

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)



Audit Number: AO-001302

### SITE DETAILS

Site: **Coca Cola FEMSA - Planta Managua**

Address: Kilometro 4.5 Carretera Norte, Barrio Domitila Lugo, 11011, Managua, NICARAGUA

Contact Person: CAROLINA GOMEZ OCHOA

AWS Reference Number: AWS-000717

Site Structure: Single Site

### CERTIFICATION DETAILS

Certification status: Certified Core

Date of certification decision: 2025-Jan-09

Validity of certificate: 2028-Jan-08

### AUDIT DETAILS

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

Audit Type(s): Initial Audit

Audit Start Date: 2024-Oct-09

Lead Auditor: Juan Carlos Cerón Vinueza

Audit team participants:

Juan Carlos Cerón, Lead Auditor

Site Participants:

Cesar Edmundo Olevar Castellon, Environmental Facility Coordinator

Carolina Gomez Ochoa, Sustainability Executive

Yaudicia Vargas Molina, Sustainability Specialist

Juan Diego Castro, Environmental Executive

Cristofer Alexander Masis Marengo, Environmental Analyst

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### ADDITIONAL INFO

**Summary of Audit Findings:** A total of 4 findings were raised during the certification audit, 0 major non-conformities, 4 minor non-conformities, 0 observations.

The Client is requested to perform a root cause analysis and define corrective actions for each of the non-conformities and to submit these to WSAS within 30 days of receipt of the audit report by 04 January 2025

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

The audit team recommends certification of Coca Cola FEMSA at Core level pending approval of the corrective actions plan .

#### CLOSURE OF FINDINGS AND CORRECTIVE ACTION PLAN:

The Client has successfully submitted the corrective action plans addressing all findings. Proof of implementation has been requested for the Minors and this will be evaluated during the Surveillance Audit. The client is requested to upload evidence of implementation prior to the Surveillance Audit.

**Scope of Assessment:** The scope of services covers the Initial certification audit for assessing conformity of Coca Cola FEMSA - Planta Managua against the AWS International Water Stewardship Standard Version 2.

The Coca-Cola FEMSA plant is located in the Department of Managua. In the Municipality of Managua, exactly at Kilometer 4.5 Carretera Norte. It is part of the industrial zone of the country that borders Lake Xolotlán at about 1.5 km. It has a total area of 54,398 m2 with a constructed area of 24,154 m2. It has six beverage production lines and three bottle blowing lines.

The plant has three wells for its water supply (Two wells are currently in operation, and the third is undergoing infrastructure rehabilitation) The treatment of industrial wastewater is carried out by contracting the water treatment services of the Nicaraguan Water and Sewer Company through the Managua Wastewater Treatment Plant (PTAS). The discharge from the plant is monitored by means of a Parshall channel that has a level meter that records the water flow online and tracks water volumes on a daily basis.

The facility is located in the Nicaragua Basin 69. The Coca-Cola FEMSA Plant is located within the Sub-Hydrographic Basin of Lake Managua. This sub-basin extends northwest of Lake Xolotlán to the south of the same, receiving contributions of water flow from these directions. The hydrographic sub-basin of Lake Managua is divided into four sub-basins: Sub-basin I, Sub-basin II, Sub-basin III and Sub-basin IV of Managua. The Coca-Cola FEMSA Plant is located in Sub-basin II of Managua. This sub-basin includes the central area of the Municipality of Managua, where the urban center of the city is located. Sub-basin II of Managua is bordered to the north by Lake Xolotlan which is its final discharge point.

The audit was conducted onsite on 09-10-2024 to 11-10-2024.

The onsite site visit included the assessment of visit water reception facilities (water well), water storage and purification area, production area, wastewater Parshall monitoring, water drains, stakeholder interviews and meetings to identify documents submitted as evidence.

### FINDINGS

#### NUMBER OF FINDINGS PER LEVEL

Minor 4

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### FINDING DETAILS

Finding No: TNR-013103  
Checklist Item No: 1.3.1  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2025-Oct-09  
Checklist item: Existing water-related incident response plans shall be identified.  
Findings: The site has identified drought as a water-related incident. No plans are evidenced for this issue.  
Corrective action: Review the methodology for identifying water-related incidents that may affect the site.

Finding No: TNR-013647  
Checklist Item No: 2.3.2  
Status: In Progress - CA plan approved  
Finding level: Minor  
Due date: 2025-Oct-09  
Checklist item: A water stewardship plan shall be identified, including for each target:  
- How it will be measured and monitored  
- Actions to achieve and maintain (or exceed) it  
- Planned timeframes to achieve it  
- Financial budgets allocated for actions  
- Positions of persons responsible for actions and achieving targets  
- Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.  
Findings: Coca Cola FEMSA - Planta Managua WSP has several inconsistencies:  
- The site has not linked the shared water challenges with targets  
- In most cases objectives are AWS requirements, legal requirements or risk action plans, rather than improvement targets. For example:  
1 Maintain monitoring of regulatory changes in order to establish relevant and timely actions in response to regulatory changes.  
2 Monitoring of the water management operational plan  
- Targets are not defined for each objective  
Corrective action: Adjust the sustainable water management plan according to the AWS standard guide, relating all goals with targets and other components of the plan.

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

Finding No:	TNR-013189
Checklist Item No:	5.3.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Oct-09
Checklist item:	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.
Findings:	The site's water stewardship performance has been communicated only to prioritised stakeholders. Also, according to the interviews carried out with the stakeholders, they indicated that they have not been communicated information relevant to the site's water stewardship performance
Corrective action:	Include within the communication strategy a risk assessment and possible actions to mitigate them according to the type of interested party (relationship and context).
Finding No:	TNR-013190
Checklist Item No:	5.4.1
Status:	In Progress - CA plan approved
Finding level:	Minor
Due date:	2025-Oct-09
Checklist item:	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.
Findings:	The site's shared water-related challenges and efforts made to address these challenges have not been disclosed for 2024. Also, according to the interviews carried out with the stakeholders, they indicated that they have not been communicated information relevant to shared challenges.
Corrective action:	Include within the communication strategy a risk assessment and possible actions to mitigate them according to the type of interested party (relationship and context).

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### Report Details

Report	Value
Report prepared by	Juan Carlos Cerón Vinuesa
Report approved by	Ozge Gokmen
Report approved on (Date)	3/12/2024

### Surveillance

**Proposed date for next audit**  
2025-Oct-15

**Comment** Initial audit was carried out according to the audit plan, the opening meeting of the event was held with staff from the organization in which the guidelines of the process were indicated, the closing meeting was held with staff from the organization in which the findings and next steps were communicated. Throughout the process, the auditor team complied with health and safety issues.  
At the end of the process, the audit objectives were satisfactorily met. The visit is made to the production and warehouse facilities.

### Stakeholder Announcements

Date of publication	Location
09/09/2024	Web Page
09/09/2024	Entrance Door
<b>Comment</b>	Coca Cola FEMSA - Planta Managua has published his Stakeholder Announcement through:  - Web page: <a href="https://coca-colafemsa.com/wp-content/uploads/2024/07/AWS-000717_CocaColaFEMSAManaguaNicaragua_StakeholderAnnouncement_Sept24_V3.0-ESPANOL.pdf">https://coca-colafemsa.com/wp-content/uploads/2024/07/AWS-000717_CocaColaFEMSAManaguaNicaragua_StakeholderAnnouncement_Sept24_V3.0-ESPANOL.pdf</a> (Doc 001 a) <a href="https://coca-colafemsa.com/sostenibilidad/nuestra-estrategia-de-sostenibilidad/nuestro-planet a/">https://coca-colafemsa.com/sostenibilidad/nuestra-estrategia-de-sostenibilidad/nuestro-planet a/</a> (Doc 001 b)  - Posting at the plant entrance gate (accessible to employees, contractors, suppliers and local community) (Doc 001 c)

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### Catchment Information

#### Catchment Information

The Managua Plant is located in Nicaragua's Basin 69, which is located within the Lake Managua Hydrographic Sub-Basin. This sub-basin extends northwest of Lake Xolotlán (Lake Managua) to the south of the lake, receiving water flow contributions from these directions.

