



# 2025

## ALLIANCE FOR WATER STEWARDSHIP SUMMARY

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**JT International  
Asia Manufacturing  
Corporation**



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**Glenn Leandrew Pitogo**



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## INTRODUCTION

JT International Asia Manufacturing Corporation (JTI AMC) recognizes water as an essential resource that sustains life and enables residential, commercial, and industrial activities. As communities and operations continue to grow, reliable water access must be sustained to meet increasing demand and support continued development.

Water is integral to our operations, supporting the effective operation of production facilities and the manufacture of our products. At JTI AMC, we recognize access to clean water as a fundamental human right and affirm that it should be available to all in a fair and equitable manner.

In recent years, awareness of sustainability and water management has continued to grow, particularly as many regions face increasing water-related challenges. These circumstances underscore the need for responsible, coordinated action to safeguard the water cycle and support long-term resource stewardship.

Accordingly, JTI AMC is committed to promoting water use that is socially equitable, environmentally responsible, and economically beneficial. Through our compliance with the Alliance for Water Stewardship standard, we continue to advance sustainable water management across the watersheds in which we live and operate.

# ALLIANCE FOR WATER STEWARDSHIP

## What are AWS Outcomes?

According to the AWS Standard, we have applied and fulfilled the structure of the AWS International Water Stewardship Standard which built around five steps:

1. Gather and understand: Gather data to understand shared water challenges and water risks, impacts and opportunities.
2. Commit and plan: Commit to be a responsible water steward and develop a water stewardship plan.
3. Implement: Implement the site's stewardship plan and improve impacts.
4. Evaluate: Evaluate the site's performance.
5. Communicate and disclose: Communicate about water stewardship and disclose the site's stewardship efforts.

Each step consists of number of criteria to be addressed, each criteria having one or more indicators for compliance. There are 'core' indicators, representing the minimum requirement, and 'advanced' indicators, to achieve higher levels of water stewardship status and to promote continual improvement.

The implementation of the standard is intended to achieve five main outcomes for the site, and it's defined physical scope, such as:

1. Good water governance
2. Sustainable water balance
3. Good water quality status
4. Important water related areas
5. Safe water, sanitation, and hygiene for all (WASH)



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# ALLIANCE FOR WATER STEWARDSHIP

## Steps

*Step 1*  
GATHER &  
UNDERSTAND

01

### GATHER DATA TO UNDERSTAND SHARED WATER CHALLENGES AND WATER RISKS, IMPACTS AND OPPORTUNITIES

To ensure that the site gathers data on its water use and its catchment context and that the site uses these data to understand its shared water challenges as well as its contributions to these challenges, water risks, impacts, and opportunities. This information also informs the development of the site’s water stewardship strategy and plan (Step 2) and guides the actions (Step 3) necessary to fulfil the site’s commitments

*Step 2*  
COMMIT AND  
PLAN

02

### COMMIT AND PLAN

To ensure there is sufficient leadership support, site authority, and allocated resources for the site to implement the AWS Standard. It focuses on how a site will act on shared water challenges and improve its performance and the status of its catchment in terms of the AWS water stewardship outcomes. Step 2 links the information gathered in Step 1 to the actions implemented in Step 3, by describing who will do what and when.

*Step 3*  
IMPLEMENT

03

### IMPLEMENT THE SITE’S STEWARDSHIP PLAN AND IMPROVE IMPACTS

To ensure that the site is implementing the plan outlined in Step 2, mitigating risks and driving actual improvements in performance.

*Step 4*  
EVALUATE

04

### EVALUATE THE SITE’S PERFORMANCE

To review a site’s performance against the actions taken in Step 3, learn from the results – both intended and unintended – and inform the next iteration of the site’s water stewardship plan. This evaluation shall occur at least annually, but sites should consider more frequent evaluations.

*Step 4*  
COMMUNICATE  
& DISCLOSE

05

### COMMUNICATE ABOUT WATER STEWARDSHIP AND DISCLOSE THE SITE’S STEWARDSHIP EFFORTS

To encourage transparency and accountability through communication of performance relative to commitments, policies, and plans. The disclosure of relevant information allows others to make informed opinions on a site’s operations and tailor their involvement to suit.

# WATER STEWARDSHIP COMMITMENT AND STRATEGY



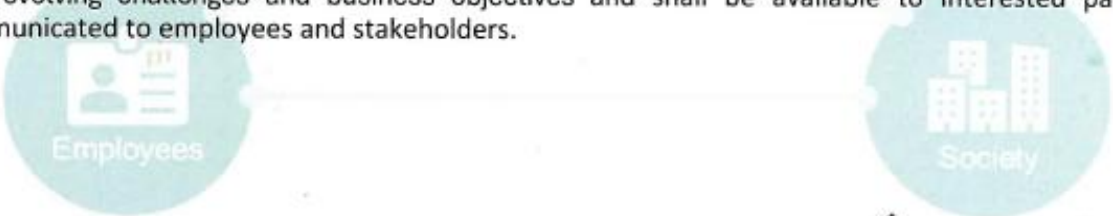
## Water Stewardship Commitment

JTI International Asia Manufacturing Corp. recognizes water as a critical shared resource essential to our operations, communities, and the environment. Guided by the Alliance for Water Stewardship (AWS) Standard, this Policy sets out our commitment to responsible water use and collaborative action to protect water resources and support long-term sustainability.

The management and employees of the organization are devoted to continuously improve our performance in line with Alliance for Water Stewardship Standard, and in support of this commitment, JTI-AMC shall undertake the following:

- Understanding our water context by collecting and analyzing water use and catchment data to identify shared water challenges, risks, impacts, and opportunities.
- Leading and planning responsibly by ensuring strong leadership, clear accountability, and adequate resources to develop water stewardship plans that address shared challenges and improve site and catchment outcomes.
- Acting to improve water outcomes by implementing stewardship plans through measures that mitigate risks, enhance efficiency and quality, and deliver positive impact in the catchment.
- Regularly monitor and assess water stewardship performance to learn from outcomes and drive continual improvement.
- Being transparent and accountable by openly communicating and disclosing water stewardship commitments, actions, and results to stakeholders.

The Policy is reviewed annually or as deemed necessary to ensure continued relevance and alignment with evolving challenges and business objectives and shall be available to interested parties, communicated to employees and stakeholders.



