Alliance for Water Stewardship Assessment Report for single site certification

Prepared for PHILIP MORRIS MTB

SITE: PHILIP MORRIS MANUFACTURING & TECHNOLOGY BOLOGNA, S.p.A. in Crespellano, Valsamoggia BO, Italy.

AWS REFERENCE: AWS-010-INT-CAB-00-03-00017-0093

Prepared by: SGS

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REPORT DETAILS

REFERENCE	02-958-262917
CLIENT REFERENCE	Chiara Rizzi (EHS Engineer)
REPORT TITLE	**ALLIANCE FOR WATER STEWARDSHIP ASSESSMENT REPORT**
DATE SUBMITTED:	3 July 2019
CLIENT:	Philip Morris MTB (Philip Morris Manufacturing & Technology Bologna S.p.A.) Via Giacomo Venturi, 1/2 40056 Crespellano, Valsamoggia BO Italy Chiara.Rizzi@pmi.com www.pmi.com
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STATUS	FINAL
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1 EXECUTIVE SUMMARY

The scope of services covers the conformity assessment of water use in compliance with the AWS International Water Stewardship Standard Version 1 for PHILIP MORRIS MTB (Philip Morris Manufacturing & Technology Bologna S.p.A.) in Crespellano, Valsamoggia BO, Italy. The assessment has been completed in compliance with AWS Certification requirements, Version 1 dated July 2015.

Philip Morris International is a company that manufactures tobacco related products, with 77,000 employees. It has operations world-wide, and they established PHILIP MORRIS MTB (Philip Morris Manufacturing & Technology Bologna S.p.A.) located in Via Giacomo Venturi, 1/2, in Crespellano, Valsamoggia BO, in Italy.

A data gap analisys for AWS took place during 5th and 6th June in PHILIP MORRIS MTB, during which 9 issues were raised during the course of this analisis process. PHILIP MORRIS MTB responded to the issues raised between these date and the audit date. The audit was held during 19th and 20th June.

Given the document review undertaken, verification of evidence and site visit inspections performed, SGS recommends that PHILIP MORRIS MTB (Philip Morris Manufacturing & Technology Bologna S.p.A.) is awarded AWS Core Certified status with a surveillance audit interval of annual frequency.

During the course of the audit process, one observation and one opportunity of improvement were raised, so the certification could be granted. The actions taken will be followed-up at the first annual surveillance visit.

2 SCOPE OF ASSESSMENT

The scope of services covers the conformity assessment of water use in compliance with the AWS International Water Stewardship Standard Version 1 for PHILIP MORRIS MTB (Philip Morris Manufacturing & Technology Bologna S.p.A.) in Crespellano, Valsamoggia BO, in Italy. The assessment has been completed in compliance with AWS Certification requirements, Version 1 dated July 2015.

From June 5th to 6th, 2019, SGS conducted a previous analisys of data gaps with regard to certification to the AWS Standard. During the course of this analisys process 9 issues were raised. PHILIP MORRIS MTB responded to these issues between these dates and the audit date (19th and 20th of June, 2019)

During 19th to 20th of June, 2019, SGS conducted the conformity assessment of the site's facilities and activities with regard to certification to the AWS Standard. Table 2.1 includes details of SGS audit team. The audit plan is attached as a separate document.

Table 2.1 SGS Audit Team

Audit Team	Qualifications/Experience	
Jerónimo Casas	Lead Auditor	AWS certified auditor, with more than 19 years experience in pollution control, environmental impact assessment, ISO14001 audit and training.
Paula Gómez Geras	Auditor	AWS certified auditor, with more than 12 years experience in pollution control, ISO14001 audit and training.
Michela Longo	Local expert	14001 Lead Auditor for 4 years, experience in environmental audit referring in particular to waste management and treatment plants
Francesca Cerchia	Certifier	Over 20 years experience in environmental markets and auditing. AWS certified auditor and AWS accreditation manager.

The site was represented at the audit by:

C. Rizzi, Environmental Sustainability Engineer

M. Magagni, EHS Manager

M. Iannacci, EHS

A. Alberton, IFMS

A. Bruno,Project Engineering

G. Barraco, Primary Process.

E. Altruda, Internal Comunications

G. Pallotta. External Affairs.

E. Capponi, HPC Project Manager

B. Bizzaro, HPC Consultant

M. Salvatori, Politécnica Consultant

I. Romao, PMI Engineering.

C. Sanchez, Manager Environment

C. Berardi, Head of Environmental Sustainability

SGS provided feed back on 9 issues raised during the data gap analisys process.

All these issues were solved before the closing meeting of the audit process on 20th of June 2019 at Philip Morris MTB

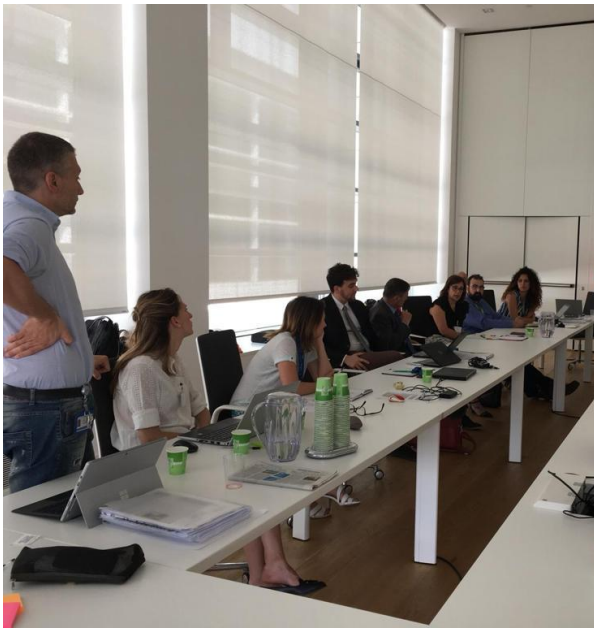
The 2 days on-site audit covered documentary review, inspection of the installations and activities in the plant and personnel interviews. The audit was held at PHILIP MORRIS MTB over two days, and part of that days were used for a full factory walkthough and stakeholders meetings .

Figure 2.1: Diagram of the PHILIP MORRIS MTB factory in Crespellano *(confidential Information)*

Table 2.1 Photos from PHILIP MORRIS MTB audit

Primary plant

Water treatment plant



Stakeholders meeting

Outlet water (point of discharge)

Secondary Plant

Inlet water point

3 STAKEHOLDERS' ANNOUNCEMENT AND CONSULTATION

The local stakeholder announcement was published at local level. To ensure interest parties provided feedback on the AWS process and awareness was raised on the importance of collective actions for water governance.

The assistants are showed in the table below.

Table 3.1. AWS stakeholder engagement meeting @ PM MTB Bologna on 19/6/2019

Stakeholder name		Private	Public	Business
1	Simic S.p.A	x		IFMS contractor at PMI level (maintenance / utilities)
2	Suez S.p.A.	x		WWT contractor for MTB (conduction / maintenance)
3	Confindustria	x		Association of Industries in Italy
4	Granarolo S.p.A.	x		Food company (Cheese, Yogurt, Milk, ecc.)
5	Comune di Valsamoggia		x	Authority (Comune level)
				Authority (Comune level)
6	Hera	x		Water supplier and reciever on public sewage
7	ARPAE		x	Environmental Authority (Region level)

This meeting was published in differents media:

- twitter
- facebook
- local newspaper
- web site

STAKEHOLDER PHOTO

4 DESCRIPTION OF CATCHMENT

Regarding the site´s water source, MTB recieves water from a primary aqueduct system (Acquedotto Primario di Bologna) managed by HERA S.p.A (here foward HERA), a local water service provider responsable for providing potable water to MTB.

The Acquedotto Primario di Bologna draws water from superficial and deep water sources but not from spring sources.

The groundwater is drawn from active wells found at depths between 200 - 450 m at the following plants:

- Tiro a Segno
- San Vitale
- Borgo Panigale
- Fossolo
- Mirandola

The surfacewater is drawn from the Reno and Setta River. The Val di Setta plant, located at the confluence of these two rivers, is responsible for the catchment and treatment of the collected water.

Information about the site´s water sources is available in different documents.

Regarding the catchment, MTB does not draw directly from water wells/surface water/springs but relies on HERA's water withdrawal points.

MTB receives water exclusively from the Acquedotto Primario di Bologna managed by HERA as was mentioned before.

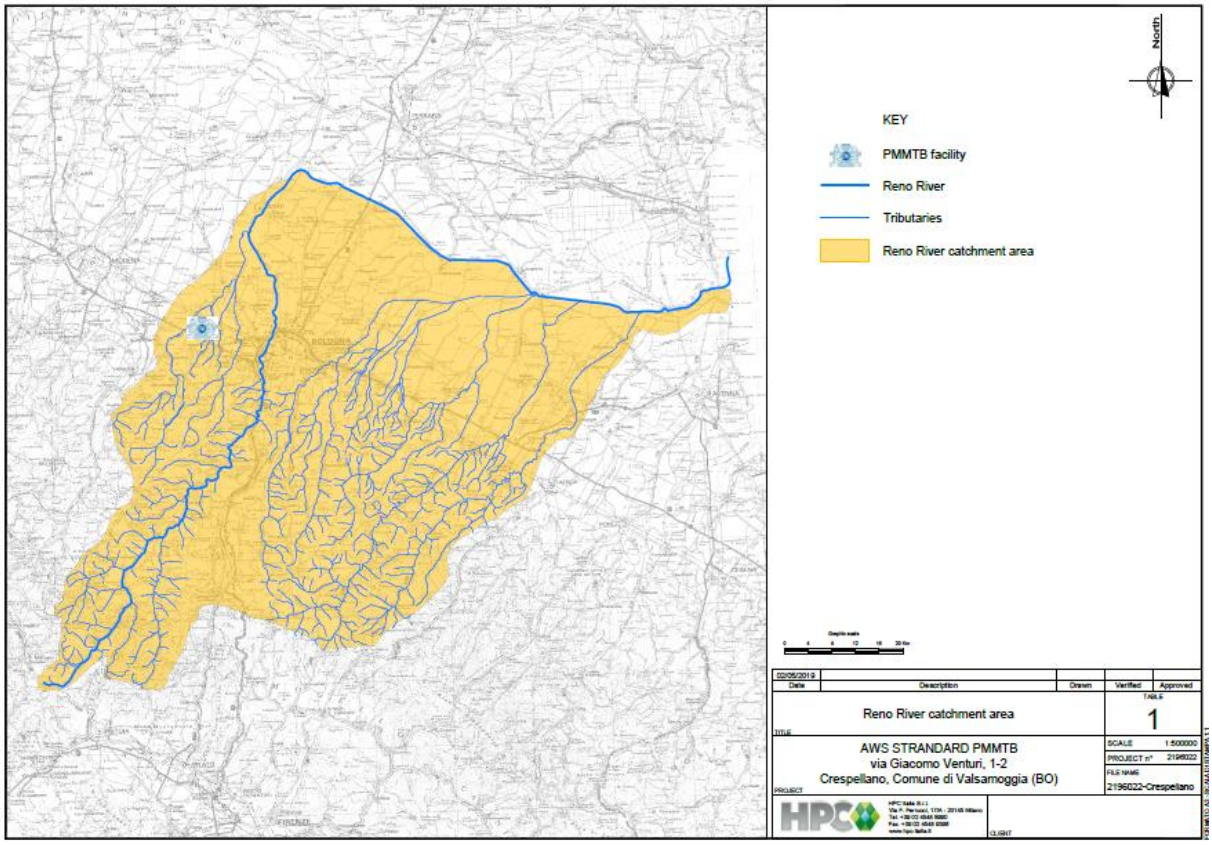
The Acquedotto Primario di Bologna draws water from 2 Rivers (Reno and Setta River) and 5 water well clusters which extract water from 3 aquifers:

1. Conoide del Reno, from which well plants San Vitale di Reno, Tiro a Segno and Borgo Panigale extract water
2. Conoide del Savenna, from which well plant Fossolo extracts water
3. Conoide dell'Idice, from which well plant Mirandola extracts water

The catchment will consequently be defined as the area containing HERA's water withdrawal bodies: the 3 aquifer bodies and the river's watersheds, as well as their up and down-stream areas of influence.

The Reno River's watershed (approximately 6,000 km2) extends over most of the Emilia-Romagna region as illustrated in Figure 4.1.