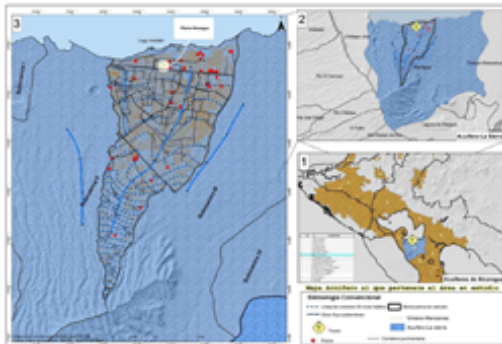
Sub-Basin of Lake Managua:

The Lake Managua hydrographic sub-basin is divided into four sub-basins: Sub-basin I, Sub-basin II, Sub-basin III and Sub-basin IV of Managua.

The Coca-Cola Femsa Plant is located in Sub-basin II of Managua. This sub-basin includes the central area of the Municipality of Managua, where the urban center of the city is located. Sub-basin II of Managua is bordered to the north by Lake Xolotlan, which is its final discharge point.

Aquifer:

Sub-basin II of Managua receives water contributions from the so-called Aquifer No. 6, Las Sierras. This is an open-type aquifer that receives contributions from precipitation, surface runoff and underground runoff. Its area is 575 m2 and covers the four sub-basins of Managua.



Acuifero 6 Las Sierras.png

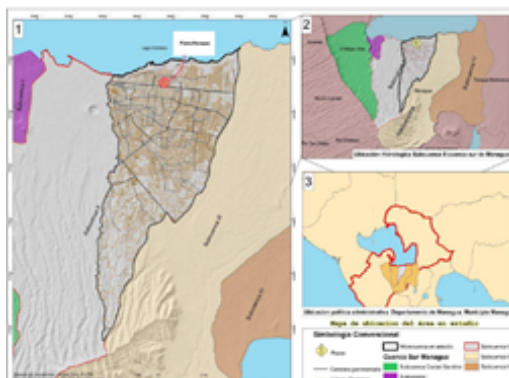


Cuenca Hidrografica 69.png

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



Subcuenca II de Managua.png



Subcuenca Lago Xolotlan.png



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### Client Description and Site Details

#### Client/Site Background

The Coca-Cola FEMSA plant is located in the Department of Managua. In the Municipality of Managua, exactly at Kilometer 4.5 Carretera Norte. It is part of the industrial zone of the country that borders Lake Xolotlán at about 1.5 km. It has a total area of 54,398 m<sup>2</sup> with a constructed area of 24,154 m<sup>2</sup>. It has six beverage production lines and three bottle blowing lines.

#### Water supply

- The plant has three wells for its water supply. Two wells are currently in operation, and the third is undergoing infrastructure rehabilitation. All three wells have their Water Use Authorization issued by the National Water Authority, valid until 2027. The wells have been named Well 1, Well 2, and Well 3; Well 1 is the one that is currently inactive.

#### - Water discharge and treatment

The treatment of industrial wastewater is carried out by contracting the water treatment services of the Nicaraguan Water and Sewer Company through the Managua Wastewater Treatment Plant (PTAS). The discharge from the plant is monitored by means of a Parshall channel that has a level meter that records the water flow online and tracks water volumes on a daily basis.

The Managua wastewater treatment plant has the capacity to process up to 180,000 m<sup>3</sup> of wastewater/day. The Coca-Cola FEMSA Nicaragua Manufacturing Plant has a maximum discharge flow rate, representing 0.5% of the plant's capacity

- Domestic wastewater is discharged into the municipal wastewater pipe network, which is independent of the pipe that collects industrial wastewater. Domestic wastewater goes to the municipal treatment plant to be treated



Managua Plant.png

### Summary of Shared Water Challenges

#### Summary of Shared Water Challenges




3 shared challenges have been identified together with their stakeholders (Other sectorial companies)

- Lack of access to government entities and limited institutional information related to water and sanitation projects / Shared with: companies in the sector / Priority: high
- Lack of participation of civil society organizations and the private sector in the development of water resource management plans / Shared with: industrial sector - civil society organizations / Priority: Medium
- Strengthening activities to preserve the good quality of water in Lake Xolotlán / Shared with: Private and public sector / Priority: Medium


# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

0.1 General Requirements for Single Sites, Multi-Sites and Groups	
0.1.1	<i>Eligibility Criteria</i>
0.1.1.1	<i>The site(s) occupy one catchment OR an exception has been granted.</i>
	Yes 
Comment	Coca Cola FEMSA - Planta Managua plant occupies Basin No. 69 San Juan de Nicaragua River, Sub Basin Managua lake, Sub Basin II Managua
0.1.1.2	<i>The scope of the proposed certification shall be under the control of a single management system.</i>
	Yes 
Comment	Coca Cola FEMSA - Planta Managua operates under a single management system
0.1.1.3	<i>The scope of the proposed certification shall be homogeneous with respect to primary production system, water management, product or service range, and the main market structures.</i>
	Yes 
Comment	Coca Cola FEMSA - Planta Managua is dedicated to the production of Carbonated and non-carbonated beverages

Audit Number: AO-001302

1	STEP 1: GATHER AND UNDERSTAND	
1.1	<i>Gather information to define the site’s physical scope for water stewardship purposes, including: its operational boundaries; the water sources from which the site draws; the locations to which the site returns its discharges; and the catchment(s) that the site affect(s) and upon which it is reliant.</i>	
1.1.1	<i>The physical scope of the site shall be mapped, considering the regulatory landscape and zone of stakeholder interests, including:</i> <ul style="list-style-type: none"><li>- Site boundaries;</li><li>- Water-related infrastructure, including piping network, owned or managed by the site or its parent organization;</li><li>- Any water sources providing water to the site that are owned or managed by the site or its parent organization;</li><li>- Water service provider (if applicable) and its ultimate water source;</li><li>- Discharge points and waste water service provider (if applicable) and ultimate receiving water body or bodies;</li><li>- Catchment(s) that the site affect(s) and is reliant upon for water.</li></ul>	<div> Yes</div>

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

- Comment Coca Cola FEMSA - Planta Managua plant has presented:
- Indicador 1.1 (111 a Indicador 1.1)  
Production plant, located at the coordinates (12°09'15"N 86°13'51"W),
  - Site Limits  
(Doc 111 a - page 7) The Coca-Cola FEMSA plant is located in the Department of Managua, in the Municipality of Managua, exactly at Kilometer 4.5 of the Northern Highway.
  - Water-related infrastructure  
(Doc 111 a - map 5) It is verified on the map:  
Water supply / The plant has three wells for its water supply (two wells are in operation, the third is undergoing infrastructure rehabilitation) Water is extracted from Aquifer No. 6, Las Sierras
  - Water discharge and treatment / Industrial wastewater is treated by contracting the water treatment services of the Nicaraguan Water and Sewer Company through the Managua Wastewater Treatment Plant (PTAS). The plant's discharge is monitored by a Parshall channel that has a level meter that records the water flow online and tracks water volumes on a daily basis.
  - (Doc 111 b - DRENAJES ) It is verified:  
Domestic wastewater is discharged into the municipal wastewater pipe network, which is independent of the pipe that collects industrial wastewater. Domestic wastewater goes to the municipal treatment plant to be treated.
  - Discharge points  
(Doc 111 c - Infraestructura Interna) It is verified:  
The water access infrastructure from the well to the initial treatments is verified, as well as the raw water treatment plant, storage and dispatch of water to production lines.
  - Ultimate receiving water body or bodies;  
(Doc 111 a - map 6) It is verified on the map:  
The location of the Managua water treatment plant is verified at (approx.) 5.5 km from the FEMSA Managua plant. The site has a contract for the provision of water treatment services with ENACAL for the treatment of industrial effluents. The receiving water body is Lake Managua.
  - Catchment(s) that the site affect(s) and is reliant upon for water (Doc 1 1 1 a page 2 to 6) .  
The site has identified its basin in the Basin No. 69 San Juan de Nicaragua River, Sub Basin Managua lake, Sub Basin II Managua and the aquifer 6 Las Sierras