**Ali Fereidouni**  
EHS Director

**Yagci Caglayan**  
Engineering Director

**Amir Vajdi**  
Factory Lead Philippines



# WATER STEWARDSHIP COMMITMENT AND STRATEGY



## 1. MISSION, VISION, AND COMMITMENTS

### Long-Term Vision

Aligned with JTI's global belief in "Protecting the Planet," JT International AMC commits to achieving and maintaining full compliance (100%) with the Alliance for Water Stewardship (AWS) Standard at its Philippines facility. By doing so, JTI aims to become an industry leader that actively contributes to the long-term sustainability, resilience, and vitality of the biodiversity and local water catchment area. This vision is supported by measurable environmental gains, such as 35% water withdrawal reduction by the end of 2030 as JTI Global Target.

### Strategic Mission

In line with JTI's global commitment to minimizing the social and environmental impact of its value chain, products, and services, JT International AMC core objective is to certify the AMC facility under the AWS Standard by the end of 2026 and implement good water stewardship practices. This mission involves locally executing the following key global commitments:

- 1. Ensuring sustainable water balance, superior water quality, and collaborative governance within our operational boundaries and the shared water catchment area.
- 2. Executing actions to protect water, minimize waste and wastewater, enhance biodiversity, and promote sustainable agriculture.



# MANAGEMENT STRUCTURE

## AWS Team Structure



# WATER RELATED ROLE & RESPONSIBILITY

| No | Position in JTI AMC             | Name                     | Role related to compliance with water related laws and regulations                                                                                                                                                                                         | Remarks                                 |
|----|---------------------------------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1  | Engineering Director            | Caglayan Yagci           | Leads all Engineering related activities                                                                                                                                                                                                                   | Report to Factory Lead                  |
| 2  | Utilities & Energy Manager      | Victor Amor Murillo      | Oversee Utilities and Energy Operation                                                                                                                                                                                                                     | Report to Engineering Director          |
| 3  | Utilities and Energy Supervisor | Christian Louie Pamplona | Responsible for monitoring and improvement in the energy consumption                                                                                                                                                                                       | Report to Utilities & Energy Manager    |
| 4  | Building and Facility Manager   | Raymart Magsakay         | Oversee Building Facility and Wastewater Treatment Operation                                                                                                                                                                                               | Report to Engineering Director          |
| 5  | Building and Facility Engineer  | Maria Danica Alulod      | Responsible for Wastewater Treatment Operation                                                                                                                                                                                                             | Report to Building and Facility Manager |
| 6  | EHS Director                    | Ali Fereidouni           | Leads all EHS related activities                                                                                                                                                                                                                           | Report to Factory Lead                  |
| 7  | EHS Manager                     | Glenn Leandrew Pitogo    | Ensure all business activities complies with all of Safety, Health and Environmental regulation, global direction and international standards.                                                                                                             | Report to EHS Director                  |
| 8  | EHS Engineer/ PCO               | Edison Gonzalvo          | Supports EHS Manager to ensure all of business activities are complied with all applicable environmental regulation, global directive and international standards. Coordinate to all stakeholders if there is/are noncompliance or trend of noncompliance. | Reports to EHS Manager                  |