Figure 4.1. Reno River Catchment Area



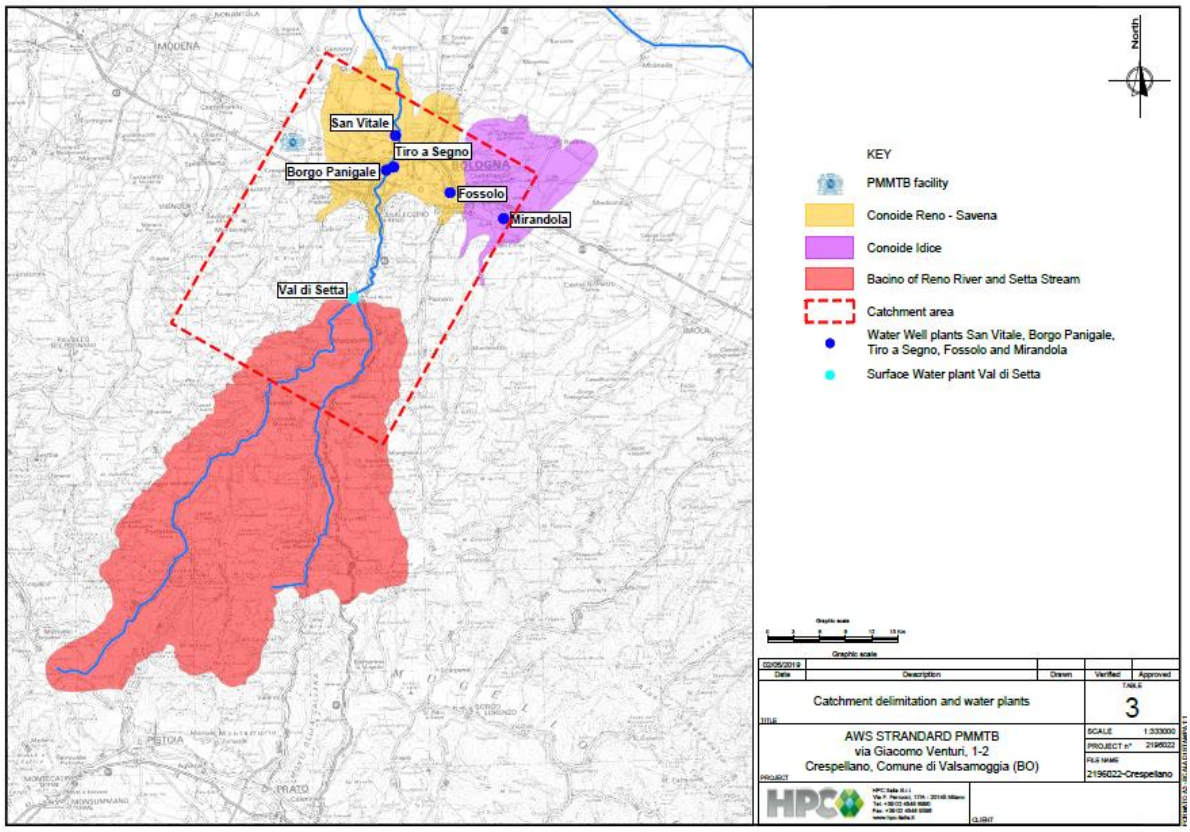
The Site's catchment area, considering its influence up and down-stream, results as having an extension of 1,000 km^2, limit set by the Standard. This is illustrated in Figure 4.2. where the:

- aquifers Conoide Reno-Savenna are in yellow

- acquifer Conoide dell'Idice is in purple

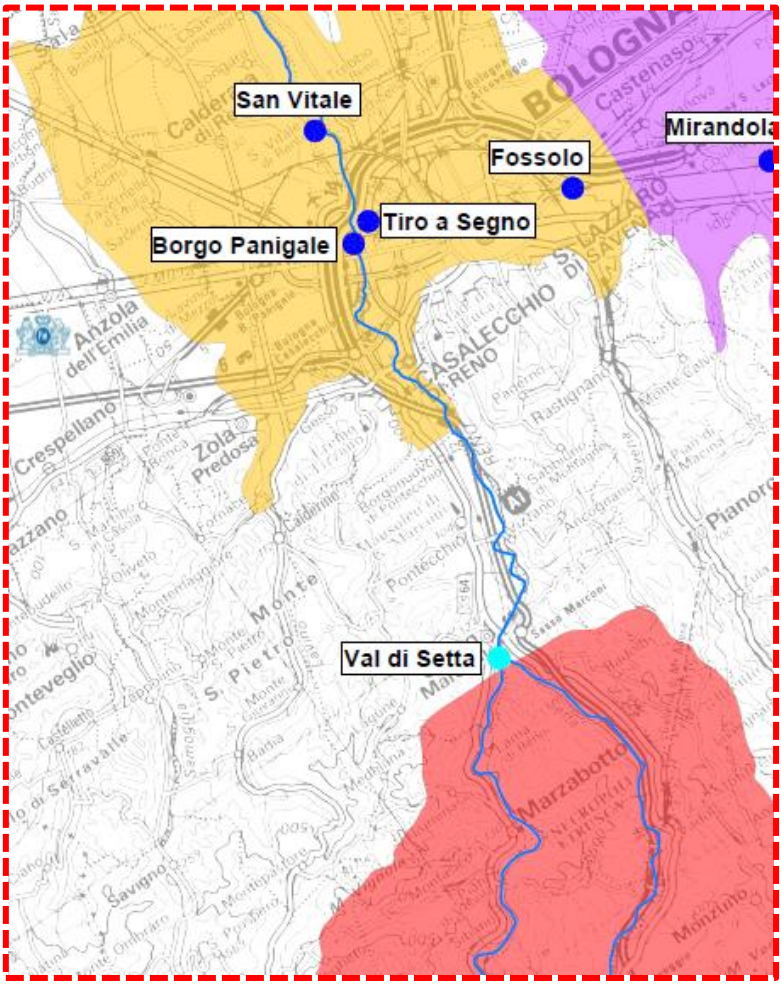
- River Reno and Setta's watershed is in red

Figure 4.2: Diagram of the Site´s catchment area



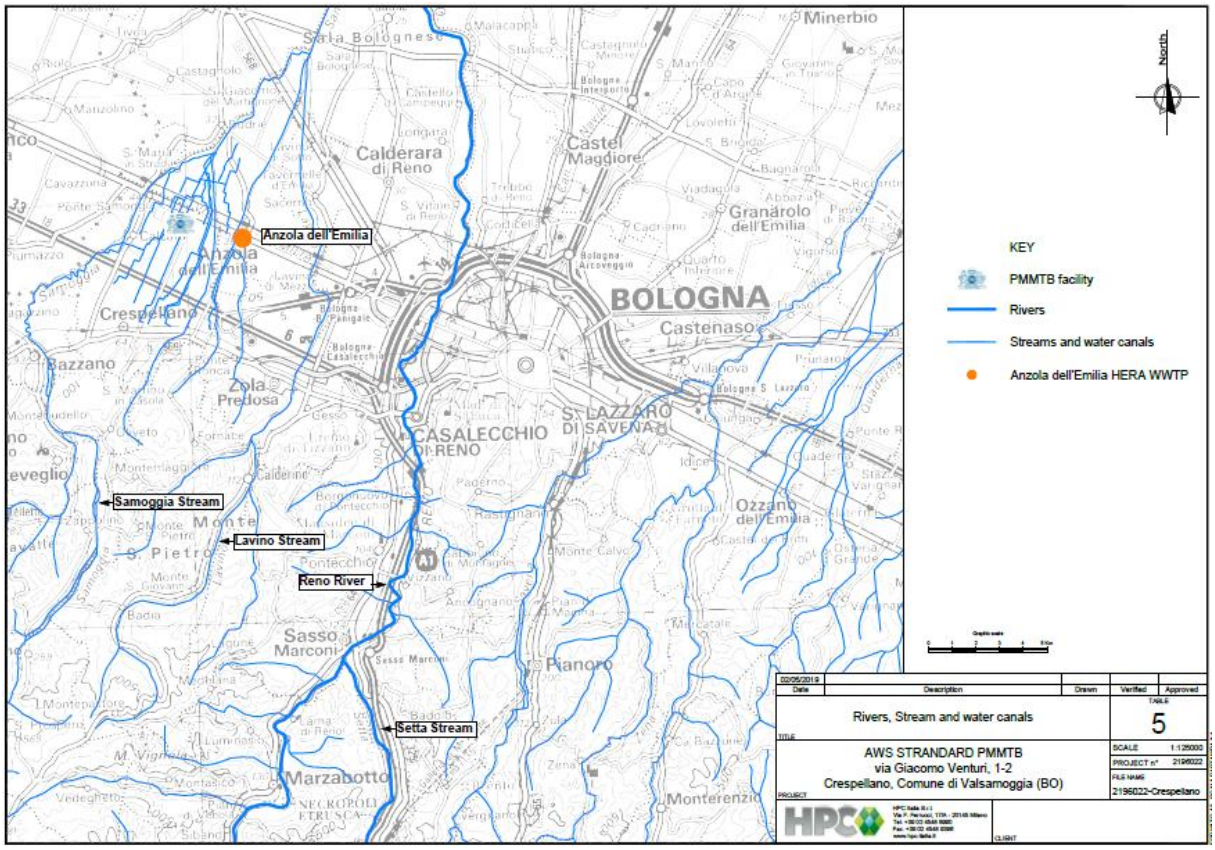
As specified by the AWS Standard, a typical AWS catchment area should be around 250 - 1,000 km2. For this reason, the Site's catchment area has been identified, in more detail, as an area covering a territory of approximately 1,000 km2. This is illustrated in in Figure 4.3.

Figure 4.3. Detail of Site's catchment area



The stream, river and water canal network surrounding MTB is delimitated in Figure 4.4. which also shows the collocation of HERA's WWTP at Anzola dell'Emilia.

Figure 4.4. River, stream and water canals surrounding PHILIP MORRIS MTB.

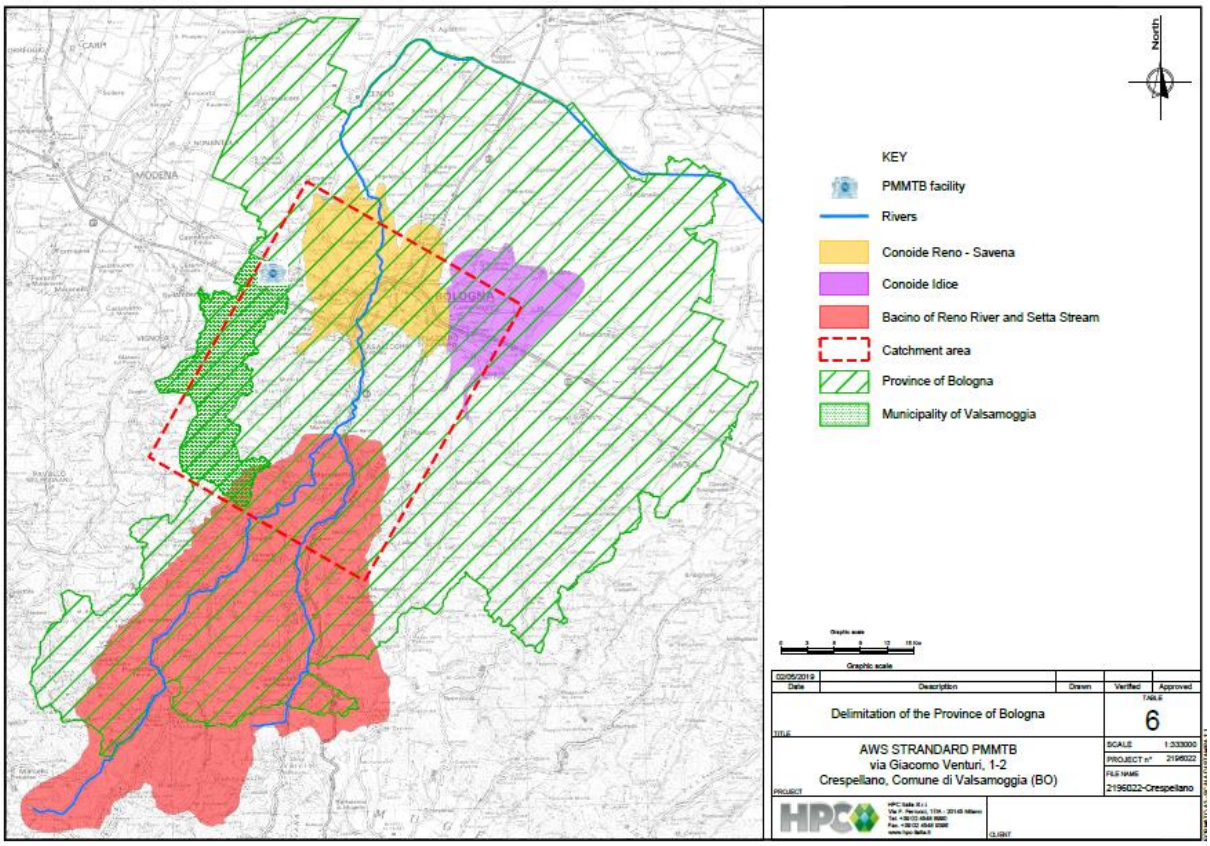


The documents which described the catchment are the following:

- Att.2.3.a. River basin management plan of Torrente Samoggia
- Att.2.3.b. River basin management plan of Reno River

The catchment water balance has been analysed considering the Provincial territory of Bologna which encompasses the catchment area territory (Figure 4.5.). The Provincial territory of Bologna includes the Municipality of Valsamoggia.

