.9.5 Actions towards achieving best practice, related to	11 cases however, no water governance related	
targets in terms of WASH	higher level of practice was identified.	
	Actions towards achieving best practice has been searched and identified one referral level of water balance method. Site implemented wastewater utilization, reuse, and water cascade.	
	Actions towards achieving best practice has been searched and identified one referral level of water quality method. Site implemented wastewater utilization, reuse, and water cascade though, that referral was reuse of wastewater. This further development was in charge of distilled plant as Co- owner onsite.	
	Actions towards achieving best practice has been searched and no higher level of practice of IWRA maintenance was identified.	
	Actions towards achieving best practice has been searched and one case identified. Hokuto City's water supply penetration rate was 97% and domestic wastewater clean treatment rate was 97.7% by formula (sanitation treatment population/total population). Site also has collected a performance distribution of water source units in the BIER beverage sector, SBTN, used as a reference for setting company-wide water conservation targets.	
	Evidences: Actions list.	



Criteria	Documents Reviewed	
STEP 4: Eval	uate	



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 were evaluated. 1Groundwater recharge plan was achieved in qualitative manner. 1-1) Groundwater recharge function enhancement was done by surveying the recovery of vegetation in the Hokugino-daira collapsed area in the Hokuto City (180 ha), and the vegetation around Kotaki in the upper reaches of the Jingu River • 1-2)Biodiversity enhancement was done by vegetation survey along the Mt. Amagatake trail route and the Mt. Hinata route in the prefectural forests to investigate the effects of feeding damage by Japanese deer and also nesting of hawks was confirmed in the upper reaches of the Jingu River.1-3)Estimation method of groundwater recharge rate by GETFLOWS has already been established. 2. Water conservation plan was achieved by reduced water intensity from 1.745 in 2015 to 1.669 in 2020 by promoting water conservation activities. 3. Effluent water management was achieved by water quality control in which was within standard value and also in the target set value of the plant. It contributed to maintain good water quality after the Kamanashi River and reduce the water risk of the effluent.

Value creation resulting from the water stewardship plan was evaluated. Value was created by
1.Improvement of water source recharge function of the Natural Water Forest Minami Alps. i.e.
Groundwater recharge amount: 40,724,457m³
(Total area x Groundwater recharge amount (*))
2.Development of forest Groundwater recharge rate per hectare was 20,091m³/year. (Guidelines for groundwater recharge in Yamanashi Prefecture)
The shared value benefits in the catchment were identified in qualitative manner as 1.Biodiversity



Criteria	Documents Reviewed
	 improvement. 2. Preservation of the public interest value of forests. 4.1.1 One observation was raised. Evaluation process addresses aspect of result oriented only. It's suggested to also address opportunity of improvement. Evidences: Performance review.
 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 : A written annual review was identified. Site reviewed and concluded there was no emergency incident in the year however, prepared and carried out a training for possible emergency incident. Site identified chemical spill are critical so that a training related to Chemical Spill Response Standard and Environmental Trouble Response Contact Method was carried out. Chemicals in scope were Caustic Soda, Nitric Acid and Sulphuric Acid.
	Evidences: Emergency drill record on Apr 30 th . 2020



Criteria	Documents Reviewed	
4.3 Evaluate the stakeholders' consultation feedback:	Stakeholder feedback	
4.3.1 Consultation efforts with stakeholders on the site's	Other :	
water stewardship performance shall be identified		
	Consultation effort on the site's stewardship	
	performance was identified. Case1, Tatsushi	
	Koshimizu, Specially Appointed Professor,	
	Yamanashi Prefectural University worked with site	
	for mainly monitoring, analyzing and developing	
	water recharge function among broad research of	
	Geology and Hydrology. He concluded in statement	
	as of Oct 5, 2021 saying that the site understands	
	the importance of ongoing efforts to conserve water	
	resources and puts them into practice. We look	
	forward to its continued efforts to protect the	
	region's water resources. Case2, Yoichi Sueki,	
	Hokuto City Office, Construction Department,	
	Community Development Promotion Section,	
	worked with site on variety of initiatives with the	
	participation of citizens, such as holding intensive	
	on-site water education classes at Hokuto City	
	elementary schools, social studies tours (digitalized	
	factory tours) at city elementary, junior high, and	
	senior high schools, the establishment of an	
	environmental web course for adults, and human	
	resource development aimed at realizing	
	Eco Dark concert. Then concluded with statement	
	as of Sen 9th, 2021 saving that collaboration with	
	site contribute to the development of Hokuto City	
	and we have high expectations for Suntory to	
	further enhance environmental conservation and	
	environmental education in the future.	
	Evidences:	
	Written comments by Tatsushi Koshimizu, Specially	
	Appointed Professor, Yamanashi Prefectural University	
	dated Oct 5 th , 2021	
	Written comments by Yoichi Sueki, Hokuto City Office	
	dated on Oct 13 th , 2021	