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# 2025 WATER STEWARDSHIP

JT International AMC • 2025 PERFORMANCE •

01

## WATER WITHDRAWAL

**124,138 m<sup>3</sup>** actual vs **≈145,600 m<sup>3</sup>** target

85.24% of plan • 14.76% below target

02

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## WATER REUSE / RECOVERY

**9%** 2025 reported recovery

Higher than the 6% 2025 recovery target

03

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## WWTP COMPLIANCE

**100%** compliant

60 / 60 monthly checks within limits across 5 parameters

04

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## STAKEHOLDER ENGAGEMENTS

**100%** complete

Planned engagement completed Sep 2026 • status: Done

05

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## WSP PROJECT DELIVERY

**10 / 14** projects completed

71% delivered • 1 on hold • 3 planned

# ALLIANCE FOR WATER STEWARDSHIP

## Water Stewardship Plan Summary

| No | Classification to AWS Outcomes       | Risks & Challenges (Shared water challenges)                                            | Risk to Business                       | Strategic goal                | Action Plan & Best Practice                                                                                                                                                                      | Target                                                              | How it will be measured                                                                                                                                      | Schedule | Real Implementation/ Completion | Related Stakeholders/ PIC                                                                                      | Evaluation                                                                                                                                                                   | Effectiveness Engagement | Status      | Relevant information, Lesson Learnt                                                                                                                                                                                                                                                                                     | Mitigation                                                                                                                                                                                                                                                                                 |
|----|--------------------------------------|-----------------------------------------------------------------------------------------|----------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|---------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | GOOD WATER BALANCE                   | High water consumption                                                                  | Water supply and cost risk             | Water conservation            | Use WWTP RO permeate for cooling tower operations                                                                                                                                                | 30 cubic meter water recovery/recycled water produced per day       | 100% utilization of RO permeate(output) 45% for cooling tower makeup tank .55% WWTP operation                                                                | Q3 2021  | Feb-22                          | Internal - Engineering                                                                                         | Achieved 30 m <sup>3</sup> /day of RO permeate reuse for cooling-tower makeup, reducing freshwater demand and supporting Good Water Balance.                                 | 100%                     | Done        | Using WWTP RO permeate as cooling tower makeup demonstrated that treated wastewater can replace a significant portion of fresh-water demand when permeate quality or volume is outside operating limits.                                                                                                                | Maintain routine checks of permeate conductivity, flow and storage level; retain an automatic or manual freshwater backup when permeate quality or volume is outside operating limits.                                                                                                     |
| 2  | GOOD WATER QUALITY STATUS            | High conductivity and hardness levels in effluent                                       | Water quality and compliance risk      | Good water quality status     | Install an activated carbon filter and multimedia filtration system                                                                                                                              | Reduced the Conductivity by at least 50% from1000µS ( effluent)     | Conductivity of WWTP RO Permeate(output) is <500µS                                                                                                           | Q3 2021  | Feb-22                          | Internal - Engineering                                                                                         | Filtration reduced conductivity by at least 85% and maintained permeate below 500 µS, improving effluent quality and reducing downstream water-quality risk.                 | 100%                     | Done        | Activated carbon and multimedia filtration improved pretreatment performance and supported lower conductivity; consistent media condition and operating flow are essential to maintain permeate below 500 µS.                                                                                                           | Establish differential-pressure and water-quality limits, perform scheduled backwashing and media replacement, and divert off-spec water until acceptable conductivity is restored.                                                                                                        |
| 3  | GOOD WATER BALANCE                   | High water consumption                                                                  | Water consumption and cost risk        | Water conservation            | Replace the RO filtration system with a water softening system                                                                                                                                   | Reduced the water consumption up to 50% in Boiler consumption       | 1,500 cubic meter per month reduction in water consumption of the Boiler system                                                                              | Q2 2024  | Nov-24                          | Internal - Engineering                                                                                         | Softener conversion reduced water withdrawal by about 1,000 m <sup>3</sup> /month and reject water to 1.2%, with estimated annual O&M savings of about USD 21.6K.            | 100%                     | Done        | Replacing RO filtration with softener filtration reduced reject-water generation and showed that treatment technology should be matched to the boiler feed-water requirement rather than applying RO by default.                                                                                                        | Monitor hardness, conductivity, regeneration frequency and boiler blowdown; keep critical softener spares and a contingency connection available to prevent off-spec boiler feed water.                                                                                                    |
| 4  | SUSTAINABLE WATER BALANCE            | Increased water withdrawal                                                              | Water efficiency and cost risk         | Water-use efficiency          | Implement the Fire Suppression Water Recycling Project                                                                                                                                           | Recycle 75% of the total water consumption for firepro              | 40 cubic meter/ month water returned to firepro system                                                                                                       | Q3 2025  | Sep-25                          | Internal - Engineering                                                                                         | The project recycled 40 m <sup>3</sup> /month of fire-suppression testing and leakage water, reducing freshwater withdrawal and supporting a sustainable water balance.      | 100%                     | Done        | The reused water is not only come from the wasted water during the testing but also teh leakages coming from packing gland.                                                                                                                                                                                             | Collection of water from the storm drain line direct to filtration system.                                                                                                                                                                                                                 |
| 5  | GOOD WATER QUALITY STATUS            | Effluent water quality                                                                  | Wastewater compliance risk             | Good water quality status     | Install a diffuser and blower in the holding tank to improve aeration                                                                                                                            | Increase the wastewater treatment capacity from 90to 150cmd         | 10% COD reduction rate                                                                                                                                       | Q1 2026  | Aug-25                          | Internal - Engineering                                                                                         | The WWTP upgrade achieved the 90-to-150 m <sup>3</sup> /day capacity target and improved effluent quality, supporting regulatory compliance and treatment reliability.       | 100%                     | Done        | As aeration has been created in the holding tank , it also helps not to upset the system due to the surfactant                                                                                                                                                                                                          | Retain the existing aeration. Sampling of the influent.,                                                                                                                                                                                                                                   |
| 6  | GOOD WATER BALANCE                   | High water consumption                                                                  | Treatment capacity and compliance risk | Water conservation            | Install an additional clarifier                                                                                                                                                                  | Wastewater Treatment capacity of ≥170 cubic meter                   | Treatment capacity increased from 90 to 170cmd                                                                                                               | Q4 2025  | Aug-25                          | Internal - Engineering                                                                                         | The added clarification capacity supported the WWTP upgrade and effluent-quality improvement; documented performance indicates the program targets were achieved.            | 100%                     | Done        | The COD has been reduced and it also helps to increase the lifespan of the UF membrane.                                                                                                                                                                                                                                 | Provision of bypass valve for both clarifiers. If 1 clarifier is not enough, the operator can make the 2 clarifiers in series to mitigate the carry over.                                                                                                                                  |
| 7  | GOOD WATER BALANCE                   | High water consumption                                                                  | Water recovery and cost risk           | Water conservation            | Improve the AHU condensate recovery system                                                                                                                                                       | 100% recovery of the AHU condensate                                 | 2% increased in the water recovery                                                                                                                           | Q4 2025  | Jan-26                          | Internal - Engineering                                                                                         | AHU condensate recovery increased the site water-recovery rate to 17%, reducing freshwater demand and supporting the Good Water Balance outcome.                             | 100%                     | Done        | Increased the JTI recovery rate up to 17 % recovery.                                                                                                                                                                                                                                                                    | Installation of back up pump.                                                                                                                                                                                                                                                              |
| 8  | SUSTAINABLE WATER BALANCE            | High water consumption                                                                  | Water supply and cost risk             | Important water-related areas | Recycle treated WWTP water for use in the water scrubber                                                                                                                                         | Reduce Water scrubber water withdrawal                              | Cubic meter per month savings                                                                                                                                | Q1 2028  | HOLD                            |                                                                                                                |                                                                                                                                                                              |                          |             |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |
| 9  | IWRA                                 | Hygiene and safety                                                                      | Community access and reputational risk | IWRA                          | Construct and install two rainwater catchment systems in Barangays Luta Norte and Luta Sur, Malvar, Batangas                                                                                     | Provision of two rainwater catchment tank                           | 100% completion                                                                                                                                              | Q3 2025  | Aug-25                          | External - MENRO, Municipality of Malvar                                                                       | Two rainwater catchments were installed as planned, providing an alternative water source and reducing reliance on purchased potable water for the two communities.          | 100%                     | Done        | The two community rainwater catchments showed that locally coordinated infrastructure can improve access to alternative water and reduce dependence on purchased potable water; savings still need documented validation.                                                                                               | Assign local custodians, inspect tanks, gutters and first-flush devices regularly, test water quality for the intended use, and maintain a backup potable-water source during dry periods or maintenance.                                                                                  |
| 10 | WATER, SANITATION AND HYGIENE (WASH) | Water scarcity                                                                          | Community health and reputational risk | WASH                          | Provide 40 water filtration systems                                                                                                                                                              | support access to clean water to atleast 12% of household community | 327 household beneficiary of the access to clean water                                                                                                       | Q3 2025  | Aug-25                          | External - MENRO, Municipality of Malvar                                                                       | Forty filtration systems were provided to 327 households, benefiting nearly 1,500 people and improving community access to cleaner water.                                    | 100%                     | Done        | Providing 40 filtration systems expanded access to cleaner water, while sustained benefit depends on correct use, timely filter replacement and verification of the volume and quality supplied.                                                                                                                        | Keep a beneficiary and maintenance register, train users, define filter-replacement intervals, conduct periodic water-quality testing, and replace or isolate any unit that fails the required standard.                                                                                   |
| 11 | GOOD GOVERNANCE                      | Gaps in stakeholder engagement and incomplete identification of shared water challenges | Governance and regulatory risk         | Good governance               | Engage LIMA Land, Lima Water, and relevant government and infrastructure stakeholders (LLDA, MENRO, PENRO, LGU, and the infrastructure owner) to identify and understand shared water challenges | Understand the Shared Water Challenges                              | 100% Percentage of engagement                                                                                                                                | Q1 2026  | Sep-25                          | External - LIMA Land, Lima Water, LLDA, MENRO, PENRO, LGU and infrastructure owner; Internal - B&F Engineering | Stakeholder engagement reached 100% completion and improved coordination, ownership, and follow-up of shared water challenges, supporting the Good Water Governance outcome. | 100%                     | Done        | Cross-sector engagement improved visibility of shared water challenges and reinforced the AWS Good Water Governance outcome; clear owners, documented discussions and follow-up records are needed to sustain accountability.                                                                                           | Maintain the stakeholder register, conduct at least quarterly reviews, track each action with an owner, due date and evidence, and escalate unresolved shared water risks to site management and the relevant external authority.                                                          |
| 12 | GOOD WATER QUALITY STATUS            | Water quality                                                                           | Water quality and equipment risk       | Water quality                 | Install activated carbon and multimedia filters to pretreat cooling tower and boiler blowdown water                                                                                              | Eliminate the chlorine content in the water                         | 0 mg/L reading in the chlorine                                                                                                                               | Q3 2026  |                                 | Internal - Engineering                                                                                         |                                                                                                                                                                              |                          | In progress | Installing ACF and MMF as pretreatment for cooling-tower and boiler blowdown demonstrated that chlorine removal depends on media condition, contact time and stable flow; routine outlet testing is required to confirm 0 mg/L.                                                                                         | Monitor inlet and outlet chlorine and differential pressure; backwash and replace media based on defined limits; divert off-spec water and retain bypass or backup treatment during maintenance.                                                                                           |
| 13 | GOOD WATER BALANCE                   | High water consumption                                                                  | Water balance and discharge risk       | Water balance                 | Treat 100% of utility blowdown water                                                                                                                                                             | Increase of the water recovery                                      | Increase the recovery up to 80 cubic meter per day from 60 cubic meter per day by adding utilities blowdown in the wastewater influent. ( average per month) | Q3 2026  |                                 | Internal - Engineering                                                                                         |                                                                                                                                                                              |                          | In progress | Routing utilities blowdown to the WWTP can increase water recovery from 60 to 80 cubic meters per day, provided influent quality and hydraulic loading remain within the treatment capacity.                                                                                                                            | Trend blowdown flow, pH, conductivity, temperature and COD; control the feed rate, isolate off-spec streams, and retain diversion or storage capacity to prevent WWTP upset or overflow.                                                                                                   |
| 14 | GOOD WATER BALANCE                   | High water consumption                                                                  | Water efficiency risk                  | Water balance                 | Tann Philippines Inc., a vendor within the same catchment, uses automatic taps and a constant-pressure booster pump to reduce water consumption                                                  | 3500 SQM/ m <sup>3</sup>                                            | Annual rate for sqm per cubic meter                                                                                                                          | Q1 2026  |                                 | External - Supplier                                                                                            |                                                                                                                                                                              |                          | In progress | Tann Philippines Inc. demonstrated that automatic taps and a constant-pressure booster pump can reduce unnecessary water use by controlling tap run time and maintaining only the pressure required by demand.The effectiveness of this actions could be a best benchmark for the JTI AMC continuous water initiatives. | Establish a baseline and monitor monthly water use, pressure and the sqm/m <sup>3</sup> efficiency rate; pilot the controls before full rollout, set pressure limits, inspect sensors and leaks routinely, maintain critical spares, and retain manual operation during equipment failure. |
| 15 |                                      |                                                                                         |                                        |                               |                                                                                                                                                                                                  |                                                                     |                                                                                                                                                              |          |                                 |                                                                                                                |                                                                                                                                                                              |                          |             |                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                            |