Figure 4.5: Provincial territory of Bologna which encompasses the Catchment Area territory



5 SUMMARY OF SHARED WATER CHALLENGES

PHILIP MORRIS MTB has developed a list of the main challenges shared with the most important stakeholders in the basin with regards to water. To do so, they have established an order of priority ranging (High – Moderate – Low) , justifying with reviews the reasons for the assigned priority and the reasons for what are considered to be of importance regarding the impact/oportunities and potencial savings / value creation

The stakeholders identified are:

- Consorzio della Bonifica Renana
- HERA
- SUEZ
- SIMIC
- ARPAE/Regione Emilia Romagna
- Municipality of Valsamoggia
- Granarolo
- Amarene Fabbri
- Policlinico San'Orsola Malipighi
- Iperceramica Bologna
- Fiera di Bologna
- Aeroporto G. Marconi di Bologna
- Industrial Complex Bologna
- Società Cooperativa Agricola Bazzanese
- Cartiera Burgo di Mantova
- Cantina Valsamoggia
- Terme San Luca
- Silla Carni S.r.l
- Dino Corsini S.r.l
- CIR Food
- Confindustria
- Clients/Customers
- Legambiente
- Majani
- Autorità del Bacino del Reno
- Manifattura Birre Bologna
- Caseificio Olmi e Centomo

- DUSSMANN
- Municipality of Anzola/Zola Predosa

The main issues the basin is facing with regards to a shared and sustainable management of the water resources, are summarised as follows:

a) Baseline water stress
b) Water depletion and water quantity limitations
c) Drough occurrence and predicted increase in the future
d) Waste water discharge and contamination
e) Flood occurance

A more detailed presentation of shared water challenges identified by PHILIP MORRIS MTB has been presented in Table 5.1 below. The information in the table below has been extracted from document “Att.3.2.a. Water stewardship strategy and plan.pdf”

Table 5.1.Detailed Shared Water Challenges for PHILIP MORRIS MTB

Challenges/Risks	Goal	Strategy
Baseline water stress	Reduce potable water consumption on-site	Water reduction tecnologies
Water depletion and water quantity limitations		Recycle and/or reuse water and wastewater
Drough occurrence and predicted increase in the future	Increase potable water use efficiency on-site	Implementation of water plant saving settings
	Raise awareness of water stressed catchment area and on-site water-related risks	Comunicate and engage in collaborations, awareness campaigns, meetings and activities with authorities, stakeholders, employees and relevant parties
Waste water discharge and contamination	Reduce the amount of industrial wastewater discharge	Recycle and/or reuse wastewater
	Avoid contamination or environmental impacts	Legionella analysis
		Periodic and accurate maintenance of piping, storage tanks and waste water treatment plant (WWTP)
		Water monitoring and quality control strategy

6 INDICATORS CHECKLIST

As per the requirement set out in the AWS certification requirements Section 2.11.3.1 below is a checklist of all the CORE AWS indicators with the relevant reviewed evidence provided by PHILIP MORRIS MTB and the indicator with which it is associated.

Table 6.1 Evidence reviewed by SGS against each CORE AWS indicator

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
1		Leadership (core)			
1.1	2.1.1	Leadership commitment on water stewardship			
1.1.1		**Has the organisation signed and published a statement related to his water stewardship commitment that includes all of the elements listed in core criteria 1.1?**	☒	☐	MTB AWS Commitment in revision number 1.0 (revision date 10.10.2018) describes their Water Stewardship Commitment and includes the listed elements in core criteria. This Water Stewardship Commitment is signed by the Director Manufacturing Oleksiy Lomeyko. This document is available in the EHS Portal, which is accessible to all MTB employees (Att.1.1.c). The MTB AWS Commitment will be publicaly disclosed after the obtainment of AWS certification.
1.2.1		**Has the organisation elaborated, agreed upon and discloses a water stewardship policy?**	☒	☐	PMI Environmental Policy: An internally agreed-upon environmental commitment statement with specific reference to stewardship requirements. The public policy can be found at the following PMI site Document Reference (Att.1.2.a.) MTB has made a video which is played in the factory screens. Document Reference Att.1.2.b. Documents Att.6.5.a,6.5.b & 6.5.c for public PMI global AWS commitment.
1		Leadership (advanced)			Evidence and Scoring
1.3		**Has the organisation initiated any action to further the AWS? (3 points per action)**	☒	☐	MTB were just not applied in this case, but the site could apply it in future
1.4		**Has the organisation committed to other initiatives that advance water stewardship? (3 points)**	☒	☐	MTB were just not applied in this case, but the site could apply it in future
1.5		**Is there a water stewardship commitment from**	☒	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		the most senior executive of the organisation? (1 point)			
1.6		**Is there a commitment to assist with community water needs in time of stress? (8 points)**	☒	☐	MTB were just not applied in this case, but the site could apply it in future
2		Water challenges (core)			Comments/Evidence
2.1.1	**1.1.1**	**Site boundaries (map)**	☒	☐	The general overview map showing the Site boundaries as well as the points of withdrawl and discharge is in place are described in the document Att.2.1.a. MTB site boundaries
2.1.2		**Name and location of sources of water (immediate and ultimate)**	☒	☐	MTB recieves water from a primary aqueduct system (Acquedotto Primario di Bologna) managed by HERA S.p.A (here foward HERA), a local water service provider responsable for providing potable water to MTB. According to information provided by HERA, the Acquedotto Primario di Bologna draws water from superficial and deep water sources but not from spring sources. The groundwater is drawn from active wells found at depths between 200 - 450 m at the following plants: - Tiro a Segno - San Vitale - Borgo Panigale - Fossolo - Mirandola The surface water is drawn from the Reno and Setta River. The Val di Setta plant, located at the confluence of these two rivers, is responsible for the catchment and treatment of the collected water. A copy of the Q&A exchanged between MTB and HERA in November 2018, February and March 2019 are available MTB has a Water treatment plant previous to the use into the process.
2.1.3		**Name and location of effluent discharges**	☒	☐	Domestic and industrial waste water are discharged in public sewage system; Industrial

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					waste water are treated in WWTP before the discharge in public sewage system.tion
2.1.4		**Description or map of catchment (s)**	☒	☐	The Acquedotto Primario di Bologna draws water from 2 Rivers (Reno and Setta River) and 5 water well clusters which extract water from 3 aquifers: 1. Conoide del Reno, from which well plants San Vitale di Reno, Tiro a Segno and Borgo Panigale extract water 2. Conoide del Savenna, from which well plant Fossolo extracts water 3. Conoide dell'Idice, from which well plant Mirandola extracts water The catchment will consequently be defined as the area containing HERA's water withdrawal bodies: the 3 aquifer bodies and the river's watersheds, as well as their up and down-stream areas of influence. The Reno River's watershed (approximately 6,000 km2) extends over most of the Emilia-Romagna region as illustrated in Att.2.1.h. The Site's catchment area, considering its influence up and down-stream, results as having an extremely broad extension, well above the 1,000 km2 limit set by the Standard. This is illustrated in Att.2.1.i. where the: - aquifers Conoide Reno-Savenna are in yellow - acquifer Conoide dell'Idice is in purple - River Reno and Setta's watershed is in red The Site's catchment area has been illustrated in Document Att.2.1.j .
2.2.1	**1.2.1.**	**Identification of stakeholders and their water challenges (list of stakeholders, prior engagement and their water challenges)**	☒	☐	MTB has prepared an excel spreadsheet “MTB Stakeholder Map” (interested parties), each steakholder, classified as internal/external, their water realted concerns and the engagement actions to date for each one. They are listed in Apendix III “Stakeholder list”
2.2.2	**1.2.2.**	**Site sphere of influence (how the stakeholders are within the sphere of influence).**	☒	☐	“MTB Stakeholder Map" document, describes the site´s sphere of influence as per AWS guidance, aligning to each of the stakeholders identified. This document assesses each stakeholder and it´s influence and power. This document describes too, the engagement to date with each stakeholder.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					The assessment is high, medium or low for each criterion (Power and Influence)
2.3.1	**1.5.1**	**Catchment data (catchment plan, public initiatives and/or public goals for the site)**	☒	☐	The most important public documents for the catchment are: River basin/management plan of Torrente Samoggia Reference (Att.2.3.a): Flood-risk areas of Torrente Samoggia River basin/management plan of Reno River (Att.2.3.b): Flood-risk areas of Torrente Reno (Map B.2); Catchment planning (areas subjected to hydraulic risk/historical record of significant flood events); Catchment goals (to reduce/minimize hydraulic risk) Consorzio di Bonifica Renana: mitigation and containment of flood events due to levees, canal dredging, installation of pumping stations and river expansion chambers
2.3.2	**1.5.2**	**Water governance for the catchment: Water legal and regulatory requirements, including water and water use rights**	☒	☐	MTB has the Environmental authorization in accordance with Regional Law 59/2013, released by the SUAP (Sportello Unico delle Attività Produttive) of the territorial Municipality.
2.3.3	**1.5.3**	**Water balance for the catchment (surface water, ground water, other)**	☒	☐	The catchment water balance has been analysed considering the Provincial territory of Bologna which encompasses the catchment area territory (The Provincial territory of Bologna includes the Municipality of Valsamoggia.
2.3.4	**1.5.4**	**Water quality for the catchment: sewerage discharge, run-off, other)**	☒	☐	Water quality is periodically measured by HERA (Att.2.1.c) in accordance with the D.Lgs. n.31/2001. Water samples are analysed in an authorized laboratory, Heratech srl (n. certificato: IT279273). Data-quality results are available on HERA's website from 2007-2018 (Att.2.3.d) HERA has approximately 33 sampling points within a 10 km radius from MTB (See Att.2.1.d). The location of the sampling points and HERA's quality control plans are not publicly disclosed. They are made available only for the Local Health Authority (Azienda USL). MTB operates their own analysis on potable and waste waters MTB ensures that: All workers on-site have access to safe drinking water: each floor is equipped with dispenser machines for potable water supply; water mugs are available in meeting rooms