**1.2** *Understand relevant stakeholders, their water related challenges, and the site's ability to influence beyond its boundaries.*

- 1.2.1** *Stakeholders and their water-related challenges shall be identified. The process used for stakeholder identification shall be identified. This process shall:*
- *Inclusively cover all relevant stakeholder groups including vulnerable, women, minority, and Indigenous people;*
  - *Consider the physical scope identified, including stakeholders, representative of the site's ultimate water source and ultimate receiving water body or bodies;*
  - *Provide evidence of stakeholder consultation on water-related interests and challenges;*
  - *Note that the ability and/or willingness of stakeholders to participate may vary across the relevant stakeholder groups;*
  - *Identify the degree of stakeholder engagement based on their level of interest and influence.*

  
Yes

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

**Comment** Coca Cola FEMSA - Planta Managua plant has presented:  
- 121 a Indicador 1.2.1 partes interesadas  
- 121 b Indicador 1.2.1 Matriz de poder

The site has presented a list of stakeholders that includes twenty-eight; they have grouped together some stakeholders such as government agencies, academia, NGOs, etc.  
The site has identified stakeholders by considering the physical scope and the site's ultimate water source and ultimate receiving water body or bodies  
The Site describes the roles of the different stakeholders, also, the site has described the relationship between the site and the stakeholders with an interest and influence.

The site has presented some efforts of stakeholder consultation:  
Sample: Doc 121 c Resumen Ejecutivo Consulta Partes Interesadas  
Coca-Cola FEMSA Plant has carried out a sustainability materiality study related to its stakeholders in February 2023. Water management has been taken into account within the environmental component and chambers and associations, clients, collaborators, organized groups, suppliers and contractors have been consulted for this exercise.

The site has make an analysis to identified relevant stakeholder groups including vulnerable, women, minority, and Indigenous people. According to the study there are not vulnerable groups in the 5km surrounding. (121 e ShB\_Resultados MARRCO KOF\_Managua\_20240709). Also, there are not indigenous groups in the Sub basin II Managua. (121 d mapa\_territorio\_indigenas)

The site has identify the degree of stakeholder engagement based on their level of interest and influence using a power matrix (121 b Indicador 1.2.1 Matriz de poder)

**1.2.2** *Current and potential degree of influence between site and stakeholder shall be identified, within the catchment and considering the site's ultimate water source and ultimate receiving water body for wastewater.*


  
Yes

**Comment** Coca Cola FEMSA - Planta Managua has presented:  
- 122 Indicador 1.2.2 Matriz de Influencia

The Site has established the current degree of influence of the stakeholders using the method: Influence and interest. According to the analysis the following stakeholders are prioritized:  
Key players: ECOLAB, ALPLA, ANA, Cerveceria, Cafe Soluble, CIRA - UNAN

**1.3** *Gather water-related data for the site, including: water balance; water quality, Important Water-Related Areas, water governance, WASH; water-related costs, revenues, and shared value creation.*

**1.3.1** *Existing water-related incident response plans shall be identified.*

  
in progress

**Comment** Coca Cola FEMSA - Planta Managua has presented:  
- 131 a indicador 1.3.1  
- 131 b ML-SC-RGNI0248\_\_PLAN\_DE\_EMERGENCIA\_2023\_(1)

Identified situations:  
- Section 6: spills  
- Section 8: Flood, hurricane, spill, earthquakes  
For all Water-related Incident. Specific steps that will be taken during and after a water-related incident are listed. Also, the site has identified resources (Anti-spill brigade, absorption systems and infrastructure (barriers))

Site has identified drought as a water-related incident. No plans are evidenced for this issue.  
**Finding No: TNR-013103**




**1.3.2** *Site water balance, including inflows, losses, storage, and outflows shall be identified and mapped*

  
Yes

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)





Audit Number: AO-001302

Comment	<p>Coca Cola FEMSA - Planta Managua plant has presented:</p> <ul style="list-style-type: none"> <li>- 132 Indicador 1.3.2, includes:</li> </ul> <p>Inflows: well water Storage: tank 1 and tank 2. Uses: CIP (cleaning of equipment), water treatment room, BIB preparation, syrup preparation, reverse osmosis, CIP (reverse osmosis), general water train sweep, rinser L7, rinser L8, syrup loss from finished product. Outflow: drainage of waste water (industrial) and domestic water Period: annual</p>	
1.3.3	<p><i>Site water balance, inflows, losses, storage, and outflows, including indication of annual variance in water usage rates, shall be quantified. Where there is a water-related challenge that would be a threat to good water balance for people or environment, an indication of annual high and low variances shall be quantified.</i></p>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua has presented:</p> <ul style="list-style-type: none"> <li>- 133 Indicador 1.3.3. includes</li> </ul> <p>The document includes data for: For water intake, there are flowmeters which are verified by the maintenance area. Data is recorded periodically to keep track of access to well water. For the water outlet, there are a parshal monitor. Data is recorded periodically to keep track the water discharge.</p> <p>The site has not a water-related challenge that would be a threat to good water balance for people or environment.</p>	
1.3.4	<p><i>Water quality of the site's water source(s), provided waters, effluent and receiving water bodies shall be quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be quantified.</i></p>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua has presented:</p> <ul style="list-style-type: none"> <li>- 134 Indicador 1.3.4</li> </ul> <ul style="list-style-type: none"> <li>- Water source (page 3 and 4) / includes the physicochemical parameters (pH, free Cl, conductivity, hardness) according to CAPRE standard for human water consumption. The site has presented an analysis of the semestral monitoring since 2019</li> <li>- Effluent (Page 5) / includes the physicochemical parameters (DQO, DBO, pH, SST, Oils ) according to the contract with the water treatnmnet supplier. The site has presented an analysis of the trimestral monitoring since 2019</li> <li>- Receiving water bodies</li> </ul> <p>The site does not have access to official information on the parameters of treated water discharged by the official supplier. However, the site has made an effort to quantify the water quality of the receiving body (see 153). Site has identified a risk about this issue (see 171)</p> <p>There is no water-related challenge related to internal water quality, all parameters comply with local regulations.</p>	
1.3.5	<p><i>Potential sources of pollution shall be identified and if applicable, mapped, including chemicals used or stored on site.</i></p>	 Yes

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302





Comment	<p>Coca Cola FEMSA - Planta Managua has presented: - 135 Indicador 1.3.5</p> <p>Coca Cola FEMSA - Planta Managua has identified potential sources pollution based in: a) Hazards given in their Safety Data Sheets (MSDS) b) areas that could have pootential water risk</p> <p>For the site potential sources pollution are raw materials (Chemicals, combustibles and waste storage)</p> <p>During the visit to the site, the important H&amp;S measures, which are rigorously implemented, could be observed and there are no reports of accidents. In the chemical storage areas, the MSDS are stored and the person responsible was trained to comply with local regulations. Hazardous Waste and waste storage areas are identified with risk signals to comply with local regulations.</p> <p>During the visit to the key areas, the audit team was required to wear safety equipment and was always accompanied by staff.</p>	
<b>1.3.6</b>	<i>On-site Important Water-Related Areas shall be identified and mapped, including a description of their status including Indigenous cultural values.</i>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant does not have Important Water-Related Areas on site.	
<b>1.3.7</b>	<i>Annual water-related costs, revenues, and a description or quantification of the social, cultural, environmental, or economic water-related value generated by the site shall be identified and used to inform the evaluation of the plan in 4.1.2.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua has presented (1 3 7 a Indicador 1.3.7) in which includes: Annual water-related costs: Water extraction, treated water, soft water, wastewater treatment (supplier), Water quality analysis, SVA study</p> <p>Also, the site has described social, cultural, environmental, or economic water-related value generated (Doc 1 3 7 b Indicador 1.3.7)</p>	
<b>1.3.8</b>	<i>Levels of access and adequacy of WASH at the site shall be identified.</i>	 Yes
Comment	<p>The self-assessment tool Ensures Access to Water, Sanitation and Hygiene (Doc 138) The organization has generated a survey for collaborators which consists of data related to access to water, access to sanitation and training on WASH issues.</p> <p>The organization has complied with access to potable water and access to sanitation (In the interview carried out with the production personnel, it is verified that there is drinking water at the work site and that the workers uses the nearby bathrooms), also the site has ensure WASH insfrestructure according to local legislation</p>	
<b>1.4</b>	<i>Gather data on the site's indirect water use, including: its primary inputs; the water use embedded in the production of those primary inputs the status of the waters at the origin of the inputs (where they can be identified); and water used in out-sourced water-related services.</i>	
<b>1.4.1</b>	<i>The embedded water use of primary inputs, including quantity, quality and level of water risk within the site's catchment, shall be identified.</i>	 Yes
Comment	The products used as inputs for production are not manufactured in the basin of origin as is presented in Document 141, site of origin in slide 5.	