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# ALLIANCE FOR WATER STEWARDSHIP

## Water Stewardship Plan Summary

### ❖ Main Focus Areas

#### 1. Sustainable Water Balance

##### *Risks:*

- Increasing water withdrawal and high water consumption in operational processes may reduce water availability and increase dependence on freshwater sources.

##### *Actions:*

- JTI AMC implemented several water conservation and reuse projects, including the Fire Suppression Water Recycling Project, utilization of WWTP RO permeate for cooling tower operations, replacement of the boiler RO system with a softener filtration system, and the AHU Condensate Recovery Project. A future project to recycle treated wastewater for water scrubber operations has also been identified.

##### *Results:*

The actual water withdrawal for 2025 is 14.76% lower than the plan. Achieved 9% water recovery .

#### 2. Good Water Quality Status

##### *Risks:*

- Potential deterioration of wastewater quality due to elevated COD, conductivity, hardness, and increased wastewater generation may impact treatment performance and regulatory compliance.

##### *Actions:*

- JTI AMC upgraded its wastewater treatment plant (WWTP) through the installation of aeration equipment in the holding tank, construction of an additional clarifier to increase treatment capacity, and implementation of activated carbon and multimedia filtration systems to improve water quality.

##### *Results:*

Increased WWTP capacity from 90 CMD to 170 CMD, improved effluent quality, reduced COD levels, and strengthened compliance with discharge requirements.



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# ALLIANCE FOR WATER STEWARDSHIP

## Water Stewardship Plan Summary

### 3. Important Water –Related Areas (IWRA)

#### *Risks:*

- Communities within the catchment area may experience water scarcity and limited access to alternative water sources, particularly during dry periods.

#### *Actions:*

- JTI AMC collaborated with local stakeholders and government representatives to construct rainwater catchment systems in Barangays Luta Norte and Luta Sur, Malvar, Batangas.

#### *Results:*

- Improved community water resilience, reduced dependence on purchased water, and strengthened local stakeholder engagement.