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					The canteen is certified HACCP (Hazard Analysis and Critical Control Points), guaranteeing adequate hygiene and food safety (Att.2.3.q); potable water is provided by water dispensers and not in plastic bottles.
2.3.5	**1.5.5**	**Water related areas for the catchment: identification of the areas and description of current status and trends**	☒	☐	MTB identifies 9 IWRA and describes for each one the type of risk for the catchment (in terms of quantity and quality); All of them are evaluated as a low o moderated risk Document Reference 2.3.1. IWRA Risk Analysis The I.W.R.A. have been identified using: - The World Database on Protected Areas (WDPA), see Att.2.3.n - The Piano Terriotoriale di Coordinamento Provinciale (PTCP) of Bologna for archaeological assets, see Att.2.3.o
2.3.6	**1.5.6**	**Infrastructure for the catchment: available information on current and projected sufficiency of water to meet the needs of the catchment**	☒	☐	Water-related infrastructures include are: MTB's WWTP and discharge network HERA's potable water supply and sewage network and the Anzola dell'Emilia treatment plant Consorzio di Bonifica Renana discharge canals (Canale Cassoletta, Canale St. Almaso Vecchio and Canale Allacciante Cassoletta St. Almaso Vecchio)
	1.5.7				
2.4.1	**1.3.1**	**Water data for the site: water stewardship and incident response plan**	☒	☐	The emergency response plan identifies the functional areas of the warehouse, the activities performed and the emergency management. The various scenarios described include: exceedances in emissions/discharges, seismic and flood events, spillages, fires etc. There isn´t any incidents until this moment.
2.4.2	**1.3.2**	**Water data for the site: water balance (volumetric balance of water input and output)**	☒	☐	MTB has calculated the most recently water balance for the site in 2018.
	1.3.3.				
2.4.3	**1.3.4.**	**Water data for the site: water quality (direct and outsourced water effluent and also possible pollution sources)**	☒	☐	As previously specified in 2.3.4., the physical, chemical and biological status of the water in the catchment is determined both by HERA and by SIMIC and SUEZ (under MTB commission) in order to understand the quality status of the catchment waters used and emitted.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					Checked AUA n. DET-AMB-2018-1527 of 28.03.2018
2.4.4	**1.3.5.**	**Water data for the site: water quality (inventory of chemicals stored on site that are possible causes of water pollution)**	☒	☐	It has a list with all the stored chemical products The chemical storages have proofing pools.
2.4.5	**1.3.6**	**Water data for the site: On-site identified water related areas**	☒	☐	MTB doesn't have any IWRA on site. MTB has identified 9 IWRA in the catchment. MTB has identified and evaluated its risk level as low or moderate.
2.4.6	**1.3.7**	**Water data for the site: water related costs, revenues and quantification of social, environmental and economic value generated by the site to the catchment**	☒	☐	Costs are compiled for 2018 PMI AWS Assessment tool, documents 2.4.h., 2.4.i and 2.4.g.
	1.3.8				
2.5.1	**1.4.1**	**Indirect water use: list primary inputs with their associated (annual) water use and, if possible, the origin of the water**	☒	☐	MTB has sent to 22 of the most important direct materials suppliers a letter asking about their water management.
2.5.2	**1.4.2**	**Indirect water use: list of outsourced services that consume or affect water quality. List estimated annual withdrawals and quality data.**	☒	☐	The only indirect water use outsourced service on site is from the lunch services company, WWTP company (SUEZ) and maintenance company (SIMIC). They have been informed about AWS and the water use. SIMIC and SUEZ attended to Stakeholders meeting. The estimated annual consumption is indicated in the 2018 MTB Water Consumption. This water comes from the water service provider.
2.6.1	**1.6.1**	**List of shared water challenges that affect the catchment**	☒	☐	The concept of water risk was implemented and evaluated in a water-related risk assessment conducted for the catchment territory using the Water Risk Filter (http://waterriskfilter.panda.org/) an AWS Standard Tool. The Water Risk Assessment for the catchment area is available as Att.2.7.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					They have been evaluated as high, moderate or low and therefore prioritized accordingly.
	1.6.2				
2.7.1	**1.7.1**	**Site risks and opportunities: list of site water related risks and actions to address the challenges**	☒	☐	(MTB has a list of water related risks as those considered for the catchement area.)
2.7.2	**1.7.2**	**Site risks and opportunities: list water related opportunities**	☒	☐	MTB has developed "Water Stewardship Strategy and Plan.xls" which is a matrix that identifies opportunities for the site and stakeholders, evaluating the costs involved, benefits for different actions in order to get the opportunities identified: - MTB is implementing a more sustainable water management by reducing, optimizing and recycling potable water use in production activities - In order to reduce discharge of production waste water, MTB has implemented the reuse of treated waste waters in feeding cooling towers, feeding steam boilers and primary process In order to avoid contamination during waste water discharge and/or treatment: - periodic and accurate maintenance of piping, storage tanks and waste water treatment plants are executed, - the use of hazardous substances during production processes regulated by correct storage/stockage modalities and - water quality controls on the discharged waters are execured by internal stakeholders.
2.7.3		**Site risks and opportunities: analysis of potential savings/value creation that could result from actions to address the challenges. Look at the actions in the context of water quality, water related areas, water governance, etc.**	☒	☐	Int the same matrix, there is a section for value creation, which includes a column for each of three pillars : environmental, economic and social value.
	1.8.				
2		Water Challenges (advanced)			Evidence and Scoring

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
2.8		**Evidence that water data gathering (criteria 2.3) was jointly done by the client and other organisations in the catchment (public sector included). (4 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
2.9		**Evidence of water data gathering beyond the standard requirements, especially in highly data deficient environments. (3 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
2.10		**Copy of a study on projected future state conditions relative to quantitative and quality parameters and impacts on the site growth. (3 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
2.11		**Site water related supply chain with indirect water use amounts and site efforts to date. (7 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
2.12		**Site contribution to groundwater recharge and/or environmental flows restoration in coordination with relevant governmental agencies. (10 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
2.13		**Voluntary Social Impact Assessment for the site with emphasis on water. (3 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
3		Stewardship strategy and plan (core)			Comments/Evidence
3.1.1	**2.2.1**	**Evidence of a system that periodically evaluates compliance with legal and regulatory requirements in criteria 2.3, together**	☒	☐	A third-party conduct annual audits in order to verify legal compliance. The audit report for 2018 is available (Att.3.1.a). On a periodic basis, meetings amongst the EHS&S Department are carried out in order to highlight legal updates, KPI's, trainings etc. A copy of the

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		with names of those responsible.			18.05.28 EHS&S department meeting memorandum is available (Att.3.1.c).
3.2.1	**2.3.1**	**Stewardship strategy that contains water challenges within the catchment and risks for the site together with the site responses**	☒	☐	MTB has developed a strategy document is updated each three years Att.3.2.a. AWS Strategy and Action Plan - 2019/2021 It includes water challenges of the catchment, water risks, opportunities, goals, actions, benefits, management, managers and timeline.
3.2.2	**2.3.2**	**Stewardship plan that contains:**	☒	☐	
a)		**List of targets (as per criteria 2.7) and how continuous improvement and best practice are achieved. The targets need to be SMART**	☒	☐	"AWS Strategy and Action Plan" document, is the AWS action plan and it has different action to implement for each goal and the achieved results.
b)		**Proposed actions to achieve the targets and names of individuals responsible for each**	☒	☐	The actions planned the names and individual managers for each are included per action in the "AWS Strategy and Action Plan" shown in the spreadsheet
c)		**A budget for the proposed actions with a cost benefit analysis**	☒	☐	MTB has identified costs and benefits for each action within the action plan "AWS Strategy and Action Plan". At the Action Plan there is also a column for the benefits and are aligned to the outcomes of water stewardship.
d)		**Links to the desired results in terms of risks/opportunities, water stewardship outcome and shared water challenges**	☒	☐	Each of the goals in the "AWS Strategy and Action Plan " are associated with their respective strategy, which are originated in the risks, challenges and opportunities.
3.3.1		**Evidence of responsiveness and resilience to water related risks embedded in the site's incident response plan**	☒	☐	MTB has an Emergency Response Plan in place (Att.3.3.a)
3.4.1	**3.1.1**	**Evidence of notification to relevant catchment authority of the intention of the site to contribute to the objectives of the catchment plan**	☒	☐	MTB involved and developed activities with catchement authorities as list in the the Stakeholder list doc.Confidential information)
	3.1.2				
3		Stewardship strategy and plan (advanced)			Evidence and scoring

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
3.5.1		**Evidence that consensus on at least one of the site's targets has been achieved with the stakeholders. (7 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
3.6.1		**Evidence of a plan, developed in coordination with public agencies and infrastructure management agencies, that includes water related adaptation strategies to mitigate climate change risks. (6 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4		Implementation of the water stewardship plan			
4.1.1	**3.2.1**	**Evidence of compliance legal and regulatory requirements with regards to water balance, water management and Important Water related areas**	☒	☐	The legal compliance is conform and no legal compliance deviations have been detected. Please refer to 3.1.1 and relative supporting documentation.
4.1.2	**3.2.2**	**Evidence of efforts to provide safe drinking water and sanitation where stakeholders have an unmet human right**	☒	☐	Italy is a country where this section is not necessary to justify.
4.2.1 and 4.2.2	**3.3.1. And 3.3.2**	**Evidence that the site water balance targets are met. If in a water scarcity situation, also evidence that there is a continuous decrease in water withdrawals**	☒	☐	MTB has carried out different water reduction actions, the most important things are: - Water reuse - Reduce the water consumption They are explained in the action plan.
4.2.3	**3.3.3**	**Only in scarcity situations, evidence of no net increase in water scarcity**	☒	☐	MTB does not plan to increase water consumption and water withdrawals from HERA. .

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
4.3.1	**3.4.1**	**Evidence that shows that water quality targets are met**	☒	☐	No significant risks regarding water quality have been identified.
4.3.2	**3.4.2**	**For water quality stressed catchments only: evidence of continual improvement or best practice**	☒	☐	The catchment area is not water quality-stressed. Nevertheless MTB conducts regular water quality analysis in order to verify legal compliance:
4.3.3		**For water quality stressed catchments only and where the site wishes to increase effluent levels of water quality parameters: evidence of no net degradation in water quality in the catchment**	☒	☐	HERA supplies and guarantees potable water quality in line with legislative requirements (Att.2.3.d). In addition, MTB performs periodical laboratory analysis to verify the status of the potable water supplied by HERA (Att.2.3.e).
4.4.1	**3.5.1**	**Evidence that targets for the Important Water related Areas have been met**	☒	☐	This criteria is not applicable as no important W.R.A are present on-site.
4.4.2		**Where Important Water Related Areas is a shared water challenge, evidence that best practice are met.**	☒	☐	This criteria is not applicable as no important W.R.A are present on-site.
4.5.1		**Evidence of the site's on-going efforts to contribute to good catchment governance (evidence of coordination and cooperation with catchment management authorities)**	☒	☐	In 2018 PMI engaged with INOGEN to support worldwide PMI facilities during AWS certification: - From February 2019, MTB engaged with Beatrice Bizzaro and Eugenio Capponi from HPC Italia for support and periodical evaluation of AWS template and supporting documents MTB has actively and positively contributed to catchment governance by: - Organizing workshops in local universities and high schools in order to raise awareness of water-related risks at catchment level - Organizing social initiatives with the local community (i.e. World Water and Clean Up Day) in order to promote conservation and safekeeping of the water resource at catchment level - Attending relevant meetings with catchment management authorities - Strengthening stakeholder's beliefs in sustainable water management and recycling practices
4.5.2		**Only for weak water governance**	☒	☐	This criteria is not applicable for MTB.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		catchments: evidence of continual improvement/best practice			
4.6.1	**3.7.1**	**Evidence that site product suppliers and water related service providers have been contacted and are taking actions to contribute to the water stewardship outcomes**	☒	☐	MTB has involved the stakeholders and there has been meetings with them. The most immportant stakeholders attended to the audit meeting and all of them explained their point of view about the scarcity in the catchment. It is a starting point in order to increase awareness of people who live in the catchment on water scarcity.
	3.7.2				
4.7.1	**3.6.1**	**List of actions to ensure WASH on site**	☒	☐	During the site visit, it was confirmed that the workers, have access to safe water, sanitation and hygiene, as this is also a requirement of the legal regulations for factories in Italy.
	3.6.2				
4.8.1	**3.8.1**	**Evidence and list of key owners of the water infrastructure and content of message that has been conveyed related to the site risks and shared water challenges**	☒	☐	**HERA,(private company which manages the infrastructure)** In order to search, avoid and reduce leaks and spillages, HERA executes regular quality check **The Consorzio della Bonifica Renana (Water Competent Authority)** he Consorzio della Bonifica Renana is responsible for the governance and maintenance of the canals that surround the MTB facility (Canale Cassoletta, Canale St. Almaso Vecchio & Canale Allacciante Cassoletta - St. Almaso Vecchio) and other canals in the Valsamoggia area (Att.2.1.f). the Consorzio is not directly responsible of the qualitative analysis of the waters if the canal is not directly engaged in irrigation. The canals surrounding MTB are not used for irrigational purposes (Att.4.8). All infrastructures as WWTP and WTP, belong to MTB and these are maintenance by MTB
	3.9				
4		Implementation of water stewardship plan (advanced)			Evidence and scoring
4.9.1		**Evidence of quantified improvements in**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		water balance from site-set baseline date.			
4.9.2		**Evidence that best practice has been achieved with respect to the site's water balance targets as informed by stakeholders or industry benchmark. (8 points for both 4.9.1 and 4.9.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.10.1		**Evidence that targets have been met with regards to site water quality**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.10.2		**Evidence that best practice has been achieved with respect to the site's water quality targets as informed by stakeholders or industry benchmark. (8 points for both 4.10.1 and 4.10.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.11.1		**Evidence of complete restoration of non-functioning or severely damages Important Water Related areas.**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.11.2		**Evidence that best practice has been achieved with respect to the restoration of Important Water Related Areas as informed by stakeholders or credible expert opinion (8 points for both 4.11.1 and 4.11.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.12.1		**Evidence of list of actions to strengthen water governance capacity as informed by stakeholder's consensus and public sector leadership recognition.**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
4.12.2		**Evidence of list of actions to reach best practice in water governance capacity as informed by stakeholder's consensus and public sector leadership recognition (8 points for both 4.12.1 and 4.12.2).**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.13.1		**List of efforts to contribute to the development of regional industrial water related benchmarking and spreading best practice (3 points)**	☐	☐	MTB. were just not applied in this case, but the site could apply it in future
4.14.1		**Any water saved by the site under criteria 4.2 has been reallocated for social and environmental needs.**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.14.2		**Legal contracts for the re-allocation of the saved water (6 points for both 4.14.1 and 4.14.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.15.1		**Collective actions to address shared water challenges: list all collective actions taken and the role played by the site**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.15.2		**Collective actions to address shared water challenges: quantified improvements (8 points for both 4.15.1 and 4.15.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.15.3		**Collective actions to address shared water challenges: stakeholders recognition that the site played a major role (6 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.16.1		**Drive reduction of indirect water use in the supply chain: list**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		suppliers and details on their engagement			
4.16.2		**Drive reduction of indirect water use in the supply chain: evidence of quantitative improvements of the suppliers (5 points for both 4.16.1 and 4.16.2)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.16.3		**Drive reduction of indirect water use in the supply chain: Supplier based evidence that the site has played a major role in driving the reduction (2 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.17.1		**Evidence of completion of one of the initiatives listed under 1.4 (3 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.18.1		**List actions taken in the context of WASH (5 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
5		Evaluation (core) "against the actions taken in the implementation of the plan". Expectation of such an evaluation at least annually. For the first implementation, look for evidence that these indicators are included in the plan.			
5.1.1	**4.1.1**	**Post implementation data and discussion on performance (water risk)**	☒	☐	Continual improvement in performance are demonstrated by the following Att.5.1.b - Att.5.1.d. In 2018, the KPI system for water consumption was devised to monitor and control all activities and projects related to water saving initiatives (Att.4.2.j).
5.1.2	**4.1.2**	**Total amount of water related costs, cost saving and value creation with regards to the actions of criteria 3.2**	☒	☐	The water related cost saving and value creation with regards to the actions of criteria 3.2 has been described in Att.3.2.c. Water saving initiative presentation.
5.1.3	**4.1.3**	**Updated data for indicator 2.4.7 on**	☒	☐	Through the management review meeting