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302




<b>1.4.2</b>	<i>The embedded water use of outsourced services shall be identified, and where those services originate within the site's catchment, quantified.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant have identified in document 142 the following outsourced services:</p> <ul style="list-style-type: none"> <li>- Outsourced internal services: Cleaning, building maintenance, equipment sanitation service, bottle blowing</li> <li>- Outsourced external services: WWTP and transport washing</li> </ul> <p>For the internal outsourced suppliers, they use the site's water to carry out their activities. The site has quantified the quantity of water used in these services in its water balance. For the other services (such as WWTP and car washing service) they have been identified.</p>	
<b>1.5</b>	<i>Gather water-related data for the catchment, including water governance, water balance, water quality, Important Water-Related Areas, infrastructure, and WASH</i>	
<b>1.5.1</b>	<i>Water governance initiatives shall be identified, including catchment plan(s), water-related public policies, major publicly-led initiatives under way, and relevant goals to help inform site of possible opportunities for water stewardship collective action.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant have identified in document 151 Indicador 1.5.1 the following governance initiatives (sample):</p> <ul style="list-style-type: none"> <li>- Legal requirements / ANA (National Water Authority)</li> <li>- Training workshops on water governance that aim to transmit information and exchange experiences in water governance, management mechanisms and the development of projects associated with a watershed management approach. / Global Water Partnerships</li> <li>- Improve the efficiency of water transmission and distribution and reduce operation and maintenance costs by supplying the equipment and materials necessary to reduce leaks and achieve energy efficiency, and build the reservoirs and thus contribute to the stabilization of drinking water services and to improving the living and health environment of the population. / ENACAL - JICA</li> </ul>	
<b>1.5.2</b>	<i>Applicable water-related legal and regulatory requirements shall be identified, including legally-defined and/or stakeholder-verified customary water rights.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant has presented "152 Indicador 1.5.2"</p> <p>The site describes the status of legal compliance (152 b Matriz_de_permisos_y_condicionantes). According to LEY N° 620 - LEY GENERAL DE AGUAS NACIONALES (National Water Law), the state is responsible to give the water rights to the people and organization. There is no customary water rights.</p> <p>The site also has presented:</p> <ul style="list-style-type: none"> <li>- 152 d Contrato_ENACAL_Tratamiento_de_Agua / Water disposal treatment contract</li> <li>- 152 e Resolución_RAE-ANA-294-2022_(Concesion_3_pozos) / 3 Water well concession</li> <li>- 152 g Autorización Ambiental de la Planta 2019 / Environmental Authorization</li> </ul>	
<b>1.5.3</b>	<i>The catchment water-balance, and where applicable, scarcity, shall be quantified, including indication of annual, and where appropriate, seasonal, variance.</i>	 Yes



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)



Audit Number: AO-001302

Comment	<p>The site has presented a document "153 a Indicador 1.5.3" in which the water balance for the basin is verified.</p> <p>The site has presented a Hydrogeological study with a micro-basin approach for the use of water through three wells at the facilities of Industria Nacional de Refrescos S.A. (153 b Estudio_Hidrogeologico FEMSA MANAGUA (26-Sep-2022))</p> <p>The information from the Sub basin Managua II, hydrographic unit Managua South Basin and La Sierra Aquifer is verified, according to the results: In the area of soil of molisol taxonomy, it is evident that the aquifer has a surplus of water, and this can be used for industrial use and domestic consumption (no water scarcity is identified).</p>	
1.5.4	<p><i>Water quality, including physical, chemical, and biological status, of the catchment shall be identified, and where possible, quantified. Where there is a water-related challenge that would be a threat to good water quality status for people or environment, an indication of annual, and where appropriate, seasonal, high and low variances shall be identified.</i></p>	 Yes
Comment	<p>The site has presented a document "1 5 4 Water quality Mexico 2023" in which the water quality data is presented for Xolotla Lake and Las Sierras aquifer is verified.</p> <p>For the Xolotla Lake Lake Xolotlan shows the results of water quality parameters within the ranges of a surface water body with no signs of contamination, which does not represent a challenge for the environment.</p> <p>For Las Sierras aquifer Water quality analyses reflect that in the study area the waters have acceptable physical-chemical properties for human and industrial consumption. The hydrochemistry is characterized by sodium bicarbonate type waters, which indicate that the water in the study area corresponds to young waters of recent infiltration and little geochemical evolution. (Hydrogeological Characterization of the northwestern part of the Las Sierras aquifer).</p> <p>According to the results, there is not a water-related challenge that would be a threat to good water quality status for people or environment</p>	
1.5.5	<p><i>Important Water-Related Areas shall be identified, and where appropriate, mapped, and their status assessed including any threats to people or the natural environment, using scientific information and through stakeholder engagement.</i></p>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant has presented "155 a Indicador 1.5.5)</p> <p>4 IWRAS have been identified and mapped Important Water-Related Areas: 1. Asososca Lagoon Nature Reserve 2. Nejapa Lagoon Nature Reserve 3. Tiscapa Lagoon Nature Reserve 4. Xolotlan Lake</p> <p>It is verified that a description and assess of the status of each IWRA has been made using mostly scientific information (official information - Doc 155 b, Doc 155 c, Doc 1).</p>	
1.5.6	<p><i>Existing and planned water-related infrastructure shall be identified, including condition and potential exposure to extreme events.</i></p>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant has presented: 156 Indicador 1.5.6</p> <p>Managua Wastewater Treatment Plant Condition and potential exposure: Managua's public water supply infrastructure is around 50 years old and is vulnerable to collapse due to earthquakes and floods.</p>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)