### 4. Water, Sanitation and Hygiene ( WASH )

#### *Risks:*

- Limited access to safe and reliable drinking water in the local communities within the catchment area. Communities may experience water scarcity and limited access to alternative water sources, particularly during dry periods.

#### *Actions:*

- JTI AMC supported the installation of 40 water filtration systems and implemented community rainwater harvesting projects to improve access to safe and reliable water sources.

#### *Results:*

- Improved access to safe drinking water, enhanced sanitation conditions, and increased water security for beneficiary communities.



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# ALLIANCE FOR WATER STEWARDSHIP

## Water Stewardship Plan Summary

JTI AMC has allocated budget and resources for water stewardship projects, with the majority invested in Sustainable Water Balance initiatives focused on water reuse, recovery, and conservation. Most projects have been successfully completed and achieved their intended objectives, resulting in improved water efficiency, enhanced wastewater treatment performance, and strengthened community water access. Planned projects such as the Water Scrubber Reuse Project will further increase water circularity and reduce freshwater demand.

### Conclusion

- Water balance projects significantly reduced freshwater consumption and increased water reuse across site operations.
- Wastewater treatment improvements enhanced effluent quality, increased treatment capacity, and strengthened regulatory compliance.
- Community-based IWRA and WASH projects improved access to safe water and strengthened stakeholder collaboration within the catchment.
- Overall, the Water Stewardship Plan demonstrates JTI AMC's commitment to sustainable water management, operational efficiency, and positive community impact in support of AWS outcomes.



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# ALLIANCE FOR WATER STEWARDSHIP

## Good Water Governance

We are compliant with regulations and policies by the government. Our efforts in implementing alliance for water stewardship are based on existing regulations, such as:

1. Republic Act No. 9275 – Philippine Clean Water Act
2. DENR Administrative Order No. 2005-10 - Implementing Rules and Regulations of RA 9275
3. DENR Administrative Order 2016- 08 - Water Quality Guidelines and General Effluent Standard of 2016
4. DENR Administrative Order No. 2021-19 – Amendment to DAO 2016 – 08
5. Philippine National Standards for Drinking Water (PNSDW) 2017 and applicable rules and regulations
6. Wastewater Discharge Permit Requirements
7. Environment Compliance Certificate (ECC) Conditions
8. EMB Memorandum Circular No. 012, Series of 2016 – Approved Methods of Analysis for Water and Wastewater
9. LLDA Wastewater and Environmental Regulations
10. PD 856 – Sanitation Code of the Philippines
11. National Building Code and National Plumbing Code

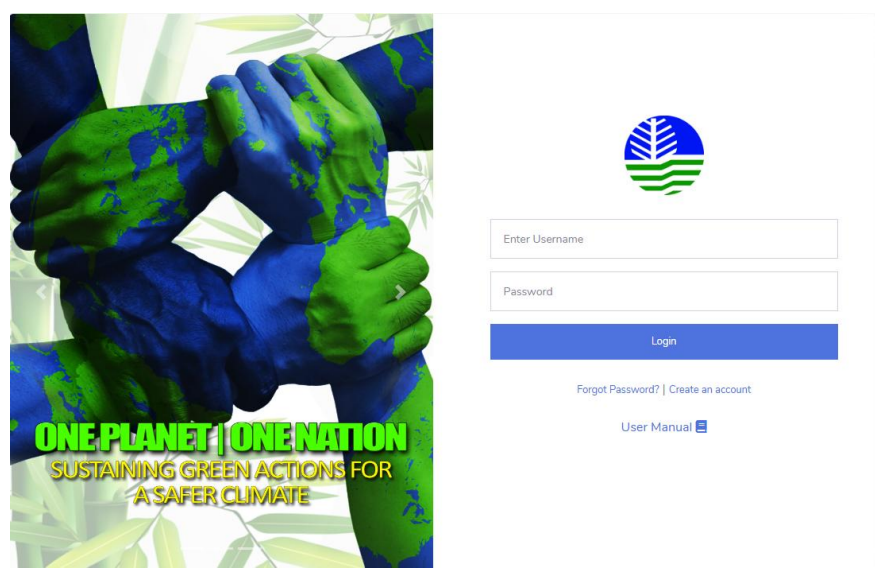
JTI AMC places regulatory compliance at the core of its operations, ensuring that water stewardship initiatives align with applicable Philippine laws, permits, standards, and local environmental requirements. This commitment provides the foundation for responsible water use, pollution prevention, and continual improvement.

At the site level, compliance is embedded through water-use monitoring, wastewater treatment controls, effluent testing, discharge permitting, and adherence to Environmental Compliance Certificate conditions. These measures help protect receiving water bodies, maintain operational accountability, and strengthen water efficiency.

JTI AMC reinforces this approach through regular reporting, risk review, and collaboration with regulators and local authorities. By combining compliance with shared action, AMC supports resilient water resources and sustainable outcomes within its operating environment.

# ALLIANCE FOR WATER STEWARDSHIP

## Good Water Governance



Within the Philippine regulatory framework, Self-Monitoring Report (SMR) reporting serves as an effective tool for helping industries demonstrate compliance with applicable water regulations and related environmental requirements. It also provides a structured record of environmental performance, enabling companies and regulators to monitor water-related impacts, document compliance actions, and support continuous improvement in responsible water stewardship.

Each quarter, the SMR translates regulatory compliance into a clear and documented account of the site’s water and environmental performance. It captures water consumption and sources, wastewater generation, treatment systems and costs, effluent quality monitoring results, and—where required by the ECC—ambient water quality monitoring, together with Environmental Management Plans or programs and records of any environment-related accidents or emergencies.

# ALLIANCE FOR WATER STEWARDSHIP

## Sustainable Water Balance

JTI monitors water consumption across the site as part of maintaining efficient factory operations and keeping demand within planned operating levels. Regular monitoring allows the factory to identify usage trends, respond to unusual changes, manage water more effectively, and support responsible consumption across production, warehouse, utilities, cleaning, and other support activities.

The chart below shows the water consumption trend for JTI AMC and the New Leaf Warehouse.