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		catchment shared value creation			
5.2.1	**4.2.1**	**Evidence of evaluation of water related emergencies and extreme events (effectiveness of preventive and corrective measures) and inclusion of lessons learnt in the updated action plan**	☒	☐	Through the management review meeting
5.3.1	**4.3.1**	**Feedback and commentaries from stakeholders on the site water stewardship performance and factor input in the updated action plan**	☒	☐	MTB had several meetings with the stakeholder. MTB has collected their opinion and some actions have been developed. These actions are described in the Action Plan.
5.4.1	**4.4.1**	**Update of the plan with the inputs from indicators 5.1.1, 5.1.2, 5.2.1, 5.3.1. Update does not apply for the first implementation/audit**	☒	☐	It will be checked for the first surveillance audit. We are currently undergoing certification and implementing the AWS plan and strategy for the first time. The water stewardship and incident plan will be updated on a yearly basis and relevant changes/modifications will be made if required.
5		Evaluation (advanced) “against the actions taken in the implementation of the plan”.			Evidence and Scoring
5.5.1		**Review of the site water stewardship performance with executive team or board and provide evidence of meeting through minutes (3 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
5.6.1		**Evidence of a formal stakeholder’s evaluation: minutes of meeting and recommendations for updated criteria 3.5 related to good governance, adequate flows, good water quality and functioning of**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		Important Water Related Areas			
6		Disclosure and communication of performance (core)			
6.1.1	**5.1.1**	**Disclosure and public availability of summary related to the general governance structure of the site's management with names of those accountable for compliance with water related laws and regulations**	☒	☐	MTB has a general governance structure of the site´s management with names of those accountable for compliance with water related laws and regulations.
6.2.1	**5.2.1**	**Disclosure of summary of site's water stewardship results against the targets**	☒	☐	See Appendix IV. MTB Communication Department is one of the strongest points in their AWS system
	5.3				MTB has engaged, on various occasions, with several stakeholders in order to actively disclose information on water stewardship certification and shared water challenges. This has been illustrated in the Communication Memorandum (See Att.3.4.a)
6.3.1	**5.4.1**	**Disclosure and public availability of efforts to address shared challenges and report on actions taken to help address these challenges and engage stakeholders, including public sector agencies**	☒	☐	
	5.4.2				
6.4.1	**5.5.1**	**Document and make available a list of any site water compliance violation together with the corrective action implemented to prevent further occurrence.**	☒	☐	MTB doesn't have any corrective action because they doesn´t have any violation about water legal requirements.
	5.5.2				
	5.5.3				
6.5.1		**Evidence of awareness related initiatives at site level with dates of communications**	☒	☐	MTB Internal Communication unit has generated an Internal Communication Plan (Att.6.5.k) highlighting internal communication activities and awareness campaigns.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		and, if possible, level of awareness			These include: Dashboard Slides in the Info. Point areas (Att.6.5.e, Att.6.5.f & Att.6.5.l) : the presentations have been appreciated by employees and external visitors (Att.6.5.g) Business Updates: n.5, n.6, n.8, n.9 and n.10 (Att.6.5.p, Att.6.5.q, Att.6.5.h, Att.6.5.i & Att.6.5.v) INTERNOS and INOGEN magazine article (Att.6.5.u) Staff meetings: 5th April 2019 a meeting was held with SIMIC, SUEZ, LOGISTA, POLITECNICA and DUSSMANN about water-related challenges on-site (See 6.3) 21st of May 2019 a project update was held with MTB's Senior Management Team presenting the AWS Mock Audit results (Att.6.5.m & Att.6.5.r) 23rd of May 2019 a key message presentation on AWS project update was disclosed amongst MTB unit manager members i.e. Supply Chain (Att.6.5.n & Att.6.5.o) Video wall in the entrance area, with monthly highlights of KPI's water saving initiatives and outcomes, in order to reach out to visitors (over 3.000 visitors in 2018) as well as employees (Att.6.5.g) Video shooting on AWS certification journey with AWS team members Ing. Alberton, Ing. Iannacci, Dott.ssa Altruda and Dott. Palotta (Att.6.5.s & Att.6.5.t)
6		Disclosure and communication of performance (advanced)			Evidence and Scoring
6.6.1		**Written evidence of disclosure of site water related risks to owners (4 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
6.6.2		**Disclosure of site water related risks to owners on a recognised disclosure framework (2 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future
6.7.1		**Evidence of implementation of a programme for water education at catchment level and description of the programme (4 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
6.8.1		**Evidence of discussion of the site water stewardship initiative in the organisation annual report, including references of benefits to stakeholders (2 points)**	☐	☐	MTB were just not applied in this case, but the site could apply it in future

7 AUDIT FINDINGS

PHILIP MORRIS MTB responded to the issues arised during the gap assessment.Additional information was supplied to SGS- SGS reviewed and accepted the documentation. All issuess were closed by the Lead Auditor during the final audit days .

7.1 MAJOR NON CONFORMANCES

During the course of the audit no major non-conformances were raised.

7.2 MINOR NON CONFORMANCES

During the course of the audit no minor non-conformances were raised.

7.3 OBSERVATIONS

One observation was raised during the audit which are affectively recommendations for future improvement. No action is necessary during this audit period but these issues would most likely come under scrutiny during a surveillance audit scenario.

Table 7.3.1. Observations and New Information Requests raised during the AWS audit process

No.	Type	Ref.	Details	Response by PHILIP MORRIS MTB	Relevant References
1	Observation	3.2	The strategy plan will be evaluated in the surveillance audit. The surveillance audit will check the figures about the targets described in order to achieve a water comsumption reduction.		

8 SUMMARY

In reviewing the body of evidence presented by Philip Morris MTB it is apparent that a considerable quantity of effort and work has been put into the preparation for the audit for Alliance for Water Stewardship Certification.

No major and minor non-conformances were identified during the audit.

One observation was made during the audit, this is to be considered as areas for improvement which will likely be reviewed in future surveillance audits.

PHILIP MORRIS MTB has developed a best practice that consists in a tool to comply with AWS that has been considered an opportunity of improvement for PMI affiliates that will start AWS Certification.

No actions are required inmediatly on behalf of PHILIP MORRIS MTB during this audit process.

All evidence submitted to SGS in response to the issues were reviewed and evaluated for compliance to the AWS standard. All actions were accepted as sufficient to demonstrate compliance.

9 OPPORTUNITIES FOR IMPROVEMENT

PHILIP MORRIS MTB has developed a best practice that consists in a tool to comply with AWS that has been considered an opportunity of improvement for PMI affiliates that will start AWS Certification.

This tool is useful and should consider the possibility of extending these tool to other facilities of the company. This tool could allow to standardize and unify the answer of Phillip Morris to the AWS requirements in different facilities which will decide to implement this Standard.

In the event that Phillip Morris decides to implement this tool in other facilities, it is recommended to prepare a guide that allows its implementation in the same way in all of them.

10 CONCLUSIONS AND RECOMMANDATIONS

Given the review of evidence produced and site visit inspections performed at Philip Morris MTB, SGS recommends that PHILIP MORRIS MTB is awarded AWS Certified status with a surveillance audit interval of annual frequency.

11 REFERENCES

Att.1.1.a. AWS commitment
Att.1.1.b. AWS commitment communication plan
Att.1.1.c. AWS commitment in MTB Oneplace
PMMTB Committment publicly disclosed on internet page after the final audit.
This Week Today is the last day to contribute to IShare Opportunity for mechanization in Indonesia and more!
Att.1.2.a. Environmental policy
Att.1.2.b. Sustainability PMI video communication
Att.2.1.a. MTB site boundaries
Att.2.1.b. HERA Q and A part 1
Att.2.1.c. HERA Q and A part 2
Att.2.1.d. HERA Q and A part 3
Att.2.1.e. Sewage plant AUA 2017
Att.2.1.f. Sewage plant AUA 2018
Att.2.1.g. Consorzio Bonifica Renana layout
Att.2.1.h. Reno River catchment area
Att.2.1.i. Catchment Area
Att.2.1.j.Catchment Area (detail)
Att.2.1.k. Rivers and water canals of interest
Att.2.1.l. Chemical storage and spill prevention maps
Att.2.1.l.bis spill prevention maps
Att.2.1.n. WWTP maintenance and monitoring plan
Att.2.1.o. WWTP hydraulic and piping layout
Att.2.1.p. Oil-water separator maintainance protocol
Att.2.2.a. Stakeholder Map
Att.2.2.b. Water demanding companies
Att.2.3.a. PSAI_Samoggia_Rel_all tecnico B
Att.2.3.a. PSAI_Samoggia_tav_1_2
Att.2.3.a. PSAI_Samoggia_tav_2_8
Att.2.3.a. PSAI_Samoggia_tav_B_2
Att.2.3.b. PSAI_Reno_Relazione
Att.2.3.b. PSAI_Reno_tav_B2
Att.2.3.c. SIMIC Potable water_Allacciamento HERA_18.06.01
Att.2.3.c. SIMIC Potable water_Allacciamento HERA_18.12.20
Att.2.3.c. SIMIC Potable water_Vasca Accumulo_18.06.01
Att.2.3.c. SIMIC Potable water_Vasca Accumulo_18.12.20
Att.2.3.f. SUEZ monthly reports
Att.2.3.g. Legionella reports
Att.2.3.c. Technical geological and hydrogeological report
Att.2.3.h. SIMIC logbook
Att.2.3.i. IWRA report
Att.2.3.i. Report Important Water-Related Areas
Att.2.3.j. Important Water-Related Areas
Att.2.3.k. Important Water-Related Areas (detail)