Audit Number: AO-001302

<b>1.5.7</b>	<i>The adequacy of available WASH services within the catchment shall be identified.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua plant has presented: 157 Indicador 1.5.7</p> <p>The city of Managua, where sub-basin II is located, has a drinking water coverage percentage of 91.54% with an average of 18 continuous hours of water availability according to the Water Information System portal of the government information agencies ENACAL, ANA and FISE (<a href="https://aguaysaneamiento.info.ni/nimbu/index.html">https://aguaysaneamiento.info.ni/nimbu/index.html</a>)</p> <p>According to available statistics, 55.4% of the population has access to sanitary sewerage</p>	
<b>1.6</b>	<i>Understand current and future shared water challenges in the catchment, by linking the water challenges identified by stakeholders with the site's water challenges.</i>	
<b>1.6.1</b>	<i>Shared water challenges shall be identified and prioritized from the information gathered.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua (161 Indicador 1.6.1 y 1.6.2)</p> <p>3 shared challenges have been identified together with their stakeholders (Other sectorial companies)</p> <ul style="list-style-type: none"> <li>- Lack of access to government entities and limited institutional information related to water and sanitation projects / Shared with: companies in the sector / Priority: high</li> <li>- Lack of participation of civil society organizations and the private sector in the development of water resource management plans / Shared with: industrial sector - civil society organizations / Priority: Medium</li> <li>- Strengthening activities to preserve the good quality of water in Lake Xolotlan / Shared with: Private and public sector / Priority: Medium</li> </ul>	
<b>1.6.2</b>	<i>Initiatives to address shared water challenges shall be identified.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua</p> <p>3 shared challenges have been identified together with their stakeholders (Other sectorial companies)</p> <ul style="list-style-type: none"> <li>- Lack of access to government entities and limited institutional information related to water and sanitation projects / Plan: Development of communication and rapprochement strategy</li> <li>- Lack of participation of civil society organizations and the private sector in the development of water resource management plans / Plan: Evaluate with FEMSA's legal department the possibility of making approaches with government agencies</li> <li>- Strengthening activities to preserve the good quality of water in Lake Xolotlan / Plan: Identify comprehensive initiatives for the preservation of the lake with interested companies</li> </ul>	
<b>1.7</b>	<i>Understand the site's water risks and opportunities: Assess and prioritize the water risks and opportunities affecting the site based upon the status of the site, existing risk management plans and/or the issues and future risk trends identified in 1.6.</i>	
<b>1.7.1</b>	<i>Water risks faced by the site shall be identified, and prioritized, including likelihood and severity of impact within a given timeframe, potential costs and business impact.</i>	 Yes
Comment	<p>Coca Cola FEMSA - Planta Managua (171 b Indicador 1.7.1 PPT explicacion WRA)</p> <p>The organization has identified risks for 2023 and 2024 in conjunction with its action plan using the WRA method.</p> <p>It is verified that the organization has defined the following risks</p> <ul style="list-style-type: none"> <li>-Access to water, sanitation and hygiene (WASH)-</li> <li>-Context-based water security</li> <li>-Water efficiency</li> </ul>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

<b>1.7.2</b>	<i>Water-related opportunities shall be identified, including how the site may participate, assessment and prioritization of potential savings, and business opportunities.</i>	 Yes
Comment	<p>The organization has identified opportunities for 2023 and 2024 in conjunction with its action plan using the WRA method.</p> <p>It is verified that the organization has defined the following risks</p> <ul style="list-style-type: none"> <li>-Access to water, sanitation and hygiene (WASH)-</li> <li>-Context-based water security</li> <li>-Water efficiency</li> </ul>	
<b>1.8</b>	<i>Understand best practice towards achieving AWS outcomes: Determining sectoral best practices having a local/catchment, regional, or national relevance.</i>	
<b>1.8.1</b>	<i>Relevant catchment best practice for water governance shall be identified.</i>	 Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- Participation in environmental fairs by institutions to promote environmental awareness with the participation of private initiatives.</li> <li>- Development of the water risk management plan through the WRA/SVA tool)</li> <li>- Empowering the Water Management Committee on issues related to water governance</li> <li>- Management routine for monitoring the water risk management plan and initiatives related to water management.</li> </ul>	
<b>1.8.2</b>	<i>Relevant sector and/or catchment best practice for water balance (either through water efficiency or less total water use) shall be identified.</i>	 Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- The site has jet activation technology in the sinks and bathrooms through an infrared sensor, which leads to lower water consumption.</li> <li>- The site has conducted leak detection studies.</li> <li>- The site has a protocol to reduce the frequency of equipment cleaning.</li> <li>- Dry cleaning on plant floors.</li> <li>- Water reuse projects: reuse of washing machine water, recirculation of water in pumping systems, reuse of condenser purge water and osmosis, recovery of final sanitation rinses in coal towers.</li> <li>- Improvement of water consumption measurement processes through flow meters for the main processes.</li> <li>- Change from wet lubrication to dry lubrication in some sections of production line transport.</li> </ul>	
<b>1.8.3</b>	<i>Relevant sector and/or catchment best practice for water quality shall be identified, including rationale for data source.</i>	 Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- The site has a protocol to reduce the frequency of cleaning equipment to reduce organic loads in cleaning effluents.</li> <li>- Execution of a project to remove solids from the purge of a water treatment plant to reduce the organic load of solids in wastewater discharges.</li> <li>- Routine inspection of rainwater protection to prevent contamination from discharges and surface runoff</li> </ul>	
<b>1.8.4</b>	<i>Relevant catchment best practice for site maintenance of Important Water-Related Areas shall be identified.</i>	 Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- PET waste recovery project that helps prevent plastic waste (bottles) from ending up in Lake Xolotlán.</li> <li>- Training for PET waste recovery project participants (collectors) on the preservation of water resources and waste management</li> </ul>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)




Audit Number: AO-001302

1.8.5	<i>Relevant sector and/or catchment best practice for site provision of equitable and adequate WASH services shall be identified.</i>	<div><div>✔</div><div>Yes</div></div>
Comment	<div>The site has presented the following practices:</div> <div><div>- There are a number of sanitary units that exceed the requirements indicated in the legislation.</div><div>- Develop a study to identify the problem of water security in the communities surrounding the operation facilities within the basin that verifies the need within the MARRCO scope, or that allows justifying an expansion of the scope for the execution of WASH projects.</div></div>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

2	STEP 2: COMMIT & PLAN - Commit to be a responsible water steward and develop a Water Stewardship Plan	
2.1	<i>Commit to water stewardship by having the senior-most manager in charge of water at the site, or if necessary, a suitable individual within the organization head office, sign and publicly disclose a commitment to water stewardship, the implementation of the AWS Standard and achieving its five outcomes, and the allocation of required resources.</i>	
2.1.1	<i>A signed and publicly disclosed site statement OR organizational document shall be identified. The statement or document shall include the following commitments:</i> <ul style="list-style-type: none"> <li>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</li> <li>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</li> <li>- That the site's stakeholders will be engaged in an open and transparent way</li> <li>- That the site will allocate resources to implement the Standard.</li> </ul>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant has presented (Doc 2 1 1 Statement Letter) in with the site includes the following commitment: <ul style="list-style-type: none"> <li>- That the site will implement and disclose progress on water stewardship program(s) to achieve improvements in AWS water stewardship outcomes</li> <li>- That the site implementation will be aligned to and in support of existing catchment sustainability plans</li> <li>- That the site's stakeholders will be engaged in an open and transparent way</li> <li>- That the site will allocate resources to implement the Standard.</li> </ul> The statement is signed by rafael Ramos (Technical manager) dated 18-09-2024	
2.2	<i>Develop and document a process to achieve and maintain legal and regulatory compliance.</i>	
2.2.1	<i>The system to maintain compliance obligations for water and wastewater management shall be identified, including:</i> <ul style="list-style-type: none"> <li>- Identification of responsible persons/positions within facility organizational structure</li> <li>- Process for submissions to regulatory agencies.</li> </ul>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant has presented (221 a Indicador 2.2) in with the site includes the following information: <ul style="list-style-type: none"> <li>- The management team responsible within the organizational structure in charge of monitoring regulatory compliance is the following: Manufacturing Manager, Head of Production, Head of Quality, Safety and Environment, Legal Executive, Corporate Affairs Specialist, Environmental Management Coordinator, Management Systems Coordinator</li> </ul> Also, the site has an ISO 14001:2015 certificate and a Process to legal evaluation in which there is a process for submissions to regulatory agencies. (Doc 221 b and 221 c)	
2.3	<i>Create a water stewardship strategy and plan including addressing risks (to and from the site), shared catchment water challenges, and opportunities.</i>	
2.3.1	<i>A water stewardship strategy shall be identified that defines the overarching mission, vision, and goals of the organization towards good water stewardship in line with this AWS Standard.</i>	 Yes

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

**Comment** Coca Cola FEMSA - Planta Managua plant has presented (231 Environmental Strategy Propuesta AWS version Plantas KOF actualizacion 2024) in which the site includes the following information:

- Strategy: Promoting a sustainable future. By strengthening our industry-leading environmental initiatives and underpinning our social programs, including community development and diversity and inclusion, with a strong corporate governance structure.
- Mission and vision: Ethics and governance, culture, human rights, diversity, equity and inclusion
- Goals: Achieve a water usage indicator (WUR) of 1.26 liters of water/liter of beverage by 2026.