### Site Water Balance

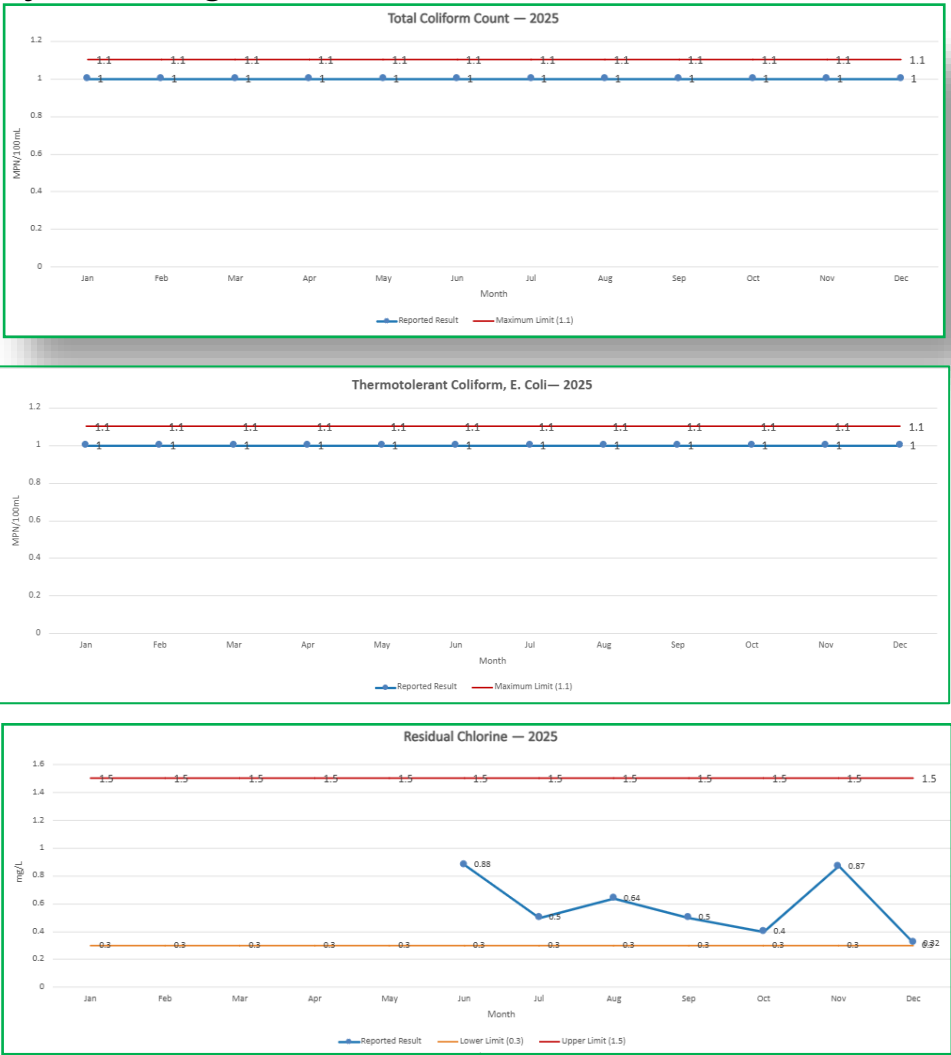
In 2025, JTI AMC recorded 124,138 m³ of water inflow. Of this, 116,145 m³ (94%) supported site operations, with HVAC accounting for the largest use at 72,492 m³ (59%). The remaining 7,993 m³ (6%) was recorded as losses, providing a clear baseline for efficiency and loss-reduction actions.

# ALLIANCE FOR WATER STEWARDSHIP

## Good Water Quality Status

### Water Quality of Site Area

For the water supply going inside the factory is also monitored based on the potability water quality in accordance with the PNSDW 2017 Limit. Below is the trend of the 2025 site water quality monitoring .



The graphs above show the trend of potable water quality entering the site and being supplied to the JTI Domestic Tank. Monitoring results for Residual Chlorine, Total Coliform, and Thermotolerant Coliform (E. coli) indicate that the incoming water supply consistently complied with the applicable potable water quality standards throughout the monitoring period. The results demonstrate maintaining safe and reliable potable water quality, supporting the site's commitment to achieving and sustaining Good Water Quality Status under the AWS framework.

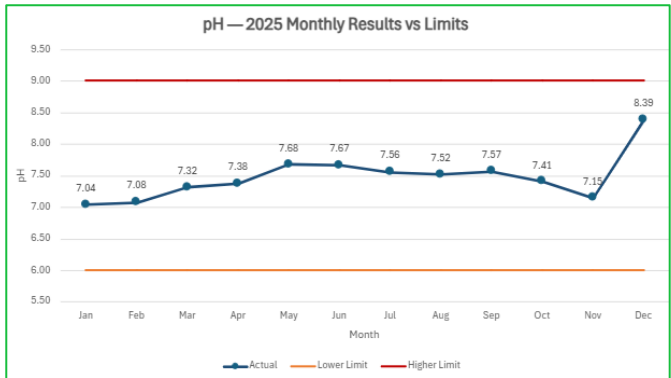
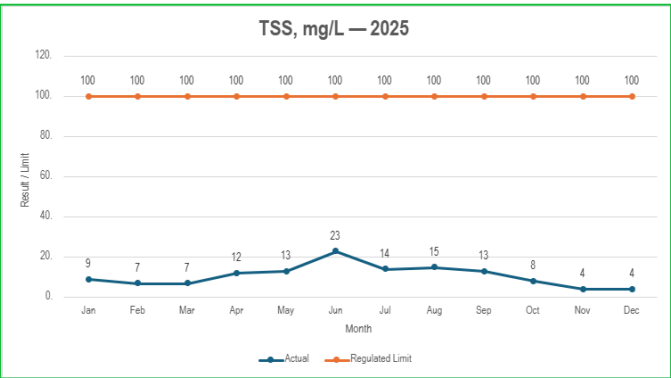
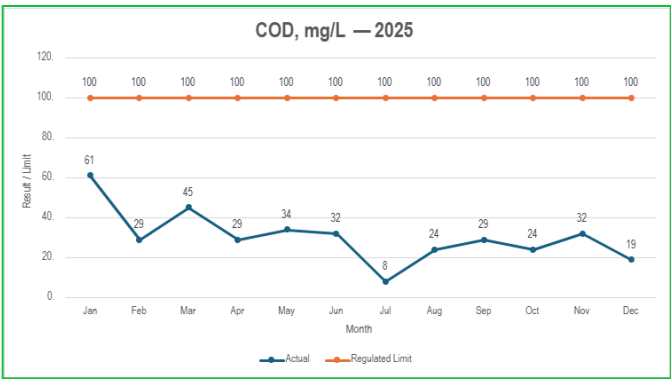
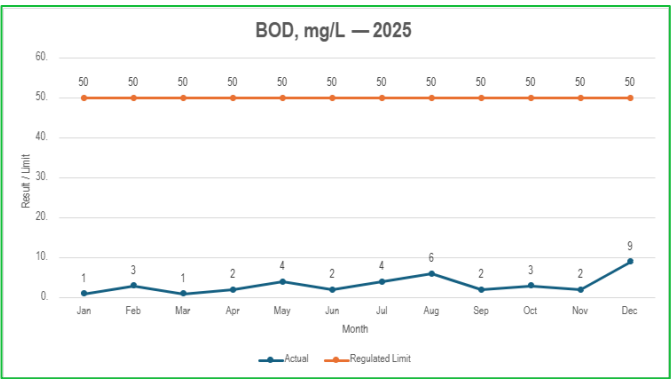
# ALLIANCE FOR WATER STEWARDSHIP