Att.2.3.l. Flood risk map
Att.2.3.m. IWRA Risk Analysis
Att.2.3.n. The World Database on Protected Areas (WDPA)
Att.2.3.o. Piano Territoriale di Coordinamento Provinciale (PTCP) for archaeological assets
Att.2.3.p. Bologna provincial territory
Att.2.4.a. Human element and emergency response plan
Att.2.4.b. MTB water balance 2018
Att.2.4.c. MTB water flow 2018
Att.2.4.d. MTB water flow and metering 2018
Att.2.4.e. HERA water analysis
Att.2.4.f. Environmental due diligiance report
Att.2.4.g. MTB water-related costs
Att.2.5.a. Water webinar
Att.2.5.b. Leaf water mission
Att.2.5.c. WASH pilot project
Att.2.5.d. EHS EU Environmental Sustainability meeting
Att.2.5.e. Ornamental fountain and pool
Att.2.7. Water Risk Assessment
Att.3.1.a. Internal audit report 2018
Att.3.1.b. ARPAE site inspection report
Att.3.1.c. EHSS internal meeting memorandum
Att.3.2.a. Water stewardship strategy and plan
Att.3.2.c. Water saving initiative presentation
Att.3.3.a. Emergency plan
Att.3.3.b. Water saving result communication
Att.3.3.c. Daily Report WEI-EEI
Att.3.4.a. Stakeholder communication Memorandum
Att.3.4.b. Outreach emails to Consorzio della Bonifica Renana
Att.3.4.c. Meeting Memorandum with Consorzio della Bonifica Renana
Att.3.4.d. Outreach email to Confindustria
Att.3.4.e. Meeting Memorandum with Confindustria
Att.3.4.f. Outreach email to Mayor of Valsamoggia
Att.3.4.g. Meeting Memorandum with the Mayor of Valsamoggia
Att.3.4.h. Meeting Memorandum with ARPAE
Att.3.4.i. Memorandum communication to Consorzio della Bonifica Renana
Att.3.4.j. Memorandum communication to Confindustria
Att.3.4.k. Memorandum communication to Mayor of Valsamoggia
Att.3.4.l. Memorandum communication to ARPAE
Att.4.2.a. S-I-P water initiative
Att.4.2.b. Water improvement 2018
Att.4.2.c. Reduction projects 2019
Att.4.2.d Water treatment and recycling
Att.4.2.e. WEI + EEI
Att.4.2.f. Waste water calculator
Att.4.2.g. Water reuse scenario (1)

Att.4.2.h. Water reuse scenario (2)
Att.4.2.i. Sustainability pipeline
Att.4.2.j. Leadership dashboard KPI 2018
Att.4.2.k. Sustainability management review
Att.4.2.l. Water local strategy workshop
Att.4.2.m. 2016-2018 A.U.A
Att.4.5.a. AWS training
Att.4.5.b. Project alignment
Att.4.5.c. AWS Site visit
Att.4.5.d. AWS Preliminary assessment
Att.4.7. HACCP certification
Att.4.8. Email exchange with Consorzio della Bonifica Renana
Att.5.1.a. Mock-Audit results and report
Att.5.1.b. Evaluation of shared value creation
Att.5.1.c. Water consumption
Att.5.1.d. ENV operations sustainability figures
Att.5.1.e. Mock-Audit communication email
Att.5.1.f. Mock-Audit results and report disclosure
Att.5.2.a. Relevant authority information disclosure
Att.5.2.b. Emergency safety intervention report
Att.5.2.c. Disclosure of no contamination detection
Att.5.2.d. Ufficial PEC communications
Att.6.1.a. AWS team organization chart
Att.6.1.b. External Affair Communication Plan
Att.6.2. External communications and public statements policy
Att.6.3.a. MTB External Affair's social media disclosure
Att.6.3.b. Social media disclosure communication
Att.6.3.c. Facebook AWS post
Att.6.3.d. Twitter AWS post
Att.6.3.e. Meeting Memorandum of the Val di Setta visit
Att.6.3.f. Internal Stakeholder Presentation
Att.6.3.g. Attendance List
Att.6.3.h. Outreach email to Granarolo
Att.6.3.i. Meeting Memorandum with CIR Food
Att.6.3.j. Memorandum communication to CIR Food
Att.6.3.k. INOGEN meeting agenda
Att.6.3.l. INOGEN presentation MTB
Att.6.3.n. HERA QA 3 communication email
Att.6.3.o. HERA QA 2 communication email (1)
Att.6.3.p. HERA QA 2 communication email (2)
Att.6.3.q. HERA QA 1 communication email
Att.6.3.r. Memorandum communication to HERA
Att.6.3.s. Internal stakeholder engagement communication
Att.6.3.t. Cir Food communication reply
Att.6.3.u. HERA interest in AWS certification

Att.6.3.v Logista AWS Certification interest
Att.6.5.a. PMI sustainable water management
Att.6.5.b. PMI and AWS engagement
Att.6.5.c. PMI International business agenda 2030
Att.6.5.d. Sustainability report 2017
Att.6.5.e. Dashbord presentation (1)
Att.6.5.f. Dashbord presentation - video (2)
Att.6.5.g. Dashboard and Videowall photolog
Att.6.5.h. MTB Business Update n.8
Att.6.5.i. MTB Business Update n.9
Att.6.5.j. Sustainability report 2018
Att.6.5.k. Internal Communication Plan
Att.6.5.l. Dashboard presentation (3) with video
Att.6.5.m. Senior management team presentation
Att.6.5.n. Key message presentation
Att.6.5.o. AWS presentation feedback
Att.6.5.p. MTB Business Update n.5
Att.6.5.q. MTB Business Update n.6
Att.6.5.r. Senior management team comunication
Att.6.5.s. MTB video communication for AWS
Att.6.5.t AWS Video
Att.6.5.u. Article Submission Form 2019_AWS
AWS in Crespellano - Total water footprint and CDP links
GAP Agenda Attendance List
PMI AWS Assessment Tool.19.06.18
Report Hera
Water Projects Stage Gate Mapping - Q1 2019

APPENDIX 1

SGS AUDIT CHECKLIST

Guidance to auditor(s):

This document is intended to provide structured assistance to conduct the audit. To fit that purpose it contains key questions related to each standard clause. It shall not be part of the audit report.

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
1		**Leadership (core)**			
1.1	**2.1.1**	**Leadership commitment on water stewardship**			
1.1.1		**Has the organisation signed and published a statement related to his water stewardship commitment that includes all of the elements listed in core criteria 1.1?**	☒	☐	**MTB AWS Commitment in revision number 1.0 (revision date 10.10.2018) describes their Water Stewardship Commitment and includes the listed elements in core criteria.** **This Water Stewardship Commitment is signed by the Director Manufacturing Oleksiy Lomeyko.** **This document is available in the EHS Portal, which is accessible to all MTB employees (Att.1.1.c). The MTB AWS Commitment will be publicaly disclosed after the obtainment of AWS certification.**
1.2.1		**Has the organisation elaborated, agreed upon and discloses a water stewardship policy?**	☒	☐	**PMI Environmental Policy: An internally agreed-upon environmental commitment statement with specific reference to stewardship requirements.** **The public policy can be found at the following PMI site Document Reference (Att.1.2.a.)** **MTB has made a video which is played in the factory screens. Document Reference Att.1.2.b.** **Documents Att.6.5.a,6.5.b & 6.5.c for public PMI global AWS commitment.**
1		**Leadership (advanced)**			**Evidence and Scoring**
1.3		**Has the organisation initiated any action to further the AWS? (3 points per action)**	☒	☐	**MTB were just not applied in this case, but the site could apply it in future**
1.4		**Has the organisation committed to other initiatives that advance water stewardship? (3 points)**	☒	☐	**MTB were just not applied in this case, but the site could apply it in future**
1.5		**Is there a water stewardship commitment from the most senior executive of the organisation? (1 point)**	☒	☐	**MTB were just not applied in this case, but the site could apply it in future**
1.6		**Is there a commitment to assist with community water needs in time of stress? (8 points)**	☒	☐	**MTB were just not applied in this case, but the site could apply it in future**
2		**Water challenges (core)**			**Comments/Evidence**
2.1.1	**1.1.1**	**Site boundaries (map)**	☒	☐	**The general overview map showing the Site boundaries as well as the points of withdrawl and discharge is in place are described in the document Att.2.1.a. MTB site boundaries**

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
2.1.2		Name and location of sources of water (immediate and ultimate)	☒	☐	MTB recieves water from a primary aqueduct system (Acquedotto Primario di Bologna) managed by HERA S.p.A (here foward HERA), a local water service provider responsable for providing potable water to MTB. According to information provided by HERA, the Acquedotto Primario di Bologna draws water from superficial and deep water sources but not from spring sources. The groundwater is drawn from active wells found at depths between 200 - 450 m at the following plants: - Tiro a Segno - San Vitale - Borgo Panigale - Fossolo - Mirandola The surface water is drawn from the Reno and Setta River. The Val di Setta plant, located at the confluence of these two rivers, is responsible for the catchment and treatment of the collected water. A copy of the Q&A exchanged between MTB and HERA in November 2018, February and March 2019 are available MTB has a Water treatment plant previous to the use into the process.
2.1.3		Name and location of effluent discharges	☒	☐	Domestic and industrial waste water are discharged in public sewage system; Industrial waste water are treated in WWTP before the discharge in public sewage system.tion
2.1.4		Description or map of catchment (s)	☒	☐	The Acquedotto Primario di Bologna draws water from 2 Rivers (Reno and Setta River) and 5 water well clusters which extract water from 3 aquifers: 1. Conoide del Reno, from which well plants San Vitale di Reno, Tiro a Segno and Borgo Panigale extract water 2. Conoide del Savenna, from which well plant Fossolo extracts water 3. Conoide dell'Idice, from which well plant Mirandola extracts water The catchment will consequently be defined as the area containing HERA's water withdrawal bodies: the 3 aquifer bodies and the river's watersheds, as well as their up and down-stream areas of influence. The Reno River's watershed (approximately 6,000 km2) extends over most of the Emilia-Romagna region as illustrated in Att.2.1.h. The Site's catchment area, considering its influence up and down-stream, results as having an extremely broad extension, well above the 1,000 km2 limit set by the Standard. This is illustrated in Att.2.1.i. where the: - aquifers Conoide Reno-Savenna are in yellow - acquifer Conoide dell'Idice is in purple - River Reno and Setta's watershed is in red

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					The Site's catchment area has been illustrated in Document Att.2.1.j .
2.2.1	1.2.1.	Identification of stakeholders and their water challenges (list of stakeholders, prior engagement and their water challenges)	☒	☐	MTB has prepared an excel spreadsheet "MTB Stakeholder Map" (interested parties), each steakholder, classified as internal/external, their water realted concerns and the engagement actions to date for each one. They are listed in Apendix III "Stakeholder list"
2.2.2	1.2.2.	Site sphere of influence (how the stakeholders are within the sphere of influence).	☒	☐	"MTB Stakeholder Map" document, describes the site´s sphere of influence as per AWS guidance, aligning to each of the stakeholders identified. This document assesses each stakeholder and it´s influence and power. This document describes too, the engagement to date with each stakeholder. The assessment is high, medium or low for each criterion (Power and Influence)
2.3.1	1.5.1	Catchment data (catchment plan, public initiatives and/or public goals for the site)	☒	☐	The most important public documents for the catchment are: River basin/management plan of Torrente Samoggia Reference (Att.2.3.a): Flood-risk areas of Torrente Samoggia River basin/management plan of Reno River (Att.2.3.b): Flood-risk areas of Torrente Reno (Map B.2); Catchment planning (areas subjected to hydraulic risk/historical record of significant flood events); Catchment goals (to reduce/minimize hydraulic risk) Consorzio di Bonifica Renana: mitigation and containment of flood events due to levees, canal dredging, installation of pumping stations and river expansion chambers
2.3.2	1.5.2	Water governance for the catchment: Water legal and regulatory requirements, including water and water use rights	☒	☐	MTB has the Environmental authorization in accordance with Regional Law 59/2013, released by the SUAP (Sportello Unico delle Attività Produttive) of the territorial Municipality.
2.3.3	1.5.3	Water balance for the catchment (surface water, ground water, other)	☒	☐	The catchment water balance has been analysed considering the Provincial territory of Bologna which encompasses the catchment area territory (The Provincial territory of Bologna includes the Municipality of Valsamoggia.
2.3.4	1.5.4	Water quality for the catchment: sewerage discharge, run-off, other)	☒	☐	Water quality is periodically measured by HERA (Att.2.1.c) in accordance with the D.Lgs. n.31/2001. Water samples are analysed in an authorized laboratory, Heratech srl (n. certificato: IT279273). Data-quality results are available on HERA's website from 2007-2018 (Att.2.3.d) HERA has approximately 33 sampling points within a 10 km radius from MTB (See Att.2.1.d). The location of the sampling points and HERA's quality control plans are not publicly disclosed. They are made available only for the Local Health Authority (Azienda USL). MTB operates their own analysis on potable and waste waters MTB ensures that: All workers on-site have access to safe drinking water: each