Criteria	Documents Reviewed	
4.4 Evaluate and updated the site's water stewardship plan:	Modification of water stewardship plan	
4.4.1 The site's water stewardship plan shall be modified	Other : Evidence below	
and adapted to incorporate any relevant information and	It's complied. Since this is Certification audit, site was	
lessons learned from the evaluations in this step and these	aware to prepare a plan for next year reflecting	
changes shall be identified	relevant information and lessons learned from the	
	evaluations in this step and these changes.	
	Evidences:	
	Water Stewardship Plan	
STEP 5: Communication	and Disclosure	
5.1 Disclose water-related internal governance of the site's	Summary of governance	
management:		
5.1.1 The site's water-related internal governance, including	The site's water related internal governance was	
positions of those accountable for compliance with water-	disclosed in Suntory website where two (2)	
related laws and regulations shall be disclosed	organizational org chart showed 1.environmental	
	conservation org, 2.water resource org. Mr. Shigeo	
	Masuda, the plant manager and environmental	
	governance manager was accountable for	
	compliance with water-related laws and	
	regulations.	
	Evidences	
5.2 Communicate the water stewardship plan with relevant	☑ Documented evidence of communicating	
	Other :	
5.2.1 The water stewardship plan, including how the water		
stewardship plan contributes to AWS Standard outcomes,	The factory reported the water stewardship plan with	
shall be communicated to relevant stateholders	stakeholders, and obtained the feedback from	
	Yamanashi prefecture.	
	F. idences	
	I he teedback from Yamanashi prefecture.	
	Company Website	



Criteria	Documents Reviewed	
5.3 Disclose annual site water stewardship summary:	☑ Water stewardship performance summary	
5.3.1 A summary of the site's water stewardship	☐ Other :	
performance, including quantified performance against	The site's water stewardship performance in 2020 was	
targets, shall be disclosed annually at a minimum	disclosed in website. It showed performance against target.	
	5.3.1 One observation was raised.	
	Currently, the disclose information is separated in	
	different area of company's website. It is suggest to	
	combine all information in one document, and then	
	disclose on the website annually.	
	Evidences:	
	Company Website	
5.4 Disclose efforts to collectively address shared water	Disclosure evidence	
challenges:	Other :	
5.4.1 The site's shared water-related challenges and efforts		
made to address these challenges shall be disclosed	The site's water-related challenge and efforts made by	
5.4.2 Efforts made by the site to engage stakeholders and	the site was disclosed.	
coordinate and support public-sector agencies shall be		
identified	Evidences:	
	Company Website	
5.5 Communicate transparency in water-related compliance:	List of water-related compliance violations with	
5.5.1 Any site water-related compliance violations and	corresponding corrective actions	
associated corrections shall be disclosed	☐ Other :	
5.5.2 Necessary corrective actions taken by the site to	The company's compliance record was reviewed.	
prevent future occurrences shall be disclosed if applicable	There has been no violation since the site	
5.5.3 Any site water-related violation that may pose	commenced operations.	
significant risk and threat to human or ecosystem health		
shall be immediately communicated to relevant public	Evidences:	
agencies and disclosed	Company Website	



Assessment Non-conformities:

Major or Minor non-conformities:

None

Observations:

Four observations were posed.

No	Process/Dept.	Issue
1	1.5.3	The water balance data of catchment is collected in 2011, it is suggest
		to find the updated data via various source.(If the precise data of the
		catchment is not available, then used the most close one like water
		balance data of the Yamanashi prefecture)
2	2.1.1	The factory posted the commitment in the site report on their website,
		but the commitment with management's signature is not yet publicly
		available. It is suggest to post it in the website or entrance of the
		factory.
3	4.1.1	Evaluation process addresses aspect of result oriented only. It's
		suggested to also address opportunity of improvement.
4	5.3.1	Currently, the disclose information is separated in different area of
		company's website. It is suggest to combine all information in one
		document, and then disclose on the website annually.



8. Summary and Conclusion of the Assessment

In assessment of the water stewardship performance of the Suntory Products Limited Minami Alps Hakushu Water Plant, it is apparent that the sites put considerable effort to adopt the AWS standard into the management system. In the end, no non-conformity was raised.

No non-conformity were identified in this audit. Four observation was posed for site's consideration on opportunity of improvement. Auditors pointed out the areas that to be considered for improvement in the following implementation, however, no action is demanded during the audit cycle. In conclusion, the Suntory Products Limited Minami Alps Hakushu Water Plant met the AWS standard Version 2.0- Core Level.

9. Appendix

None