## Good Water Quality Status

### Water Quality of Site Area

This report summarizes the wastewater management controls and regulatory parameters used to assess discharges from operations within the San Juan River watershed. Because treated effluent ultimately enters the San Juan River through Tigiro Creek, the discharge pathway is managed through a defined treatment and compliance process. Effluent is first conveyed to LIMA Water for primary wastewater treatment before being released to Tigiro Creek. Compliance is assessed against the DENR Class C limits established under DAO 2016-08 and DAO 2021-19. The assessment covers 5 parameters – BOD, COD, TSS, pH, and Color – which are required for tobacco industry effluent.

### Wastewater Trend 2025 JTI International AMC

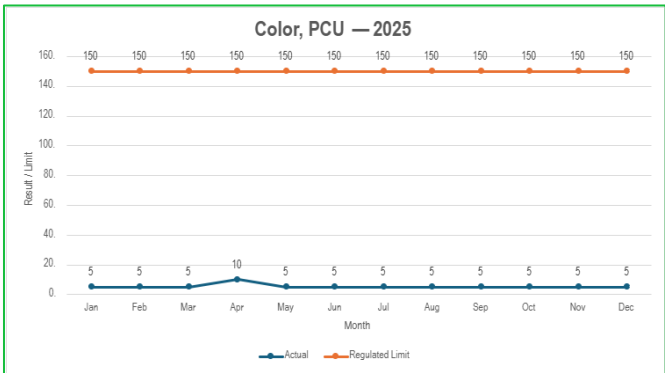


# ALLIANCE FOR WATER STEWARDSHIP

## Good Water Quality Status

### Water Quality of Site Area

Wastewater Trend 2025 JTI International AMC

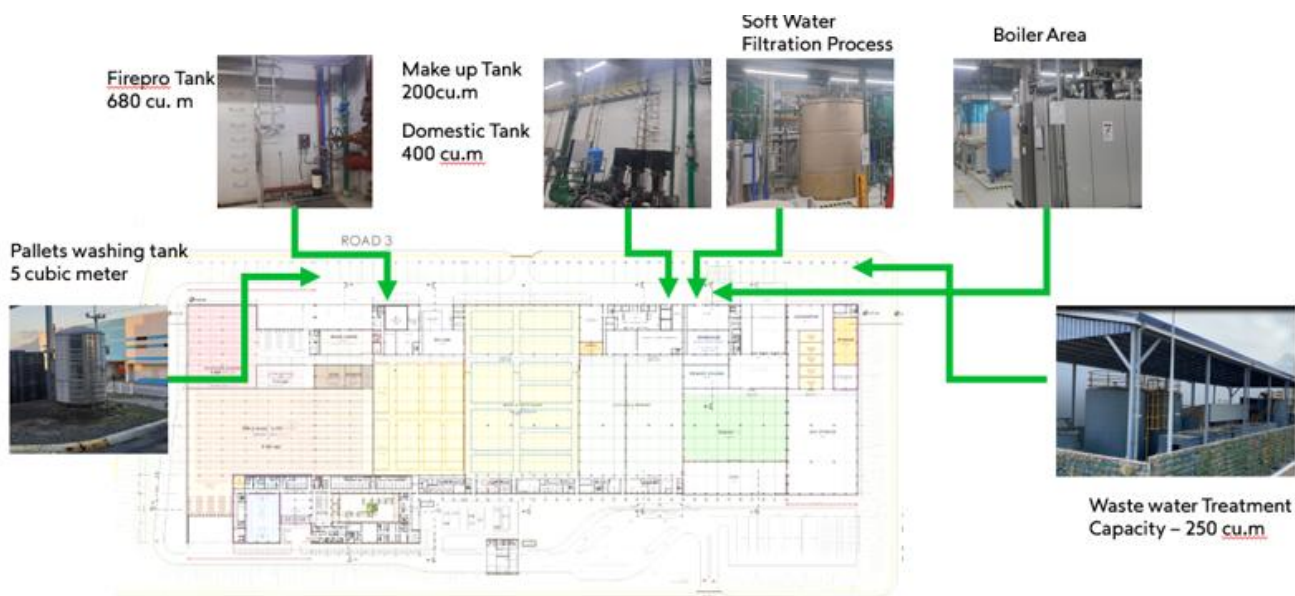


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## Important Water Related Area

| NO | IWRA Object              | Picture                                                                              | Description                                                                                                                                                                                                                                                                                      |
|----|--------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | Landscaping/JTI Park     |  | On-site landscaped atrium/green area within JTI-AMC. Water is used to maintain plants and greenery, contributing to workplace comfort, infiltration and visual environmental quality.                                                                                                            |
| 2  | LIMA Deep Well           |  | External water service provider supply well/source supporting LIMA Water and the industrial estate water supply. It is relevant to JTI-AMC because the site relies on LIMA Water for potable/utility water supply.                                                                               |
| 3  | JTI wastewater treatment |  | On-site wastewater treatment facility that treats domestic and industrial wastewater generated by JTI-AMC before discharge to the LIMA wastewater system. The WWTP is designed to ensure compliance with wastewater discharge requirements and protect downstream water bodies and stakeholders. |

## Water Related Infrastructure



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## JT International AMC Area



Location : Lot 1–10, Block 4, Phase 3  
LIMA Technology Center – Special Economic Zone  
San Fernando, Malvar, Batangas 4233, Philippines  
Coordinates : 14.052° N latitude; 121.159° E longitude

JTI AMC and New Leaf Warehouse is one integrated JTI PHP5 site within LIMA Technology Center. The surrounding industrial facilities and residential communities define the shared operating context and support a common assessment of water-related risks, impacts, infrastructure, and stewardship controls.