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					floor is equipped with dispenser machines for potable water supply; water mugs are available in meeting rooms The canteen is certified HACCP (Hazard Analysis and Critical Control Points), guaranteeing adequate hygiene and food safety (Att.2.3.q); potable water is provided by water dispensers and not in plastic bottles.
2.3.5	1.5.5	Water related areas for the catchment: identification of the areas and description of current status and trends	☒	☐	MTB identifies 9 IWRA and describes for each one the type of risk for the catchment (in terms of quantity and quality); All of them are evaluated as a low o moderated risk Document Reference 2.3.1. IWRA Risk Analysis The I.W.R.A. have been identified using: - The World Database on Protected Areas (WDPA), see Att.2.3.n - The Piano Terriotoriale di Coordinamento Provinciale (PTCP) of Bologna for archaeological assets, see Att.2.3.o
2.3.6	1.5.6	Infrastructure for the catchment: available information on current and projected sufficiency of water to meet the needs of the catchment	☒	☐	Water-related infrastructures include are: MTB's WWTP and discharge network HERA's potable water supply and sewage network and the Anzola dell'Emilia treatment plant Consorzio di Bonifica Renana discharge canals (Canale Cassoletta, Canale St. Almaso Vecchio and Canale Allacciante Cassoletta St. Almaso Vecchio)
	1.5.7				
2.4.1	1.3.1	Water data for the site: water stewardship and incident response plan	☒	☐	The emergency response plan identifies the functional areas of the warehouse, the activities performed and the emergency management. The various scenarios described include: exceedances in emissions/discharges, seismic and flood events, spillages, fires etc. There isn´t any incidents until this moment.
2.4.2	1.3.2	Water data for the site: water balance (volumetric balance of water input and output)	☒	☐	MTB has calculated the most recently water balance for the site in 2018.
	1.3.3.				
2.4.3	1.3.4.	Water data for the site: water quality (direct and outsourced water effluent and also possible pollution sources)	☒	☐	As previously specified in 2.3.4., the physical, chemical and biological status of the water in the catchment is determined both by HERA and by SIMIC and SUEZ (under MTB commission) in order to understand the quality status of the catchment waters used and emitted. Checked AUA n. DET-AMB-2018-1527 of 28.03.2018
2.4.4	1.3.5.	Water data for the site: water quality (inventory of chemicals stored on site that are possible causes of water pollution)	☒	☐	It has a list with all the stored chemical products The chemical storages have proofing pools.
2.4.5	1.3.6	Water data for the site: On-site identified water related areas	☒	☐	MTB doesn't have any IWRA on site. MTB has identified 9 IWRA in the catchment. MTB has identified and evaluated its risk level as low or

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					moderate.
2.4.6	**1.3.7**	**Water data for the site: water related costs, revenues and quantification of social, environmental and economic value generated by the site to the catchment**	☒	☐	**Costs are compiled for 2018 PMI AWS Assessment tool, documents 2.4.h., 2.4.i and 2.4.g.**
	1.3.8				
2.5.1	**1.4.1**	**Indirect water use: list primary inputs with their associated (annual) water use and, if possible, the origin of the water**	☒	☐	**MTB has sent to 22 of the most important direct materials suppliers a letter asking about their water management.**
2.5.2	**1.4.2**	**Indirect water use: list of outsourced services that consume or affect water quality. List estimated annual withdrawals and quality data.**	☒	☐	**The only indirect water use outsourced service on site is from the lunch services company, WWTP company (SUEZ) and maintenance company (SIMIC).** **They have been informed about AWS and the water use. SIMIC and SUEZ attended to Stakeholders meeting.** **The estimated annual consumption is indicated in the 2018 MTB Water Consumption. This water comes from the water service provider.**
2.6.1	**1.6.1**	**List of shared water challenges that affect the catchment**	☒	☐	**The concept of water risk was implemented and evaluated in a water-related risk assessment conducted for the catchment territory using the Water Risk Filter (http://waterriskfilter.panda.org/) an AWS Standard Tool.** **The Water Risk Assessment for the catchment area is available as Att.2.7.** **They have been evaluated as high, moderate or low and therefore prioritized accordingly.**
	1.6.2				
2.7.1	**1.7.1**	**Site risks and opportunities: list of site water related risks and actions to address the challenges**	☒	☐	**(MTB has a list of water related risks as those considered for the catchement area.)**
2.7.2	**1.7.2**	**Site risks and opportunities: list water related opportunities**	☒	☐	**MTB has developed "Water Stewardship Strategy and Plan.xls" which is a matrix that identifies opportunities for the site and stakeholders, evaluating the costs involved, benefits for different actions in order to get the opportunities identified:** - MTB is implementing a more sustainable water management by reducing, optimizing and recycling potable water use in production activities - In order to reduce discharge of production waste water, MTB has implemented the reuse of treated waste waters in feeding cooling towers, feeding steam boilers and primary process **In order to avoid contamination during waste water discharge**

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					and/or treatment: **- periodic and accurate maintenance of piping, storage tanks and waste water treatment plants are executed,** **- the use of hazardous substances during production processes regulated by correct storage/stockage modalities and** **- water quality controls on the discharged waters are executed by internal stakeholders.**
2.7.3		**Site risks and opportunities: analysis of potential savings/value creation that could result from actions to address the challenges. Look at the actions in the context of water quality, water related areas, water governance, etc.**	☒	☐	**Int the same matrix, there is a section for value creation, which includes a column for each of three pillars : environmental, economic and social value.**
	1.8.				
2		**Water Challenges (advanced)**			**Evidence and Scoring**
2.8		**Evidence that water data gathering (criteria 2.3) was jointly done by the client and other organisations in the catchment (public sector included). (4 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
2.9		**Evidence of water data gathering beyond the standard requirements, especially in highly data deficient environments. (3 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
2.10		**Copy of a study on projected future state conditions relative to quantitative and quality parameters and impacts on the site growth. (3 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
2.11		**Site water related supply chain with indirect water use amounts and site efforts to date. (7 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
2.12		**Site contribution to groundwater recharge and/or environmental flows restoration in coordination with relevant governmental agencies. (10 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
2.13		**Voluntary Social Impact**	☐	☐	**MTB were just not applied in this case, but the site could apply**

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		Assessment for the site with emphasis on water. (3 points)			it in future
3		Stewardship strategy and plan (core)			Comments/Evidence
3.1.1	2.2.1	Evidence of a system that periodically evaluates compliance with legal and regulatory requirements in criteria 2.3, together with names of those responsible.	☒	☐	A third-party conduct annual audits in order to verify legal compliance. The audit report for 2018 is available (Att.3.1.a). On a periodic basis, meetings amongst the EHS&S Department are carried out in order to highlight legal updates, KPI's, trainings etc. A copy of the 18.05.28 EHS&S department meeting memorandum is available (Att.3.1.c).
3.2.1	2.3.1	Stewardship strategy that contains water challenges within the catchment and risks for the site together with the site responses	☒	☐	MTB has developed a strategy document is updated each three years Att.3.2.a. AWS Strategy and Action Plan - 2019/2021 It includes water challenges of the catchment, water risks, opportunities, goals, actions, benefits, management, managers and timeline.
3.2.2	2.3.2	Stewardship plan that contains:	☒	☐	
a)		List of targets (as per criteria 2.7) and how continuous improvement and best practice are achieved. The targets need to be SMART	☒	☐	"AWS Strategy and Action Plan" document, is the AWS action plan and it has different action to implement for each goal and the achieved results.
b)		Proposed actions to achieve the targets and names of individuals responsible for each	☒	☐	The actions planned the names and individual managers for each are included per action in the "AWS Strategy and Action Plan" shown in the spreadsheet
c)		A budget for the proposed actions with a cost benefit analysis	☒	☐	MTB has identified costs and benefits for each action within the action plan "AWS Strategy and Action Plan". At the Action Plan there is also a column for the benefits and are aligned to the outcomes of water stewardship.
d)		Links to the desired results in terms of risks/opportunities, water stewardship outcome and shared water challenges	☒	☐	Each of the goals in the "AWS Strategy and Action Plan " are associated with their respective strategy, which are originated in the risks, challenges and opportunities.
3.3.1		Evidence of responsiveness and resilience to water related risks embedded in the site's incident response plan	☒	☐	MTB has an Emergency Response Plan in place (Att.3.3.a)
3.4.1	3.1.1	Evidence of notification to relevant catchment authority of the intention of the site to contribute to the objectives of the catchment plan	☒	☐	MTB involved and developed activities with catchement authorities as list in the the Stakeholder list doc.Confidential information)
	3.1.2				
3		Stewardship strategy and			Evidence and scoring

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		plan (advanced)			
3.5.1		Evidence that consensus on at least one of the site's targets has been achieved with the stakeholders. (7 points)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
3.6.1		Evidence of a plan, developed in coordination with public agencies and infrastructure management agencies, that includes water related adaptation strategies to mitigate climate change risks. (6 points)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4		Implementation of the water stewardship plan			
4.1.1	3.2.1	Evidence of compliance legal and regulatory requirements with regards to water balance, water management and Important Water related areas	☒	☐	The legal compliance is conform and no legal compliance deviations have been detected. Please refer to 3.1.1 and relative supporting documentation.
4.1.2	3.2.2	Evidence of efforts to provide safe drinking water and sanitation where stakeholders have an unmet human right	☒	☐	Italy is a country where this section is not necessary to justify.
4.2.1 and 4.2.2	3.3.1. And 3.3.2	Evidence that the site water balance targets are met. If in a water scarcity situation, also evidence that there is a continuous decrease in water withdrawals	☒	☐	MTB has carried out different water reduction actions, the most important things are: - Water reuse - Reduce the water consumption They are explained in the action plan.
4.2.3	3.3.3	Only in scarcity situations, evidence of no net increase in water scarcity	☒	☐	MTB does not plan to increase water consumption and water withdrawals from HERA. .
4.3.1	3.4.1	Evidence that shows that water quality targets are met	☒	☐	No significant risks regarding water quality have been identified.
4.3.2	3.4.2	For water quality stressed catchments only: evidence of continual improvement or best practice	☒	☐	The catchment area is not water quality-stressed. Nevertheless MTB conducts regular water quality analysis in order to verify legal compliance:
4.3.3		For water quality stressed catchments only and where the site wishes	☒	☐	HERA supplies and guarantees potable water quality in line with legislative requirements (Att.2.3.d). In addition, MTB performs periodical laboratory analysis to