**2.3.2** *A water stewardship plan shall be identified, including for each target:*

- *How it will be measured and monitored*
- *Actions to achieve and maintain (or exceed) it*
- *Planned timeframes to achieve it*
- *Financial budgets allocated for actions*
- *Positions of persons responsible for actions and achieving targets*
- *Where available, note the link between each target and the achievement of best practice to help address shared water challenges and the AWS outcomes.*

 in progress

**Comment** Coca Cola FEMSA - Planta Managua plant has presented (232 Plan de Gestión Sostenible del Agua Nicaragua.2024) in which the site includes the following information: Impact Area (Site/Basin), Objective, In coordination/Collaboration with, Actions, Measurement/Metric Unit, Frequency, Start date of the action, End date of the action, Cost US\$, Person responsible for the actionAWS Outcome, % Progress of the action, Observations

The plan has 17 objectives related to 5 outcomes.

The plan has several inconsistencies:

- The site has not linked the water shared challenges with each target
- Objectives are in must of the cases AWS requisite, legal requirements or risk action plans, sample:

1 Maintain monitoring of regulatory changes in order to establish relevant and timely actions in response to regulatory changes.

2 Monitoring of the water management operational plan

- Targets are not defined for each objective

1 For the action "Training on good hygiene and production practices" is specified, and the metric is expressed as "Number of people trained / Total number of people at the factory." No target has been identified to evaluated its performance

**Finding No: TNR-013647**

**2.4** *Demonstrate the site's responsiveness and resilience to respond to water risks*

**2.4.1** *A plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies shall be identified.*






 Yes

**Comment** Coca Cola FEMSA - Planta Managua plant has not identified a plan to mitigate or adapt to identified water risks developed in co-ordination with relevant public-sector and infrastructure agencies.

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302




3	STEP 3: IMPLEMENT - Implement the site's stewardship plan and improve impacts	
3.1	<i>Implement plan to participate positively in catchment governance.</i>	
3.1.1	<i>Evidence that the site has supported good catchment governance shall be identified.</i>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant has presented: - Formation of the water management team / formed in May 2024 with FEMSA Managua personnel for water management inside and outside the plant - Identification of community relations actions (WASH) by applying the MARRCO method - Participation in the Expo-Ambiente Environmental Fair. / June 2024 "Every climate action counts, water for all." / Participants: Managua City Hall, private company, public company, educational sector	
3.1.2	<i>Measures identified to respect the water rights of others including Indigenous peoples, that are not part of 3.2 shall be implemented.</i>	 Yes
Comment	There are no indigenous peoples settled in the sub-basin of Lake Managua. The local population is predominantly urban, and its access to drinking water and sanitary sewage is provided by the Nicaraguan Water and Sewer Company ENACAL, whose wells are located outside the urban perimeter of the city and within the limits of the sub-basin of Lake Managua.	
3.2	<i>Implement system to comply with water-related legal and regulatory requirements and respect water rights.</i>	
3.2.1	<i>A process to verify full legal and regulatory compliance shall be implemented.</i>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant has presented: - 321 a ML-SC-PR0541 IRL0 V5 INARSA / legal evaluation procedure - 321 c FEMSA NICARAGUA - Evaluación de Requisitos Legales Ambiente, SySO y Calidad 2023 / Legal evaluation report Also, the site has presented: - 321 b CERTIFICATE - ISO 14001 - COCA COLA FEMSA DE COSTA RICA, S.A. / ISO Certificate - 321 d Matriz de permisos y condicionantes / Legal matrix	
3.2.2	<i>Where water rights are part of legal and regulatory requirements, measures identified to respect the water rights of others including Indigenous peoples, shall be implemented.</i>	 Yes
Comment	Water rights are not included in the water use permits or local legislation  However, there are no indigenous peoples settled in the sub-basin of Lake Managua.  The local population is predominantly urban, and its access to drinking water and sanitary sewage is provided by the Nicaraguan Water and Sewer Company ENACAL, whose wells are located outside the urban perimeter of the city and within the limits of the sub-basin of Lake Managua.	
3.3	<i>Implement plan to achieve site water balance targets.</i>	
3.3.1	<i>Status of progress towards meeting water balance targets set in the water stewardship plan shall be identified.</i>	 Yes



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302





Comment	For 2024, one action have been presented: - Reduce and optimize the volume of water used in production WUR / According to the sustainable water plan, the water consumption indicator (WUR) had been set for the year 2023, and 2024. - Static and dynamic well level measurements are performed / Tarjet: 1 monitoring / Evidence: Nov 2023	
<b>3.3.2</b>	<i>Where water scarcity is a shared water challenge, annual targets to improve the site's water use efficiency, or if practical and applicable, reduce volumetric total use shall be implemented.</i>	 Yes
Comment	There is no water scarcity in the basin. Howevwe the site has an indicator of water consupction WUR (See 331)	
<b>3.3.3</b>	<i>Legally-binding documentation, if applicable, for the re-allocation of water to social, cultural or environmental needs shall be identified.</i>	 Yes
Comment	The Managua plant does not reallocate water for social, industrial or environmental needs, as Nicaraguan legislation does not contemplate this legal instrument within the scope of water management.	
<b>3.4</b>	<i>Implement plan to achieve site water quality targets</i>	
<b>3.4.1</b>	<i>Status of progress towards meeting water quality targets set in the water stewardship plan shall be identified.</i>	 Yes
Comment	For 2024, the site has presented for water quality: - Prevention of aquifer contamination / Activity: project to re-roof the well areas, warehouses and production areas / Metric: 11980.71 / Status: in execution (progress schedule verified) / 341 e Cronograma Ejecución Proyectos Techos - Prevention of aquifer contamination / Activity: inspection of environmental conditions of potential contamination points, the physical state of secondary containment, anti-spill kits, hazardous product storage, rainwater protection. / Metric: 12 inspections per year / Status: Inspection records are verified until August 2024 (341 f Puntos de contaminación)	
<b>3.4.2</b>	<i>Where water quality is a shared water challenge, continual improvement to achieve best practice for the site's effluent shall be identified and where applicable, quantified.</i>	 Yes
Comment	According to the physicochemical analyses of Lake Xolotlan, no impacts on its quality have been observed, therefore there is no shared challenge related to water. However, the Plant has implemented projects to improve the characteristics of its effluents: - A project is being developed for the recovery of water from the purge sludge of the process water treatment system.	
<b>3.5</b>	<i>Implement plan to maintain or improve the site's and/or catchment's Important Water-Related Areas.</i>	
<b>3.5.1</b>	<i>Practices set in the water stewardship plan to maintain and/or enhance the site's Important Water-Related Areas shall be implemented.</i>	 Yes
Comment	Coca Cola FEMSA - Planta Managua plant has not Important Water-Related Areas on site.	
<b>3.6</b>	<i>Implement plan to provide access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers at all premises under the site's control.</i>	
<b>3.6.1</b>	<i>Evidence of the site's provision of adequate access to safe drinking water, effective sanitation, and protective hygiene (WASH) for all workers onsite shall be identified and where applicable, quantified.</i>	 Yes



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)