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## Safe Water Sanitation and Hygiene (WASH)

JTI AMC applies three WASH control areas aligned with Philippine requirements:

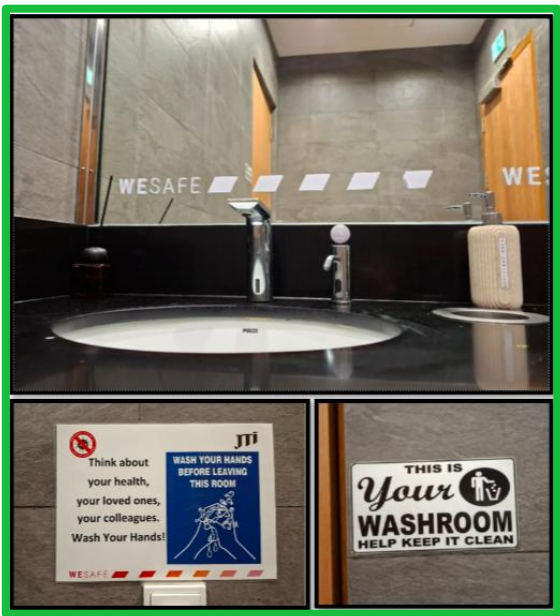
- **SAFE WATER** Potable-water quality and dependable access.
- **SANITATION** Clean, supplied toilets and handwashing points.
- **FACILITY ASSURANCE** Inspections, repairs and maintenance records.

Framework: P.D. 856 & DOH AO 2018-0017; PNSDW 2017; R.A. 11058.



WASH Facilities in JTI AMC

# Safe Water Sanitation and Hygiene (WASH)



WASH Facilities in JTI AMC

# Shared Water Challenges

| AWS Outcome   | Challenge                                                                                                                                                                                                                                                           | Opportunities                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Water Balance | Water recharge is declining as industrial and commercial development expands and green areas shrink, reducing rainfall infiltration.<br>Increased of ground water demand.                                                                                           | <b>Catchment Initiatives</b> <ul style="list-style-type: none"><li>- LLDA, PENRO and MENRO support the private industries in providing supply of plants and seeds for the tree planting activities and assess the area that needed to strengthen especially in recharge zone.</li></ul> <b>Site Initiatives</b> <ul style="list-style-type: none"><li>- Tree planting within the perimeter of JTI AMC warehouse.</li><li>- Tree planting activities near the creek/ river side along the Hill Cres Subdivision.</li><li>- Ensure compliance with applicable water codes and regulations.</li><li>- Expand site water recovery and recycling projects and track annual savings.</li></ul> |
| Water Quality | Solid waste, single-use plastics, river debris, unmanaged septage, livestock effluent, and high wastewater discharges from industrial and manufacturing facilities threaten the San Juan River and connected waterways.                                             | <b>Catchment Initiatives</b> <ul style="list-style-type: none"><li>- Support the Adopt-an-Estero clean-ups initiated by LLI and attended by LIMA Locators and representative of LLDA to remove waterway waste and improve catchment water quality.</li></ul> <b>Site Initiatives</b> <ul style="list-style-type: none"><li>- Construction of material recovery facility to help the community to have a proper storage for their solid waste.</li><li>- Complied with the DENR Effluent limits and other requirements.</li></ul>                                                                                                                                                         |
| WASH          | Inconsistent cleaning and maintenance affect public toilets; some community areas lack clearly identified, accessible facilities for persons with disabilities (PWDs). Clogged or blocked drains, poorly elevated pipes, and low-lying terrain compound flood risk. | <b>Catchment Initiatives</b> <ul style="list-style-type: none"><li>- Provision of public toilets and sufficient hospitals and clinics.</li></ul> <b>Site Initiatives</b> <ul style="list-style-type: none"><li>- Continue on-site WASH inspections and verify that sanitation facilities meet applicable requirements.</li><li>- Conduct regular septic-tank cleaning and maintenance to prevent overflow, odors, and groundwater contamination and support safe sanitation.</li></ul>                                                                                                                                                                                                   |
| IWRA          | Tree cover is declining in identified recharge zones and water-source areas because of road expansion and residential conversion.<br>Solid-waste pollution also affects tributaries of the San Juan River.                                                          | <b>Catchment Initiatives</b> <ul style="list-style-type: none"><li>- Construction of Barangay Eco-Cycle Resource Facility Project.</li><li>- Community members conduct river cleaning.</li><li>- Allocate schedule of garbage collection in each barangays</li></ul> <b>Site Initiatives</b> <ul style="list-style-type: none"><li>- Review IWRA risks annually.</li><li>- Continue the Make It Green tree-planting campaign, construction of rain and material-recovery initiatives for solid and residual waste.</li></ul>                                                                                                                                                             |
| Governance    | Shared water risks require stronger coordination among LLDA, DENR-EMB, LGUs, LIMA Water, JTI AMC, and local communities.                                                                                                                                            | <b>Catchment Initiatives</b> <ul style="list-style-type: none"><li>- LLDA established River and Watershed Management Councils to coordinate implementation of water initiatives.</li></ul> <b>Site Initiatives</b> <ul style="list-style-type: none"><li>• Scheduled engagement/meeting with internal and external stakeholders.</li></ul>                                                                                                                                                                                                                                                                                                                                               |



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# ALLIANCE FOR WATER STEWARDSHIP

## Sources:

1. Consultancy Services on the Development of Groundwater Management Plan (GMP) for Batangas City and Surroundings Area by Woodfields Consultants, Inc.
2. Vol\_19. San-Juan-SB.(pdf)
3. Volume 1: The Comprehensive Land Use Plan 2015 – 2024
4. Provincial Development & Physical Framework Plan 2022-2030 (Enhanced with Disaster Risk Reduction/ Climate Change Adaption)
5. JTI- Stakeholder Engagement Plan & Records