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		to increase effluent levels of water quality parameters: evidence of no net degradation in water quality in the catchment			verify the status of the potable water supplied by HERA (Att.2.3.e).
4.4.1	3.5.1	Evidence that targets for the Important Water related Areas have been met	☒	☐	This criteria is not applicable as no important W.R.A are present on-site.
4.4.2		Where Important Water Related Areas is a shared water challenge, evidence that best practice are met.	☒	☐	This criteria is not applicable as no important W.R.A are present on-site.
4.5.1		Evidence of the site's on-going efforts to contribute to good catchment governance (evidence of coordination and cooperation with catchment management authorities)	☒	☐	In 2018 PMI engaged with INOGEN to support worldwide PMI facilities during AWS certification: - From February 2019, MTB engaged with Beatrice Bizzaro and Eugenio Capponi from HPC Italia for support and periodical evaluation of AWS template and supporting documents MTB has actively and positively contributed to catchment governance by: - Organizing workshops in local universities and high schools in order to raise awareness of water-related risks at catchment level - Organizing social initiatives with the local community (i.e. World Water and Clean Up Day) in order to promote conservation and safekeeping of the water resource at catchment level - Attending relevant meetings with catchment management authorities - Strengthening stakeholder's beliefs in sustainable water management and recycling practices
4.5.2		Only for weak water governance catchments: evidence of continual improvement/best practice	☒	☐	This criteria is not applicable for MTB.
4.6.1	3.7.1	Evidence that site product suppliers and water related service providers have been contacted and are taking actions to contribute to the water stewardship outcomes	☒	☐	MTB has involved the stakeholders and there has been meetings with them. The most immportant stakeholders attended to the audit meeting and all of them explained their point of view about the scarcity in the catchment. It is a starting point in order to increase awareness of people who live in the catchment on water scarcity.
	3.7.2				
4.7.1	3.6.1	List of actions to ensure WASH on site	☒	☐	During the site visit, it was confirmed that the workers, have access to safe water, sanitation and hygiene, as this is also a requirement of the legal regulations for factories in Italy.
	3.6.2				

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
4.8.1	3.8.1	Evidence and list of key owners of the water infrastructure and content of message that has been conveyed related to the site risks and shared water challenges	☒	☐	HERA,(private company which manages the infrastructure) In order to search, avoid and reduce leaks and spillages, HERA executes regular quality check The Consorzio della Bonifica Renana (Water Competent Authority) he Consorzio della Bonifica Renana is responsible for the governance and maintenance of the canals that surround the MTB facility (Canale Cassoletta, Canale St. Almaso Vecchio & Canale Allacciante Cassoletta - St. Almaso Vecchio) and other canals in the Valsamoggia area (Att.2.1.f). the Consorzio is not directly responsible of the qualitative analysis of the waters if the canal is not directly engaged in irrigation. The canals surrounding MTB are not used for irrigational purposes (Att.4.8). All infrastructures as WWTP and WTP, belong to MTB and these are maintenance by MTB
	3.9				
4		Implementation of water stewardship plan (advanced)			Evidence and scoring
4.9.1		Evidence of quantified improvements in water balance from site-set baseline date.	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.9.2		Evidence that best practice has been achieved with respect to the site's water balance targets as informed by stakeholders or industry benchmark. (8 points for both 4.9.1 and 4.9.2)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.10.1		Evidence that targets have been met with regards to site water quality	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.10.2		Evidence that best practice has been achieved with respect to the site's water quality targets as informed by stakeholders or industry benchmark. (8 points for both 4.10.1 and 4.10.2)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.11.1		Evidence of complete restoration of non-functioning or severely damages Important Water Related areas.	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.11.2		Evidence that best practice has been achieved with respect to the restoration of	☐	☐	MTB were just not applied in this case, but the site could apply it in future

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		Important Water Related Areas as informed by stakeholders or credible expert opinion (8 points for both 4.11.1 and 4.11.2)			
4.12.1		**Evidence of list of actions to strengthen water governance capacity as informed by stakeholder's consensus and public sector leadership recognition.**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.12.2		**Evidence of list of actions to reach best practice in water governance capacity as informed by stakeholder's consensus and public sector leadership recognition (8 points for both 4.12.1 and 4.12.2).**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.13.1		**List of efforts to contribute to the development of regional industrial water related benchmarking and spreading best practice (3 points)**	☐	☐	**MTB. were just not applied in this case, but the site could apply it in future**
4.14.1		**Any water saved by the site under criteria 4.2 has been reallocated for social and environmental needs.**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.14.2		**Legal contracts for the re-allocation of the saved water (6 points for both 4.14.1 and 4.14.2)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.15.1		**Collective actions to address shared water challenges: list all collective actions taken and the role played by the site**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.15.2		**Collective actions to address shared water challenges: quantified improvements (8 points for both 4.15.1 and 4.15.2)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
4.15.3		**Collective actions to address shared water challenges: stakeholders recognition that the site played a major role (6 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
4.16.1		Drive reduction of indirect water use in the supply chain: list suppliers and details on their engagement	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.16.2		Drive reduction of indirect water use in the supply chain: evidence of quantitative improvements of the suppliers (5 points for both 4.16.1 and 4.16.2)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.16.3		Drive reduction of indirect water use in the supply chain: Supplier based evidence that the site has played a major role in driving the reduction (2 points)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.17.1		Evidence of completion of one of the initiatives listed under 1.4 (3 points)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
4.18.1		List actions taken in the context of WASH (5 points)	☐	☐	MTB were just not applied in this case, but the site could apply it in future
5		Evaluation (core) "against the actions taken in the implementation of the plan". Expectation of such an evaluation at least annually. For the first implementation, look for evidence that these indicators are included in the plan.			
5.1.1	4.1.1	Post implementation data and discussion on performance (water risk)	☒	☐	Continual improvement in performance are demonstrated by the following Att.5.1.b - Att.5.1.d. In 2018, the KPI system for water consumption was devised to monitor and control all activities and projects related to water saving initiatives (Att.4.2.j).
5.1.2	4.1.2	Total amount of water related costs, cost saving and value creation with regards to the actions of criteria 3.2	☒	☐	The water related cost saving and value creation with regards to the actions of criteria 3.2 has been described in Att.3.2.c. Water saving initiative presentation.
5.1.3	4.1.3	Updated data for indicator 2.4.7 on catchment shared value creation	☒	☐	Through the management review meeting
5.2.1	4.2.1	Evidence of evaluation of water related emergencies and extreme	☒	☐	Through the management review meeting

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
		events (effectiveness of preventive and corrective measures) and inclusion of lessons learnt in the updated action plan			
5.3.1	**4.3.1**	**Feedback and commentaries from stakeholders on the site water stewardship performance and factor input in the updated action plan**	☒	☐	**MTB had several meetings with the stakeholder.** **MTB has collected their opinion and some actions have been developed.** **These actions are described in the Action Plan.**
5.4.1	**4.4.1**	**Update of the plan with the inputs from indicators 5.1.1, 5.1.2, 5.2.1, 5.3.1. Update does not apply for the first implementation/audit**	☒	☐	**It will be checked for the first surveillance audit.** **We are currently undergoing certification and implementing the AWS plan and strategy for the first time.** **The water stewardship and incident plan will be updated on a yearly basis and relevant changes/modifications will be made if required.**
5		**Evaluation (advanced) "against the actions taken in the implementation of the plan".**			**Evidence and Scoring**
5.5.1		**Review of the site water stewardship performance with executive team or board and provide evidence of meeting through minutes (3 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
5.6.1		**Evidence of a formal stakeholder's evaluation: minutes of meeting and recommendations for updated criteria 3.5 related to good governance, adequate flows, good water quality and functioning of Important Water Related Areas**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
6		**Disclosure and communication of performance (core)**			

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
6.1.1	5.1.1	Disclosure and public availability of summary related to the general governance structure of the site's management with names of those accountable for compliance with water related laws and regulations	☒	☐	MTB has a general governance structure of the site´s management with names of those accountable for compliance with water related laws and regulations.
6.2.1	5.2.1	Disclosure of summary of site's water stewardship results against the targets	☒	☐	See Appendix IV. MTB Communication Department is one of the strongest points in their AWS system
	5.3				MTB has engaged, on various occasions, with several stakeholders in order to actively disclose information on water stewardship certification and shared water challenges. This has been illustrated in the Communication Memorandum (See Att.3.4.a)
6.3.1	5.4.1	Disclosure and public availability of efforts to address shared challenges and report on actions taken to help address these challenges and engage stakeholders, including public sector agencies	☒	☐	
	5.4.2				
6.4.1	5.5.1	Document and make available a list of any site water compliance violation together with the corrective action implemented to prevent further occurrence.	☒	☐	MTB doesn't have any corrective action because they doesn´t have any violation about water legal requirements.
	5.5.2				
	5.5.3				
6.5.1		Evidence of awareness related initiatives at site level with dates of communications and, if possible, level of awareness	☒	☐	MTB Internal Communication unit has generated an Internal Communication Plan (Att.6.5.k) highlighting internal communication activities and awareness campaigns. These include: Dashboard Slides in the Info. Point areas (Att.6.5.e, Att.6.5.f & Att.6.5.l) : the presentations have been appreciated by employees and external visitors (Att.6.5.g) Business Updates: n.5, n.6, n.8, n.9 and n.10 (Att.6.5.p, Att.6.5.q, Att.6.5.h, Att.6.5.i & Att.6.5.v) INTERNOS and INOGEN magazine article (Att.6.5.u) Staff meetings: 5th April 2019 a meeting was held with SIMIC, SUEZ, LOGISTA, POLITECNICA and DUSSMANN about water-related challenges on-site (See 6.3) 21st of May 2019 a project update was held with MTB's Senior Management Team presenting the AWS Mock Audit results

Clause Standard Version 1.0	Clause Standard Version 2.0	Details	Yes	No	Comments/Evidence
					(Att.6.5.m & Att.6.5.r) **23rd of May 2019 a key message presentation on AWS project update was disclosed amongst MTB unit manager members i.e. Supply Chain (Att.6.5.n & Att.6.5.o)** **Video wall in the entrance area, with monthly highlights of KPI's water saving initiatives and outcomes, in order to reach out to visitors (over 3.000 visitors in 2018) as well as employees (Att.6.5.g)** **Video shooting on AWS certification journey with AWS team members Ing. Alberton, Ing. Iannacci, Dott.ssa Altruda and Dott. Palotta (Att.6.5.s & Att.6.5.t)**
6		**Disclosure and communication of performance (advanced)**			**Evidence and Scoring**
6.6.1		**Written evidence of disclosure of site water related risks to owners (4 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
6.6.2		**Disclosure of site water related risks to owners on a recognised disclosure framework (2 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
6.7.1		**Evidence of implementation of a programme for water education at catchment level and description of the programme (4 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**
6.8.1		**Evidence of discussion of the site water stewardship initiative in the organisation annual report, including references of benefits to stakeholders (2 points)**	☐	☐	**MTB were just not applied in this case, but the site could apply it in future**

APPENDIX 2

STAKEHOLDER MAP

Stakeholder Map

No.	Stakeholder (Name/Group)	Internal/External	Type of Stakeholder	Level of Interest
1	**Consorzio della Bonifica Renana**	External	Local Government Authority	HIGH
2	**HERA**	External	Service Provider	HIGH
3	**SUEZ**	Internal	Service Provider	HIGH
4	**SIMIC**	Internal	Service Provider	HIGH
5	**ARPAE/Regione Emilia Romagna**	External	Regional Environmental Protection Government Authority	HIGH
6	**Municipality of Valsamoggia**	External	Local Government Authority	HIGH
7	**Granarolo**	External	Company/production activities	HIGH
8	**Amarene Fabbri**	External	Company/production activities	HIGH
9	**Policlinico San'Orsola Malipighi**	External	Hospital	HIGH
10	**Iperceramica Bologna**	External	Company/production activities	HIGH
11	**Fiera di Bologna**	External	Fair/Exhibition	HIGH
12	**Aeroporto G. Marconi di Bologna**	External	Airport	HIGH
13	**Industrial Complex Bologna**	External	Company/production activities	HIGH
14	**Società Cooperativa Agricola Bazzanese**	External	Agricultural activitie	HIGH
15	**Cartiera Burgo di Mantova**	External	Company/production activities	HIGH
16	**Cantina Valsamoggia**	External	Agricultural activities	HIGH
17	**Terme San Luca**	External	Wellness SPA	HIGH
18	**Silla Carni S.r.l**	External	Company/production activities	HIGH
19	**Dino Corsini S.r.l**	External	Company/production activities	HIGH
20	**CIR Food**	Internal	Service Provider	MODERATE
21	**Confindustria**	External	Industrial Federation	MODERATE
22	**Clients/Customers**	External	MTB Clients/Customers	MODERATE
23	**Legambiente**	External	Association for Environmental Protection	MODERATE
24	**Majani**	External	Company/production activities	MODERATE
25	**Autorità del Bacino del Reno**	External	Local Environmental Authority	MODERATE
26	**Manifattura Birre Bologna**	External	Distillery	MODERATE
27	**Caseificio Olmi e Centomo**	External	Company/production activities	MODERATE
28	**DUSSMANN**	Internal	Service Provider	MODERATE
29	**Municipality of Anzola/Zola Predosa**	Exernal	Local Government Authority	MODERATE