Audit Number: AO-001302

Comment	<p>The site presents as evidence the document "361 Indicador 3.6.1.</p> <p>The site has generated a graph with the values obtained, which reflect the good conditions of access to WASH. During the tour of the site facilities, the good condition of the sanitary facilities and access to water was verified.</p> <p>For 2024, some actions related to improve WASH have been presented:</p> <ul style="list-style-type: none"> <li>-Easy access and supports in bathrooms for people with disabilities.</li> <li>-Handwashing procedures at critical points and handwashing campaigns</li> <li>-The site has 7 hydration points to supply water to FEMSA operating personnel and contractors, located at different points in the plant.</li> </ul>	
<b>3.6.2</b>	<i>Evidence that the site is not impinging on the human right to safe water and sanitation of communities through their operations, and that traditional access rights for indigenous and local communities are being respected, and that remedial actions are in place where this is not the case, and that these are effective.</i>	 Yes
Comment	<p>The plant does not affect the human right to drinking water as it has its own extraction wells which are monitored to ensure the volume assigned in the concession permit.</p> <p>The community uses the water supply from the public service company, which is extracted outside the area of influence of the plant.</p> <p>By not using the public water supply, the plant does not affect the water distribution system to the population, as it does not affect pumping points, pressure or water volumes.</p>	
<b>3.7</b>	<i>Implement plan to maintain or improve indirect water use within the catchment:</i>	
<b>3.7.1</b>	<i>Evidence that indirect water use targets set in the water stewardship plan, as applicable, have been met shall be quantified.</i>	 Yes
Comment	For production, the use of primary inputs is identified, which are provided by external suppliers outside the hydrographic basin, which is why indirect water use objectives have not been defined for them.	
<b>3.7.2</b>	<i>Evidence of engagement with suppliers and service providers, as well as, when applicable, actions they have taken in the catchment as a result of the site's engagement related to indirect water use, shall be identified.</i>	 Yes
Comment	<p>The plant has identified a service provider, which provides car and delivery truck washing. Efforts have been made to contact this service provider to find out about its water consumption and washing process.</p> <p>Coordination with the service provider to find out about its water consumption and water-related activities has been established in the sustainable water management plan.</p> <p>Other identified providers are the food service provider for the cafeteria and the blowing plant, who work within the plant and whose consumption is included in the plant's water balance.</p>	
<b>3.8</b>	<i>Implement plan to engage with and notify the owners of any shared water-related infrastructure of any concerns the site may have.</i>	
<b>3.8.1</b>	<i>Evidence of engagement, and the key messages relayed with confirmation of receipt, shall be identified.</i>	 Yes

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)


Audit Number: AO-001302

Comment	<p>Coca Cola FEMSA - Planta Managua has not any shared water-related infrastructure. However, the site has a method to engage the water authority (owner o the legal rigths):</p> <ul style="list-style-type: none"> <li>- Communications are currently being made with the National Water Authority (ANA) for the presentation of compliance reports to the conditions of the Administrative Resolution RAE-ANA-DGRH-294-2022 Renewal of the Concession Title for the Use of Groundwater from Three (3) Wells in Favor of the National Soft Drinks Industry SA (INARSA).</li> <li>- The other communication that is had is about the presentation of the wastewater monitoring plan that is presented to the Nicaraguan Water and Sewer Company (ENACAL), responsible for the administration of the Managua Wastewater Treatment Plant.</li> </ul>		
<b>3.9</b>	<i>Implement actions to achieve best practice towards AWS outcomes: continually improve towards achieving sectoral best practice having a local/catchment, regional, or national relevance.</i>		
<b>3.9.1</b>	<i>Actions towards achieving best practice, related to water governance, as applicable, shall be implemented.</i>		Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- WUR Water Management Committee</li> <li>Structuring and launching the WUR Water Management Committee</li> <li>- Participating in environmental fairs</li> <li>Participating in the EXPOAMBIENTE fair to disseminate water management activities with different sectors</li> </ul>		
<b>3.9.2</b>	<i>Actions towards achieving best practice, related to targets in terms of water balance shall be implemented.</i>		Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- Jet activation technology in the sinks and bathrooms by means of an infrared sensor.</li> <li>- Leak detection studies.</li> <li>- Protocol to reduce the frequency of cleaning the equipment. / In conjunction with the quality area, actions are maintained to evaluate the optimal sanitation frequencies in the operation to reduce water consumption</li> <li>- Dry cleaning on plant floors. / Strengthen staff awareness to carry out dry cleaning, provide them with materials and knowledge</li> <li>- Water recovery projects are implemented. / Identify projects for reuse and recovery of water to supply the plant supply network and reduce extractions in the wells.</li> </ul>		
<b>3.9.3</b>	<i>Actions towards achieving best practice, related to targets in terms of water quality shall be implemented.</i>		Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- Reduce the frequency of equipment sanitation / Implement sanitation extension protocols. Improve the quality of the site's wastewater. / Implement a project to recover sludge purge water from the PTAP.</li> <li>- Raise staff awareness of compliance with KORE specifications to prevent product spills due to the generation of non-conforming products.</li> <li>- Inspection of the physical condition of the storm drain is carried out / Comply with the inspection routine for rainwater protection.</li> <li>- Inspection of the condition of secondary containment is carried out. / Comply with the inspection routine for the condition of secondary containment.</li> </ul>		
<b>3.9.4</b>	<i>Actions towards achieving best practice, related to targets in terms of the site's maintenance of Important Water-Related Areas shall be implemented.</i>		Yes
Comment	<p>The site has presented the following practices:</p> <ul style="list-style-type: none"> <li>- Post-consumer PET plastic recovery project that helps prevent plastic waste (bottles) from ending up in Lake Xolotlán.</li> <li>- Training for participants in the PET plastic waste recovery project (collectors) on the preservation of water resources and waste management.</li> </ul>		

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

3.9.5	Actions towards achieving best practice related to targets in terms of WASH shall be implemented.	 Yes
Comment	The site has presented the following practice: Develop a study to identify water security issues in communities surrounding the operation facilities within the basin that verifies the need within the MARRCO scope, or that justifies an expansion of the scope for the execution of WASH projects.	



Audit Number: AO-001302

Table with 4 columns: ID, Criteria, Evidence/Comments, and Status. Row 1: 4, STEP 4: EVALUATE - Evaluate the site's performance. Row 2: 4.1, Evaluate the site's performance in light of its actions and targets from its water stewardship plan and demonstrate its contribution to achieving water stewardship outcomes. Row 3: 4.1.1, Performance against targets in the site's water stewardship plan and the contribution to achieving water stewardship outcomes shall be evaluated. Row 4: Comment, Coca Cola FEMSA - Planta Managua has presented a YTD analysis (September 2024): - Performance against targets in the site's water stewardship plan: 41% - Contribution to achieving water stewardship outcomes: Governance: 50% Water Balance: 20% Quality: 44% IWRAs: 15% WASH: Row 5: 4.1.2, Value creation resulting from the water stewardship plan shall be evaluated. Row 6: Comment, According to the site analysis, Coca Cola FEMSA - Planta Managua has presented saving 2.5 M Córdoba in 2024 (Jun 2024) Row 7: 4.1.3, The shared value benefits in the catchment shall be identified and where applicable, quantified.


# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

Comment	Site has presented: 413 Valor Compartido Agua Cuenca	
	<p>The shared value benefits in the catchment identified are:</p> <ul style="list-style-type: none"> <li>- Understand the needs and requirements for maintaining the water conditions of the basin, taking into account the risks of water supply and conservation.</li> <li>- Generate efficient water consumption actions that directly impact the reduction of water extractions and discharges, taking into account the maintenance of the water balance of the basin</li> <li>- Generate and share information on water levels among the different actors in the water sector and interested parties, which allows the design of water management plans updated to the reality of the basin as actions to address water risks.</li> <li>- Maintain updated information that allows studying the behavior and changes in the quality patterns of the different water sources in the basin, which allows generating actions in the face of possible changes</li> <li>- Share activities and actions between civil society, governmental and non-governmental organizations that work on water management activities to define a joint water conservation strategy</li> <li>- Ensure efficient water consumption, avoiding unnecessary overexploitation of the aquifer.</li> <li>- Avoid potential environmental incidents in the basin that may generate changes in the quality of water from the extraction, supply and recharge sources, through appropriate means of storage of hazardous substances and comprehensive waste management</li> <li>- Generate information related to water consumption, as well as awareness in the sustainable use of water that allows creating awareness in the short and medium term of the intrinsic value of water at a social and environmental level.</li> <li>- Reduce water extractions contributing to the stability of water tables and avoid overexploitation of the basin, reducing the risks of lowering water tables</li> <li>- Guarantee the environmental conditions of the IWRAS as sources of water recharge and sustainability of the basin, collaborating in its conservation and cleaning through support activities and volunteer work days.</li> <li>- Guarantee WASH conditions among employees, emphasizing awareness and replication of actions among their families and community bases</li> <li>- Establish a strategy among suppliers regarding the economic, social and environmental value of water to establish reduction objectives through efficient use of water.</li> <li>- Reduce water extraction, effluent generation and production of liquid waste derived from operations, reducing potential environmental impacts by eliminating approximately 954 kilograms of solids from wastewater</li> <li>- Determine the quality of wastewater to define the best available practices for its treatment and purification.</li> </ul>	
4.2	<i>Evaluate the impacts of water-related emergency incidents (including extreme events), if any occurred, and determine the effectiveness of corrective and preventative measures.</i>	
4.2.1	<i>A written annual review and (where appropriate) root-cause analysis of the year's emergency incident(s) shall be prepared and the site's response to the incident(s) shall be evaluated and proposed preventative and corrective actions and mitigations against future incidents shall be identified.</i>	 Yes
Comment	<p>It is indicated by the audited team that there have been no accidents or incidents related to their emergency situations in 2023 and 2024</p> <p>If there is an incident related to water, the site has an Incident Report record which includes a root cause analysis</p>	
4.3	<i>Evaluate stakeholders' consultation feedback regarding the site's water stewardship performance, including the effectiveness of the site's engagement process.</i>	
4.3.1	<i>Consultation efforts with stakeholders on the site's water stewardship performance shall be identified.</i>	 Yes

Audit Number: AO-001302

Comment	<p>During the 2022-2023 period, stakeholder consultation was carried out through a study conducted by Ernest and Young to understand their interests and expectations.</p> <p>The result of the consultations with stakeholders was reflected in the following documents: Expectations and opportunities in sustainability: perspective of the Coca - Cola FEMSA community Mapping, prioritization and approach to Coca - Cola FEMSA stakeholders</p> <p>The plant developed a stakeholder consultation project, developed in 3 stages:</p> <ul style="list-style-type: none"><li>- The analysis of internal and external context: Where sources of information to be used in the consultation study were identified.</li><li>- Consultation with interested parties</li><li>- Analysis of ESG best practices</li><li>- Sites water performance</li></ul> <p>Currently(2024), the KOF corporation is deploying the dual materiality study for Coca-Cola FEMSA, which includes the operation of the Managua Plant, where relevant actors were identified and access to the survey was shared. The project is in the process of execution, in the data collection stage.</p>
4.4	<p><i>Evaluate and update the site's water stewardship plan, incorporating the information obtained from the evaluation process in the context of continual improvement.</i></p>
4.4.1	<p><i>The site's water stewardship plan shall be modified and adapted to incorporate any relevant information and lessons learned from the evaluations in this step and these changes shall be identified.</i></p> <div> Yes</div>
Comment	<p>Coca Cola FEMSA - Planta Managua has presented a current version for the period 2024 of its WSP. The site has adapted its 2024 plan with new objectives considering the availability of resources and its achievements from the previous plan</p>

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)





Audit Number: AO-001302

5STEP 5: COMMUNICATE & DISCLOSE - Communicate about water stewardship and disclose the site's stewardship efforts		
5.1	Disclose water-related internal governance of the site's management, including the positions of those accountable for legal compliance with water-related local laws and regulations.	
5.1.1	The site's water-related internal governance, including positions of those accountable for compliance with water-related laws and regulations shall be disclosed.	<div><div></div>Yes</div>
Comment	Site has presented a sign with the positions of AWS managers in the organization and a web page site ( <a href="https://coca-colafemsa.com/acerca-de/presencia/?pais=nicaragua">https://coca-colafemsa.com/acerca-de/presencia/?pais=nicaragua</a> ) in which the positions of those persons accountable for compliance with water-related laws and regulations are available	
5.2	Communicate the water stewardship plan with relevant stakeholders.	
5.2.1	The water stewardship plan, including how the water stewardship plan contributes to AWS Standard outcomes, shall be communicated to relevant stakeholders.	<div><div></div>Yes</div>
Comment	<p>The Water Stewardship Plan including initial information on how it contributes to AWS Standard outcomes have been communicated to relevant stakeholders wuth the communicational strategy.</p> <p>The site has prepared a communication plan with stakeholdes (521 c Matriz de Comunicación con Partes Interesadas)</p> <p>Also, the site has communicated how the water stewardship plan contributes to AWS Standard outcomes in his Sustainability Memory (<a href="https://coca-colafemsa.com/wp-content/uploads/2024/03/KOF-AR-2023-SPA.pdf">https://coca-colafemsa.com/wp-content/uploads/2024/03/KOF-AR-2023-SPA.pdf</a>)</p>	
5.3	Disclose annual site water stewardship summary, including: the relevant information about the site's annual water stewardship performance and results against the site's targets.	
5.3.1	A summary of the site's water stewardship performance, including quantified performance against targets, shall be disclosed annually at a minimum.	<div><div></div>in progress</div>
Comment	<p>The site has presented a management revision dated August 2024 which the WSP from 2023 and 2024 and its results were communicated to top management and shareholders. Also, the site has prepared a communication strategy with MARRCO results to send the information to the prioritized stakeholders.</p> <p>However, the site's water stewardship performance has not been communicated to other stakeholders. Also, according to the interviews carried out with the stakeholders, they indicated that they have not been communicated information relevant to the site's water stewardship performance</p> <p><b>Finding No: TNR-013189</b></p>	
5.4	Disclose efforts to collectively address shared water challenges, including: associated efforts to address the challenges;engagement with stakeholders; and co-ordination with public-sector agencies.	
5.4.1	The site's shared water-related challenges and efforts made to address these challenges shall be disclosed.	<div><div></div>in progress</div>
Comment	<p>The site's shared water-related challenges and efforts made to address these challenges have not been disclosed for 2024, the site has prepared a communication strategy for 2025. Also, according to the interviews carried out with the stakeholders, they indicated that they have not been communicated information relevant to shared challenges.</p> <p><b>Finding No: TNR-013190</b></p>	

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

<b>5.4.2</b>	<i>Efforts made by the site to engage stakeholders and coordinate and support public-sector agencies shall be identified.</i>	 Yes
Comment	The site has presented information related to the efforts made to engage ANA (National Water Agency) and the community to	
<b>5.5</b>	<i>Communicate transparency in water-related compliance: make any site water-related compliance violations available upon request as well as any corrective actions the site has taken to prevent future occurrences.</i>	
<b>5.5.1</b>	<i>Any site water-related compliance violations and associated corrections shall be disclosed.</i>	 Yes
Comment	It is indicated by the audited team that there have been no water-related compliance violations in 2023 and 2024	
<b>5.5.2</b>	<i>Necessary corrective actions taken by the site to prevent future occurrences shall be disclosed if applicable.</i>	 Yes
Comment	It is indicated by the audited team that there have been no water-related compliance violations in 2023 and 2024	
<b>5.5.3</b>	<i>Any site water-related violation that may pose significant risk and threat to human or ecosystem health shall be immediately communicated to relevant public agencies and disclosed.</i>	 Yes
Comment	It is indicated by the audited team that there have been no water-related compliance violations in 2023 and 2024	



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

### Photographic Evidence from Audit

✓  
Yes



Discharge water monitoring.jpeg



Harzarous waste storage.jpeg



Chemicals storage.jpeg

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



Water well.jpeg



Parshall.jpeg



Non hazardous waste management.jpeg



**WSAS**

2 Quality Street North Berwick, EH39 4HW, UNITED KINGDOM

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

Oil storage.jpeg



Chemicals storage 2.jpeg



Oil water treatment system.jpeg



MSDS.jpeg

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



Monitoring system.jpeg



WASH 4.jpeg

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



Staff drinking water 2.jpeg



WASH 3.jpeg



Staff drinking water 1.jpeg



# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302



WASH 2.jpeg



WASH 1.jpeg

### Upgrade or Downgrade of Certification

#### Justification for Upgrade or Downgrade

Not applicable / Initial Audit

Comment Not applicable / Initial Audit

#### Summary of Evidence which led to change


Not applicable / Initial Audit

Comment Not applicable / Initial Audit

# CERTIFICATION REPORT

## Alliance for Water Stewardship (AWS)

Audit Number: AO-001302

Previous Findings		
	<i>All non-conformities raised in the previous audit have been satisfactorily closed.</i>	
Comment	Not applicable / Initial Audit	N/A